



**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
GETCHELL BROTHERS, INC.  
1 UNION STREET  
BREWER, MAINE**



**PREPARED FOR:**  
MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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## **EXECUTIVE SUMMARY**

Beacon Environmental Consultants, LLC (Beacon) was retained by the Maine Department of Environmental Protection (MEDEP) to conduct a Phase II Environmental Site Assessment (ESA) at the Getchell Brothers Inc., property located at 1 & 11 Union Street in the City of Brewer, Penobscot County, Maine. The purpose of the Phase II ESA was to investigate conditions at the property in order to identify and delineate areas of subsurface, groundwater, surficial, and soil gas contamination.

In 2018, Beacon performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E 1527-05 of the property.

This assessment revealed the following Recognized Environmental Conditions (RECs) associated with the Site:

- Floor drains connected to the Penobscot River;
- A hole in the floor of the freezer reconditioning room opens to the ground below and paint waste was observed in this area.

This assessment revealed the following Historic Recognized Environmental Conditions (HRECs) in connection with the property:

- One 2,000-gallon gasoline UST, one 1,000-gallon heating oil UST, one 500-gallon heating oil UST, and one 275-gallon heating oil UST were removed from the property in 1989;
- One 4,000-gallon diesel UST was removed from the property in 1994.

This assessment did not reveal Controlled Recognized Environmental Conditions (CRECs) in connection with the property.

This assessment revealed the following environmental conditions (de minimus) in connection with the property:

- Asbestos-containing materials (ACM), Lead-Based Paint (LBP), and/or Polychlorinated Biphenyls (PCBs) may be present within building components.
- Presence of refrigerant gases in chillers.

Beacon recommended:

- A Hazardous Building Materials Inventory (HBMI) be completed;
- Hazardous substances and petroleum products should be removed and properly disposed of at an appropriate disposal facility; and
- A Phase II ESA should be completed to determine if impacts to soil, groundwater, or soil gas are present on the Site.

Following review of this previous investigation, Beacon developed a Site-Specific Quality Assurance Project Plan (SSQAPP) in May 2019 to support the Phase II ESA. Between May 9 and May 16, 2019, Beacon performed the following work as part of the Phase II ESA for the Site:

- Advanced twelve (12) soil borings utilizing a Geoprobe track-mounted rig and collected (8) subsurface soil samples and one duplicate sample and four (4) surface soil sample for laboratory analysis;
- Collected two (2) surficial soil samples with a hand probe for laboratory analysis;
- Installed 1” monitoring wells at five (5) locations and collected five groundwater samples and one duplicate for laboratory analysis;
- Installed three subslab soil vapor locations and three soil vapor sample locations and collected six total soil gas samples for laboratory analysis;
- Completed an inventory of universal waste;
- Subcontracted with Atlantic Environmental Contractors, Inc. (Atlantic) for an asbestos and lead-based paint inspection of the property.

Soil and groundwater collected from Site investigations were submitted to Alpha Analytical Laboratory (Alpha) in Westboro, Massachusetts for laboratory analysis.

Soil vapor collected from Site investigations were submitted to Alpha of Mansfield, Massachusetts for laboratory analysis.

Laboratory analysis of surficial soil samples from SS-03, B-06 (and its duplicate B-13) and B-12 had concentrations of lead above the MEDEP Remedial Action Guidelines (RAGs) for Residential Scenarios. B-06 (and its duplicate B-13) also had concentrations of benzo(a)pyrene above the MEDEP RAGs for Residential Scenarios.

Laboratory analysis of subsurface soil samples from boring B-09 were elevated above the MEDEP RAGs for Residential Scenarios for lead. Laboratory analysis of subsurface soil samples from boring B-04 were elevated above the MEDEP RAGs for Residential Scenarios for benzo(a)pyrene.

Laboratory analysis of groundwater samples collected from three on-site monitoring wells MW-02, MW-06 (and its duplicate MW-13), and MW-09 reported concentrations of lead above the MEDEP RAGs for Residential Scenarios, samples collected from MW-09 also had concentrations of benzo(a)pyrene above the MEDEP Residential RAGs.

Laboratory analysis of soil vapor samples and subslab soil vapor samples were below the MEDEP RAG attenuation factor guidance for Residential and Commercial Scenarios.

Impacts were documented to be above MEDEP Residential RAGs in surficial and subsurface soil and above MEDEP Residential RAGs for groundwater. ACM, LBP and Universal Waste were identified within on-site buildings.

Beacon recommends:

- Soils on the property should be characterized and managed appropriately prior to off-site disposal based on elevated concentrations of contaminants of concern. If the soil is to be managed on-site a cover system may be required to prevent contact threat;
- If the buildings are demolished, the floor drains should be evaluated by an environmental professional;

- An Analysis of Brownfields Cleanup Alternatives (ABCA) should be completed for the property;
- A Declaration of Environmental Covenant (DEC) should be completed to include prohibition of usage of on-site drinking water without MEDEP approval; and
- Prior to demolition or renovation of on-site buildings, ACM, LBP, and Universal Waste should be managed appropriately.



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## 1.0 INTRODUCTION

This Phase II Environmental Site Assessment (ESA) was conducted by Beacon Environmental Consultants, LLC (Beacon), for the Maine Department of Environmental Protection (MEDEP). The Site Specific Quality Assurance Plan (SSQAPP) was developed in conjunction with MEDEP to address Recognized Environmental Conditions (RECs) identified in the Phase I ESA report completed by Beacon in December 2018. As a portion of this Phase II ESA, a Conceptual Site Model (CSM) and sampling plan were created to assist in guiding field activities and setting project goals.

### 1.1 Purpose

Beacon was retained by the MEDEP to conduct this Phase II ESA to investigate conditions at the Getchell Brothers, Inc. (Getchell) property in order to identify and delineate areas of surface, subsurface and groundwater and address existing data gaps from previous investigations.

### 1.2 Special Terms and Conditions

This report has been prepared for the exclusive use of the MEDEP and the City of Brewer and should not be reproduced or disseminated without the written approval of Beacon or the Client or the Program applicant. Beacon has retained a copy of this report. No additions or deletions are authorized without the written consent of Beacon. Use of this report in whole or in part by parties other than the Client or Program applicant or his/her authorized agent is prohibited.

### 1.3 Limitations and Exceptions of Assessment

The location of the buildings are considered to be a limitation to the investigation due to the potential for impacts beneath the foundation. If the foundations are removed, the area beneath the footprints should be evaluated by a qualified environmental professional to determine if further investigations are necessary.

## 2.0 BACKGROUND

### 2.1 Site Description and Features

#### Site Description and Background

The Subject Property consists of approximately 2.40 acres and is developed with an approximately 13,027 square-foot former ice making plant, an approximately 2,610 square-foot office building, and a 2,554 square foot refrigeration building with an attached 961 square foot and garage. The ground surface at the site slopes slightly to the west. Groundcover consists primarily of the buildings, paved surfaces, and vegetated areas along the northeastern boundary. The subject property can be accessed from Union Street which dead ends at the southeastern corner of the property.

Two of the buildings are being used for storage of ice making equipment and refrigeration equipment. One of the buildings is currently being used as an office building for Getchell Brothers, Inc. (see **Figure 1**, Site Location Plan). The property is currently owned by Getchell.

## 2.2 Physical Setting

The Getchell Brothers Inc. property is located at 1 & 11 Union Street in the City of Brewer, Penobscot County, Maine.. The Subject Property consists of approximately 2.40 acres and is developed with an approximately 13,027 square-foot former ice making plant, an approximately 2,610 square-foot office building, and a 2,554 square foot refrigeration building with an attached 961 square foot and garage. The ground surface at the site slopes slightly to the west. Groundcover consists primarily of the buildings, paved surfaces, and vegetated areas along the northeastern boundary. The subject property can be accessed from Union Street which dead ends at the southeastern corner of the property.

Two of the buildings are being used for storage of ice making equipment and refrigeration equipment. One of the buildings is currently being used as an office building for Getchell Brothers, Inc. Site History and Land Use

### Site History

Buildings on the property are of wood or concrete construction, and have the following interior square footage:

- **Ice Plant Building** - Located on the northern portion of the property, this is an approximately 13,027 square foot wooden and metal framed building formerly used to manufacture ice for sale. The original structure was built in 1888 and gradually added onto over time as necessitated by demand for ice grew. A 120 square foot loading platform is located on the southern side of the building. The majority of the building is one level with some small structures built onto the top and sides of the original structure.
- **Office Building** - Located in the center of the property, this structure was originally constructed in the 1950s and it is approximately 2,610 square feet in size with a 25 square foot wooden porch on the northern side of the building. The second floor of the building is used as offices for Getchell Brothers. The basement level has one office, a conference room, bathroom, and the utility room which includes the natural gas boiler and storage of records. The tax card indicated that this structure was built in 1888 but Sanborn maps indicate that it was built between 1950 and 1955.
- **Refrigeration Building** - Located on the Southern portion of the property, this structure was originally constructed in 1982 and is an approximately 2,554 square foot refrigerated building which was used for storage of ice cream and novelty frozen items. An approximately 961 square foot metal garage is connected to the northern portion of the building and used for storage of equipment and materials. This garage also includes an office area on a mezzanine level.
- **Former Pumphouse** - Located on the northeastern corner of the property this is a small wooden shed which at one time was used to pump water from the river to the Ice Plant Building. The roof has collapsed on the back side of this structure making it inaccessible.

Significant renovation occurred in the 1950s and 1980s when additions were constructed on the Ice Plant Building. In the summer of 2018, a garage structure attached to refrigeration building was demolished.

## 2.4 Adjacent Property Land Use

The site is bound to the north by New Dam Road; beyond which is undeveloped (wooded) land. To the east and south is a reclaimed gravel pit. The Site is abutted to the west by wooded land. The general setting surrounding the abutting properties is rural residential.

## 2.5 Summary of Previous Assessments

### Underground Storage Tank Removal – Getchell Brothers, Inc., Union Street, Brewer, Maine, Millett Associates, July 1994

An assessment was completed by Millett Associates (Millett). This UST was located to the west of the Cold Storage Warehouse and to the south of the Office Building. The UST was removed and soil samples collected for field analysis did not indicate contamination was present. No additional work was performed.

### Phase I ESA, Beacon, January 2018

Beacon performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Getchell Brothers, Inc. property located at 1 and 13 Union Street in Brewer, Maine.

This assessment revealed the following Recognized Environmental Conditions (RECs) in connection with the property:

- Floor drains connected to the Penobscot River;
- A hole in the floor of the freezer reconditioning room opens to the ground below and paint waste was observed in this area.

This assessment revealed the following Historic Recognized Environmental Conditions (HRECs) in connection with the property:

- One 2,000-gallon gasoline UST, one 1,000-gallon heating oil UST, one 500-gallon heating oil UST, and one 275-gallon heating oil UST were removed from the property in 1989;
- One 4,000-gallon diesel UST was removed from the property in 1994.

This assessment did not reveal Controlled Recognized Environmental Conditions (CRECs) in connection with the property.

This assessment revealed the following environmental conditions (de minimus) in connection with the property:

- Asbestos-containing materials (ACM), Lead-Based Paint (LBP), and/or Polychlorinated Biphenyls (PCBs) may be present within building components.
- Presence of refrigerant gases in chillers.

Beacon recommended:

- A Hazardous Building Materials Inventory (HBMI) be completed;



- Hazardous substances and petroleum products should be removed and properly disposed of at an appropriate disposal facility; and
- A Phase II ESA should be completed to determine if impacts to soil, groundwater, or soil gas are present on the Site.

## 3.0 Work Performed and Rationale

### 3.1 Scope of Assessment

The Scope of this Phase II ESA was to attempt to fill data gaps from previous investigations and to address the potential for contamination on the property prior to redevelopment.

### 3.2 Conceptual Site Model

#### Site Familiarity

Beacon has reviewed the ASTM-compliant Phase I ESA and Scope of Work completed by Beacon, which included Site history research and reconnaissance to identify potential Contaminants of Concern (COCs) and to serve as the basis for proposed investigations. The Phase I ESA served as the basis for development of our conceptual model for the Site.

As described in the Phase I ESA report and shown on the Site Plan, two areas of concern (AOC) and two site-wide concerns have been identified at the Site. Beacon will contact DigSafe to identify utilities in the area. The work described below focuses on identifying threats to the Site from former activities at the Site.

#### AOC 1 – Former USTs

Five USTs have been removed from the property. The gasoline and three heating oil USTs did not have assessments performed during their removals. The diesel UST was assessed but neither soil nor groundwater samples were collected during the assessment of this UST. Therefore, EPH, VPH, VOCs, and total lead are considered COCs in subsurface soils and groundwater in this area as well and assessment of the extent of petroleum using current analytical methods remains a data gap.

#### AOC 2 – Paint Waste Under the Building

Paint-related waste was observed inside of the building near a hole with a wooden lid that opens to the ground below. Therefore, EPH, VPH, VOCs, and total lead are considered COCs in subsurface soils and groundwater in these areas using current analytical methods remains a data gap.

#### Site Wide – Urban Fill

Based on the long-term development on the property, urban fill may have been brought to the property in the past. Therefore, PAHs, EPH, VPH, VOCs, and total lead are considered COCs in subsurface soils and groundwater in these areas remains a data gap.

#### Site Wide – Refrigerant Gases

Based on the historic nature of the development on the property, presence of refrigerant gases, past presence of USTs, and the potential for redevelopment on the property, soil vapor and subslab soil vapor should be investigated. Therefore, VOCs (analyzed by EPA Method TO-15) and APH are considered COCs in soil gas on the property.

Hazardous Building Materials (asbestos, PCBs, and lead) and Universal and Other Regulated Waste

Given the age of the Site buildings, it is likely that hazardous building materials are present at the Site in the form of ACM, PCB-containing building materials, and lead in paint. These hazardous building materials are therefore considered COCs for the Site building. Beacon completed a Potentially Hazardous Building Materials Investigation (PHBMI) as a portion of the Phase I ESA. This PHBMI identified universal and other regulated wastes on the property, therefore a thorough sampling of these items should be conducted for the Site buildings.

<b>SITE CONCEPTUAL MODEL SUMMARY</b>	
<b>POSSIBLE SOURCE AREAS</b>	AOC 1 – Former USTs AOC 2 – Paint Waste Area Sitewide – Urban Fill, Refrigerant Gases, Building Materials
<b>CONTAMINANTS OF CONCERN</b>	<p>AOC 1</p> <ul style="list-style-type: none"> <li>• Extractable Petroleum Hydrocarbons (EPH)</li> <li>• Volatile Petroleum Hydrocarbons (VPH)</li> <li>• Volatile Organic Compounds (VOCs)</li> <li>• Total lead</li> </ul> <p>AOC 2</p> <ul style="list-style-type: none"> <li>• Extractable Petroleum Hydrocarbons (EPH)</li> <li>• Volatile Petroleum Hydrocarbons (VPH)</li> <li>• Volatile Organic Compounds (VOCs)</li> <li>• Total lead</li> </ul> <p>Sitewide (Urban Fill)</p> <ul style="list-style-type: none"> <li>• Extractable Petroleum Hydrocarbons (EPH)</li> <li>• Volatile Petroleum Hydrocarbons (VPH)</li> <li>• Volatile Organic Compounds (VOCs)</li> <li>• Total lead</li> <li>• Polyaromatic Hydrocarbons (PAHs)</li> </ul> <p>Sitewide (Soil Gas)</p> <ul style="list-style-type: none"> <li>• APH/TO-15</li> </ul> <p>Sitewide (Building Materials)</p> <ul style="list-style-type: none"> <li>• Asbestos</li> <li>• PCBs</li> <li>• Total lead</li> </ul>
<b>POTENTIAL MEDIA AFFECTED</b>	Soil, Groundwater, Pore Water, Soil Gas, Building Materials
<b>POTENTIAL EXPOSURE ROUTES</b>	<p>Exposure pathways for contamination in soil:</p> <ul style="list-style-type: none"> <li>• Direct contact for site workers</li> <li>• Inhalation of fugitive emissions (dust) during site use</li> </ul> <p>Exposure pathways for contamination in groundwater:</p> <ul style="list-style-type: none"> <li>• Direct contact for site workers</li> </ul> <p>Exposure pathway for contaminated soil gas:</p> <ul style="list-style-type: none"> <li>• Direct contact for site workers in the breathing zone</li> </ul> <p>Exposure pathway for impacted building materials</p> <ul style="list-style-type: none"> <li>• Direct contact for site workers</li> </ul>
<b>POTENTIAL MIGRATION PATHWAYS</b>	<p>Migration pathways for contaminants:</p> <ul style="list-style-type: none"> <li>• Groundwater transport, soil vapor transport (if impacted).</li> </ul>
<b>RECEPTORS</b>	<p>For soil and groundwater, potential receptors include site workers during excavation.</p> <p>For soil vapor, potential receptors include future site occupants if impacted soil gas is discovered.</p> <p>For building materials, potential receptors include current and future site occupants if materials are disturbed.</p>

### 3.3 Deviations from Sampling Plan

The following deviations from the sampling plan were completed:

- Monitoring wells were installed on the property; therefore, pore water samples were not collected per the MEDEP's request.
- Due to the presence of a fence which had recently been installed; a soil boring utilizing the Geoprobe was not completed at location B-05. A hand auger was used instead and completed to a depth of four feet below ground surface.
- Refusal was encountered prior to groundwater at the background location (BK-B-01); therefore, no background groundwater sample was collected.
- Refusal was encountered prior to groundwater at location B-04 near the Production Building; therefore no groundwater was collected from this location.

### 3.4 Exploration, Sampling, and Test Screening Methods

Prior to initiating intrusive activities, Beacon personnel contacted DIGSAFE of Maine (DIGSAFE) to determine the location of public underground utilities on-site in the work area. Additionally, Beacon subcontracted with DigsMart of Maine (DigsMart) to complete on-site utility locating and to attempt to ascertain the previous locations of USTs. Borings B-02 and B-03 were determined by Mr. Glen Vallaincourt of DigsMart to be located within previously backfilled areas which may indicate former UST locations.

#### Soil Sampling

##### *Background*

One Geoprobe boring was completed in an attempt to collect a background groundwater sample to which on-site groundwater samples could be compared. Refusal was encountered in borings BK-B-01 (14') prior to groundwater being encountered; therefore, no groundwater sample was collected. Soil samples were field screened for volatile organics using a MiniRae 3000 photoionization detector (PID). See **Appendix B** for boring log and PID results.

##### *AOC 1 – UST Areas*

Geoprobe borings were completed by EPI on May 9, 2019 in four (4) locations (B-02, B-03, B-04, and B-10) using a Geoprobe 6627DT track-mounted rig. Borings were completed to 15 feet below ground surface (BGS). Refusal was encountered in boring B-04 (15'). Soil samples were collected from at a depth determined to be most probable location to be impacted (subsurface) from borings B-02 (10-12'), B-03 (3-4'), B-04 (8-10'), and B-10 (11-12'). These samples were based on visual observations or depth of the groundwater interface when no visual evidence was observed. Soil samples were field screened for volatile organics using a MiniRae 3000 photoionization detector (PID). See **Appendix B** for boring logs and PID results.

##### *AOC 2 – Paint Waste Area*

Due to the presence of a fence which had recently been installed; a soil boring utilizing the Geoprobe was not completed at location B-05. A hand auger was used instead and completed to a depth of four feet below ground surface with a sample collected from 0-2'

BGS for laboratory analysis. Two additional hand auger samples were collected from SS-02 and SS-03 and samples were collected for laboratory analysis from 0-2' BGS.

*Site Wide – Urban Fill*

Geoprobe borings were completed by EPI on May 9, 2019 in six (6) locations (B-06, B-07, B-08, B-09, B-11, and B-12) using a Geoprobe 6627DT track-mounted rig. Borings were completed to depths ranging from 5' to 15 feet BGS. Refusal was encountered in borings B-08 (6') and B-12 (5'). Soil samples were collected from 0-2' (surficial) from borings B-05, B-06, B-09, and B-12 and at a depth determined to be most probable location to be impacted (subsurface) from borings B-06 (12-13'), B-09 (9-10'), and B-11 (6-8'). A duplicate sample of B-06 was collected for laboratory analysis and labeled B-13 (12-13'). These samples were based on visual observations or depth of the groundwater interface when no visual evidence was observed. Soil samples were field screened for volatile organics using a MiniRae 3000 photoionization detector (PID). See **Appendix B** for boring logs and PID results.

**Groundwater Sampling**

*AOC 1 – UST Areas*

Groundwater sampling was completed by installing temporary 1" piezometers in three (MW-02, MW-03, and MW-10) of the four soil borings. Once the piezometers were installed, they were purged for up to 30 minutes with a peristaltic pump and tubing in an effort to develop and remove silt from within the sampler prior to sampling. The piezometers were sampled immediately following development for analysis of VOCs, EPH ranges and targets, VPH ranges, and total lead.

*AOC 2 – Paint Waste Area*

Due to the presence of a newly installed fence, a piezometer was not installed in this AOC.

*Site Wide – Urban Fill*

Groundwater sampling was completed by installing temporary 1" piezometers in two (MW-06 and MW-09) of the four soil borings. A duplicate of MW-06 was collected and labeled MW-13. Once the piezometers were installed, they were purged for up to 30 minutes with a peristaltic pump and tubing in an effort to develop and remove silt from within the sampler prior to sampling. The piezometers were sampled immediately following development for analysis of VOCs, SVOCs, EPH ranges, VPH ranges, and total lead.

**Soil Vapor Sampling**

*AOC 1 – UST Areas*

Beacon installed a soil vapor point at approximately 3 feet below ground surface in two locations. Teflon tubing was brought to the ground surface and the rod and ground surface were sealed with bentonite. Once this tubing was installed, Beacon took PID readings using MiniRae 3000 PID and oxygen and carbon dioxide readings with an Eagle Four-Gas Meter to evaluate whether the seal was effectively isolating ambient air from soil vapor. Beacon then collected installed one 2.7-liter SUMMA canister with a 30-minute flow controller at each location.



Soil vapor was sampled from SV-01 and SV-02 and submitted to Alpha of Mansfield, Massachusetts for analysis of APH and VOCs by EPA Method TO-15.

*AOC 2 – Paint Waste Area*

Beacon installed a soil vapor point at approximately 3 feet below ground surface in one location. Teflon tubing was brought to the ground surface and the rod and ground surface were sealed with bentonite. Once this tubing was installed, Beacon took PID readings using MiniRae 3000 PID and oxygen and carbon dioxide readings with an Eagle Four-Gas Meter to evaluate whether the seal was effectively isolating ambient air from soil vapor. Beacon then collected installed one 2.7-liter SUMMA canister with a 30-minute flow controller at this location.

Soil vapor was sampled from SV-03 and submitted to Alpha of Mansfield, Massachusetts for analysis of APH and VOCs by EPA Method TO-15.

*Site Wide – Urban Fill*

Subslab Soil Vapor Sampling

Beacon utilized Bosch Hammer Drill to drill a ½” hole in the foundation slabs (approximately 8 inches thick) of the office building, refrigeration building, and the former ice production building and ¼” Teflon tubing was inserted into the hole and sealed with modeling clay. Once this tubing was installed, Beacon took PID readings using MiniRae 3000 PID and oxygen and carbon dioxide readings with an Eagle Four-Gas Meter to evaluate whether the seal was effectively isolating ambient air from sub-slab vapor. Beacon then collected installed one 2.7-liter SUMMA canister with a 30-minute flow controller at each location.

Subslab soil vapor was sampled from SSV-01, SSV-02, and SSV-03 and submitted to Alpha of Mansfield, Massachusetts for analysis of APH and VOCs by EPA Method TO-15.

**Building Materials**

Beacon subcontracted with Atlantic Environmental Construction to complete an asbestos-containing materials inventory and with Community Concepts to complete a lead-based paint inspection utilizing an X-ray Fluorescence Device (XRF). Beacon completed an inventory of universal waste within the site buildings.

## 4.0 PRESENTATION AND EVALUATION OF RESULTS

### 4.1 Subsurface Conditions

Subsurface conditions on the property were identified as sand and gravel fill up to a depth of 6’ BGS. Beneath this layer, silty-sand and silty-clay were encountered.

Groundwater elevations were obtained by creating an arbitrary 100’ mark on the property. Elevations are included in **Table 1** below. Based on soils observed and the groundwater elevations it appears as though groundwater flows to the northwest towards the Penobscot River.

**TABLE 1  
GROUNDWATER ELEVATIONS**

MONITORING WELL	TOP OF CASING (FEET)	GROUNDWATER ELEVATION (FEET)
MW-02	101.08	90.48
MW-03	103.90	89.94
MW-06	96.08	87.54
MW-09	95.12	87.65
MW-10	108.61	94.05

## 4.2 Analytical Results

### AOC 1 – UST Area

#### Subsurface Soils

Subsurface soil samples were below the MEDEP Residential, Park User, Outdoor Worker, and Excavation Construction Worker RAGs for the samples collected at B-02 (10-12'), B-03 (3-4'), and B-10 (11-12'). Subsurface soil samples were below the MEDEP Residential, Park User, Outdoor Worker, and Excavation Construction Worker RAGs for the samples collected at B-04 (8-10') for total lead, VPH ranges, EPH ranges and compounds with the exception of Benzo(a)pyrene which exceeded the Residential RAG. See **Table 2** for analytical results.

#### Groundwater

Groundwater samples collected from the MW-02 reported elevated lead above the Maine RAGs for Residential Scenarios. Samples collected from MW-03 and MW-10 were either ND or below the RAGs for Residential and Commercial Worker RAGs for VOCs, and EPH ranges and targets and total lead. See **Table 3** for analytical results.

#### Soil Vapor

Soil vapor samples SV-01 and SV-02 were soil gas samples therefore the Indoor Air RAGs are not directly comparable to subslab soil gas samples. As such, the MEDEP has approved guidance to divide the MERAGs by 0.03 before comparing the results to the RAGs. Applying this attenuation factor to the reported results, the results were below the guidance concentrations for both Residential and Commercial Scenarios for VOCs and Petroleum Compounds and Ranges. See **Table 4** for analytical results.

### AOC 2 – Paint Waste Area

#### Surficial Soil

Surficial soil samples from SS-03 were elevated above the MEDEP Residential RAGs for lead but below Residential, Park User, Outdoor Worker, and Excavation/Construction Worker RAGs for the remainder of the analyzed compounds (VOCs, VPH, and EPH). The samples from SS-02 and B-05 were below all RAGs for the analyzed compounds. See **Table 2** for analytical results.

## Soil Vapor

Soil vapor sample SV-03 was a soil gas sample therefore the Indoor Air RAGs are not directly comparable to subslab soil gas samples. As such, the MEDEP has approved guidance to divide the MERAGs by 0.03 before comparing the results to the RAGs. Applying this attenuation factor to the reported results, the results were below the guidance concentrations for both Residential and Commercial Scenarios for VOCs and Petroleum Compounds and Ranges. See **Table 4** for analytical results.

## **Site Wide – Urban Fill**

### Surficial Soil

Surficial soil samples from B-06 were elevated above the MEDEP Residential RAGs for lead and benzo(a)pyrene but below Residential, Park User, Outdoor Worker, and Excavation/Construction Worker RAGs for the remainder of the analyzed compounds (VOCs, SVOCs, VPH ranges, and EPH ranges). Surficial soil samples from B-12 were elevated above the MEDEP Residential RAGs for lead but below Residential, Park User, Outdoor Worker, and Excavation/Construction Worker RAGs for the remainder of the analyzed compounds (VOCs, SVOCs, VPH ranges, and EPH ranges). The samples from B-09 were below all RAGs for the analyzed compounds (total lead, VOCs, SVOCs, VPH ranges and EPH ranges). See **Table 2** for analytical results.

### Subsurface Soils

Subsurface soil samples were below the MEDEP Residential, Park User, Outdoor Worker, and Excavation Construction Worker RAGs for the samples collected at B-06 (12-13') [and its duplicate B-13 (12-13')], B-10 (11-12') and B-11 (6-8') for total lead, VOCs, SVOCs, VPH ranges and EPH ranges. Subsurface soil samples from B-09 (9-10') were elevated above the MEDEP Residential RAGs for lead but below Residential, Park User, Outdoor Worker, and Excavation/Construction Worker RAGs for the remainder of the analyzed compounds (VOCs, SVOCs, VPH ranges, and EPH ranges). See **Table 2** for analytical results.

### Groundwater

Groundwater samples collected from the MW-09 reported elevated lead and benzo(a)pyrene above the Maine RAGs for Residential Scenarios. Samples collected from MW-06 and its duplicate MW-13 reported elevated lead above the Maine RAGs for Residential Scenarios. See **Table 3** for analytical results.

### Subslab Soil Vapor

Subslab soil vapor samples SSV-01, SSV-02, and SSV-03 were soil gas samples therefore the Indoor Air RAGs are not directly comparable to subslab soil gas samples. As such, the MEDEP has approved guidance to divide the MERAGs by 0.03 before comparing the results to the RAGs. Applying this attenuation factor to the reported results, the results were below the guidance concentrations for both Residential and Commercial Scenarios for VOCs and Petroleum Compounds and Ranges. See **Table 4** for analytical results.

## **Building Components**

### Asbestos

Asbestos-Containing Materials (ACM) were identified in the Office Building, the Production Plant, and the small shed located to the east of the Production Plant. See **Appendix D** for a copy of the ACM sampling report.

**Lead-Based Paint**

Lead-Based Paint (LBP) was not identified within the Office Building or the Refrigeration Building. LBP was identified within the Production Plant. See **Appendix D** for a copy of the LBP sampling report.

**Universal Waste**

Universal Waste in the form of light bulbs and light ballasts were identified in all three on-site buildings. See **Table 5** below for an inventory.

**TABLE 5  
UNIVERSAL WASTE**

<b>PRODUCTION BUILDING</b>	
HID Bulbs	7
Fluorescent Light Bulbs	98
Light Ballasts (Possibly PCB)	57
<b>OFFICE</b>	
Fluorescent Light Bulbs	36
Light Ballasts (Possibly PCB)	12
<b>REFRIGERATION BUILDING</b>	
HID Bulbs	3
Fluorescent Light Bulbs	4
Light Ballasts (Possibly PCB)	4

**5.0 INTERPRETATION AND CONCLUSIONS**

**5.1 Recognized Environmental Condition/Potential Release Area**

Impacts were documented to be above MEDEP Residential RAGs in groundwater and in soils.

**5.2 Conceptual Model Validation/Adequacy of Investigations**

The Conceptual Site Model was validated by the documentation of impacts in groundwater and impacts in soil from possible urban fill or industrial activity on the property.

### 5.3 Absence, Presence, Degree, Extent of Target Analytes

Lead and PAH impacts due to past industrial activities were noted within surface soils and subsurface on the Subject Property. Lead and PAHs were identified in groundwater. Soil Vapor samples were below the MEDEP guidance.

### 5.4 Additional Work Performed

No additional work was performed on the property by Beacon.

### 5.5 Quality Control

#### **Lab Report L191756**

##### EPH

L191756-01: The surrogate recovery was outside the acceptance criteria for chlorooctadecane (34%); however, re-fractionation achieved a similar result: chlorooctadecane (32%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

#### **Lab Report L1919770**

L1919770-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

##### Petroleum Hydrocarbons in Air

All significant concentrations of non-petroleum VOCs detected in the TO-15 analysis were subtracted from the corresponding hydrocarbon ranges.

L1919770-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

#### **Lab Report L1919966**

##### Sample Receipt

L1919966-09: The Methanol preserved vials for Volatile Organics and VPH analyses were received leaking. An aliquot was taken from an unpreserved container and preserved appropriately.

##### Volatile Organics

L1919966-04 was analyzed as a High-Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low-Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

L1919966-09: The Trip Blank has results for toluene and acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

L1919966-15 was analyzed as a High-Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified



with an E flag, for any compound that exceeded the calibration on the initial Low-Level analysis. The results of both analyses are reported. Semivolatile Organics by SIM.

L1919966-07: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### EPH

L1919966-04 has elevated detection limits for the target analytes only due to the dilution required by the elevated concentrations of these compounds in the sample.

#### Total Metals

The WG1239585-4 Laboratory Duplicate RPD for lead (32%), performed on L1919966-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

#### Relative Percent Difference

Beacon completed a review of the duplicates collected on the property to determine Relative Percent Difference (RPD).

#### *Groundwater*

Groundwater sample MW-13 was a duplicate of MW-06. The RPD for all analytes except total lead were below 20%. Total lead had an RPD of 29.1% which is above the 20% acceptable range.

#### *Soil*

Soil sample SS-13 was a duplicate of SS-06. The RPD for all analytes except Acetone and Toluene were below 20%. Acetone had an RPD of 33.3% and Toluene had an RPD of 42.4% which are above the 20% acceptable range.

Based on our review, the data is determined to be acceptable and we believe the MEDEP and the City can rely on this data to make decisions.

### 5.6 Conclusions

Impacts were documented to be above MEDEP RAGs in soil and above MECDC MEGs for groundwater. ACM, LBP, and Universal Waste were identified within on-site buildings.

## 6.0 Recommendations

Beacon recommends:

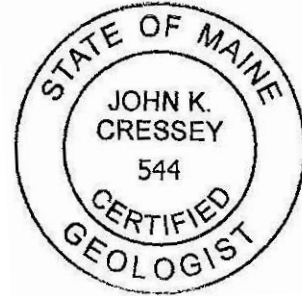
- Soils on the property should be characterized and managed appropriately prior to off-site disposal based on elevated concentrations of contaminants of concern. If the soil is to be managed on-site a cover system may be required to prevent contact threat;
- If the buildings are demolished, the floor drains should be evaluated by an environmental professional;
- An Analysis of Brownfields Cleanup Alternatives (ABCA) should be completed for the property;

- A Declaration of Environmental Covenant (DEC) should be completed to include prohibition of usage of on-site drinking water without MEDEP approval; and
- Prior to demolition or renovation of on-site buildings, ACM, LBP, and Universal Waste should be managed appropriately.

## 7.0 Signature



John K. Cressey, CG, PG  
President



**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
**GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC						AOC 1									
SAMPLE ID						B-03 (3-4')		B-04 (8-10')		B-02 (10-12')		B-10 (11-12')		SS-02 (0-2')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-01		L1919966-04		L1919966-05		L1919966-08		L1919966-11	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
<b>General Chemistry</b>															
<b>Solids, Total</b>					%	45.2		88.8		92.9		82.2		97.1	
<b>Total Metals</b>															
<b>Lead, Total</b>	140	290	440	450	mg/kg	65		77.8		3.51		6.7		8.47	
<b>Volatile Organics by EPA 5035 (VOCs)</b>															
<b>1,1,1,2-Tetrachloroethane</b>	30	410	130	480	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>1,1,1-Trichloroethane</b>	640	640	640	640	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>1,1,2,2-Tetrachloroethane</b>	8.9	88	39	150	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>1,1,2-Trichloroethane</b>	2.2	49	9.4	13	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,1-Dichloroethane</b>	53	980	230	850	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,1-Dichloroethene</b>	340	1100	1200	81	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,1-Dichloropropene</b>					mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>1,2,3-Trichlorobenzene</b>	86	240	1300	2700	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,2,3-Trichloropropane</b>	0.07	0.2	1.5	4.3	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,2,4-Trichlorobenzene</b>	86	360	380	400	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,2,4-Trimethylbenzene</b>	180	200	220	220	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,2-Dibromo-3-chloropropane</b>	0.078	1.5	0.96	3.5	mg/kg	0.016	U	0.0071	U	0.0038	U	0.005	U	0.0035	U
<b>1,2-Dibromoethane</b>	0.54	6.8	2.4	8.9	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,2-Dichlorobenzene</b>	360	370	380	380	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,2-Dichloroethane</b>	6.9	110	30	110	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,2-Dichloroethene, Total</b>					mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,2-Dichloropropane</b>	23	420	99	110	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>1,3,5-Trimethylbenzene</b>	160	170	180	180	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,3-Dichlorobenzene</b>	290	290	300	300	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,3-Dichloropropane</b>	2100	6100	32000	68000	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,3-Dichloropropene, Total</b>	27	210	120	120	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>1,4-Dichlorobenzene</b>	39	770	170	620	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>1,4-Dichlorobutane</b>					mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
<b>2,2-Dichloropropane</b>					mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>2-Butanone</b>	20000	25000	28000	11000	mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
<b>2-Hexanone</b>	290	1000	2000	300	mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
<b>4-Methyl-2-pentanone</b>	3400	3400	3400	3300	mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
<b>Acetone</b>	52000	81000	100000	98000	mg/kg	0.052	U	3	E	0.061		0.022		0.26	
<b>Acrylonitrile</b>	3.7	34	17	14	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U
<b>Benzene</b>	17	230	75	240	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>Bromobenzene</b>	380	530	650	620	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>Bromochloromethane</b>	220	4000	940	330	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>Bromodichloromethane</b>	4.4	83	19	70	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>Bromoform</b>	280	720	790	890	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U
<b>Bromomethane</b>	10	160	45	120	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>Carbon disulfide</b>	690	720	740	720	mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
<b>Carbon tetrachloride</b>	9.7	150	43	160	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>Chlorobenzene</b>	410	680	740	740	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
<b>Chloroethane</b>	2100	2100	2100	2000	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
<b>Chloroform</b>	4.7	97	21	75	mg/kg	0.0078	U	0.0035	U	0.0019	U	0.0025	U	0.0017	U
<b>Chloromethane</b>	160	1300	690	1300	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U

**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						B-03 (3-4')		B-04 (8-10')		B-02 (10-12')		B-10 (11-12')		SS-02 (0-2')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-01		L1919966-04		L1919966-05		L1919966-08		L1919966-11	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
cis-1,2-Dichloroethene	200	480	1400	1400	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
cis-1,3-Dichloropropene					mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
Dibromochloromethane	110	320	530	3000	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
Dibromomethane	35	800	150	190	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
Dichlorodifluoromethane	130	830	550	730	mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
Ethyl ether	21000	61000	100000	8100	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
Ethyl methacrylate					mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
Ethylbenzene	86	400	380	470	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
Hexachlorobutadiene	15	16	16	17	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U
Isopropylbenzene	260	270	270	270	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
Methyl tert butyl ether	690	5600	3000	8200	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
Methylene chloride	490	1200	2500	1900	mg/kg	0.026	U	0.012	U	0.0063	U	0.0084	U	0.0058	U
n-Butylbenzene	5400	15000	80000	34000	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
n-Propylbenzene	260	260	260	260	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
Naphthalene	57	1300	250	130	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U
o-Chlorotoluene	2100	6100	32000	800	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
p-Chlorotoluene	2100	6100	32000	68000	mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
p-Isopropyltoluene					mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
sec-Butylbenzene	11000	30000	100000	34000	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
Styrene	830	860	870	860	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
tert-Butylbenzene					mg/kg	0.01	U	0.0047	U	0.0025	U	0.0033	U	0.0023	U
Tetrachloroethene	120	150	160	85	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
Tetrahydrofuran	26000	100000	100000	20000	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U
Toluene	750	790	810	820	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
trans-1,2-Dichloroethene	990	1400	1800	1200	mg/kg	0.0078	U	0.0035	U	0.0019	U	0.0025	U	0.0017	U
trans-1,3-Dichloropropene					mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
trans-1,4-Dichloro-2-butene	0.11	2.5	0.48	1.8	mg/kg	0.026	U	0.012	U	0.0063	U	0.0084	U	0.0058	U
Trichloroethene	6.1	77	28	3.9	mg/kg	0.0026	U	0.0012	U	0.00063	U	0.00084	U	0.00058	U
Trichlorofluoromethane	32000	91000	100000	940	mg/kg	0.021	U	0.0095	U	0.005	U	0.0067	U	0.0046	U
Vinyl acetate	1400	2700	2700	140	mg/kg	0.052	U	0.024	U	0.012	U	0.017	U	0.012	U
Vinyl chloride	0.64	0.71	24	63	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
Xylenes, Total	260	260	260	260	mg/kg	0.0052	U	0.0024	U	0.0012	U	0.0017	U	0.0012	U
<b>Semivolatile Organics by GC/MS-SIM (SVOCs)</b>															
1-Methylnaphthalene	240	680	990	6000	mg/kg	0.052		NS		NS		NS		NS	
2-Chloronaphthalene	6500	19000	82000	48000	mg/kg	0.042	U	NS		NS		NS		NS	
2-Methylnaphthalene	330	930	4100	960	mg/kg	0.082		NS		NS		NS		NS	
Acenaphthene	4900	14000	62000	48000	mg/kg	0.042	U	NS		NS		NS		NS	
Acenaphthylene	4900	14000	45000	48000	mg/kg	0.065		NS		NS		NS		NS	
Anthracene	25000	70000	100000	100000	mg/kg	0.053		NS		NS		NS		NS	
Benzo(a)anthracene	16	45	280	1700	mg/kg	0.16		NS		NS		NS		NS	
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	0.17		NS		NS		NS		NS	
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	0.24		NS		NS		NS		NS	
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	0.12		NS		NS		NS		NS	
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	0.091		NS		NS		NS		NS	
Chrysene	1600	4500	29000	100000	mg/kg	0.17		NS		NS		NS		NS	
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	0.042	U	NS		NS		NS		NS	
Fluoranthene	3300	9300	41000	24000	mg/kg	0.34		NS		NS		NS		NS	

**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						B-03 (3-4')		B-04 (8-10')		B-02 (10-12')		B-10 (11-12')		SS-02 (0-2')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-01		L1919966-04		L1919966-05		L1919966-08		L1919966-11	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
Fluorene	3300	9300	41000	96000	mg/kg	0.042	U	NS		NS		NS		NS	
Hexachlorobenzene	3	15	14	3.4	mg/kg	0.042	U	NS		NS		NS		NS	
Hexachlorobutadiene	15	16	16	17	mg/kg	0.042	U	NS		NS		NS		NS	
Hexachloroethane	27	210	120	450	mg/kg	0.042	U	NS		NS		NS		NS	
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	0.11		NS		NS		NS		NS	
Naphthalene	57	1300	250	130	mg/kg	0.41		NS		NS		NS		NS	
Pentachlorophenol	14	40	54	190	mg/kg	0.17	U	NS		NS		NS		NS	
Phenanthrene	2500	7000	23000	72000	mg/kg	0.28		NS		NS		NS		NS	
Pyrene	2500	7000	31000	72000	mg/kg	0.31		NS		NS		NS		NS	
<b>Volatile Petroleum Hydrocarbons (VPH)</b>															
C5-C8 Aliphatics, Adjusted	1700	7500	11000	430	mg/kg	31.2	U	14.2	U	4.98	U	7.26	U	4.6	U
C9-C10 Aromatics	660	4700	3500	2600	mg/kg	31.2	U	14.2	U	4.98	U	7.26	U	4.6	U
C9-C12 Aliphatics, Adjusted	2500	17000	14000	2300	mg/kg	31.2	U	14.2	U	4.98	U	7.26	U	4.6	U
<b>Extractable Petroleum Hydrocarbons (EPH)</b>															
C11-C22 Aromatics, Adjusted	2600	7300	33000	74000	mg/kg	246		75		7.07	U	7.77	U	16	
C19-C36 Aliphatics	100000	410000	100000	100000	mg/kg	15.7		58.4		7.07	U	7.77	U	60.1	
C9-C18 Aliphatics	2500	17000	14000	4800	mg/kg	14.4	U	7.3	U	7.07	U	7.77	U	6.77	U
<b>EPH w/MS Targets (EPH)</b>															
2-Methylnaphthalene	330	930	4100	960	mg/kg	NS		0.087		0.028	U	0.031	U	0.027	U
Acenaphthene	4900	14000	62000	48000	mg/kg	NS		0.17		0.028	U	0.031	U	0.027	U
Acenaphthylene	4900	14000	45000	48000	mg/kg	NS		0.754		0.028	U	0.031	U	0.027	U
Anthracene	25000	70000	100000	100000	mg/kg	NS		0.509		0.028	U	0.031	U	0.027	U
Benzo(a)anthracene	16	45	280	1700	mg/kg	NS		2.09		0.028	U	0.031	U	0.027	U
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	NS		<b>2.27</b>		0.028	U	0.031	U	0.027	U
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	NS		3.27		0.028	U	0.031	U	0.048	
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	NS		1.45		0.028	U	0.031	U	0.029	
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	NS		1.09		0.028	U	0.031	U	0.027	U
Chrysene	1600	4500	29000	100000	mg/kg	NS		2.42		0.028	U	0.031	U	0.033	
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	NS		0.412		0.028	U	0.031	U	0.027	U
Fluoranthene	3300	9300	41000	24000	mg/kg	NS		4.67		0.028	U	0.031	U	0.063	
Fluorene	3300	9300	41000	96000	mg/kg	NS		0.259		0.028	U	0.031	U	0.027	U
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	NS		1.26		0.028	U	0.031	U	0.027	U
Naphthalene	57	1300	250	130	mg/kg	NS		0.172		0.028	U	0.031	U	0.027	U
Phenanthrene	2500	7000	23000	72000	mg/kg	NS		2.97		0.028	U	0.031	U	0.029	
Pyrene	2500	7000	31000	72000	mg/kg	NS		3.92		0.028	U	0.031	U	0.05	
<b>Notes:</b>															
1. Sample Results Comparison with Maine Residential RAGs (ME-RAGS-MR), Park User RAGs (ME-RAGS-MP), Outdoor Worker RAGs (ME-RAGS-MO), and Excavation/Construction Worker RAGs (ME-RAGS-ME) for Multiple Contaminants Criteria.															
2. mg/kg = milligrams per kilogram															
3. NS = Not Sampled															
4. U = Not Detected Above the Laboratory Detection Limit															
5. B-13 is a duplicate of B-06															
<b>186</b>	= Detected Above the Maine Residential RAGs (ME-RAGS-MR)														



**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC						AOC 2									
SAMPLE ID						SS-03 (0-2')		B-05 (0-2')		B-12 (0-2')		B-13 (12-13')		B-06 (12-13')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-12		L1919966-14		L1919966-02		L1919966-03		L1919966-06	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
<b>General Chemistry</b>															
Solids, Total					%	95		97.9		88.2		90.9		92.9	
<b>Total Metals</b>															
Lead, Total	140	290	440	450	mg/kg	218		23.2		186		6.36		5.43	
<b>Volatile Organics by EPA 5035 (VOCs)</b>															
1,1,1,2-Tetrachloroethane	30	410	130	480	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
1,1,1-Trichloroethane	640	640	640	640	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
1,1,2,2-Tetrachloroethane	8.9	88	39	150	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
1,1,2-Trichloroethane	2.2	49	9.4	13	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,1-Dichloroethane	53	980	230	850	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,1-Dichloroethene	340	1100	1200	81	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,1-Dichloropropene					mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
1,2,3-Trichlorobenzene	86	240	1300	2700	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,2,3-Trichloropropane	0.07	0.2	1.5	4.3	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,2,4-Trichlorobenzene	86	360	380	400	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,2,4-Trimethylbenzene	180	200	220	220	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,2-Dibromo-3-chloropropane	0.078	1.5	0.96	3.5	mg/kg	0.0051	U	0.0046	U	0.0076	U	0.0062	U	0.0039	U
1,2-Dibromoethane	0.54	6.8	2.4	8.9	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,2-Dichlorobenzene	360	370	380	380	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,2-Dichloroethane	6.9	110	30	110	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,2-Dichloroethene, Total					mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,2-Dichloropropane	23	420	99	110	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
1,3,5-Trimethylbenzene	160	170	180	180	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,3-Dichlorobenzene	290	290	300	300	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,3-Dichloropropane	2100	6100	32000	68000	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,3-Dichloropropene, Total	27	210	120	120	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
1,4-Dichlorobenzene	39	770	170	620	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
1,4-Dichlorobutane					mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
2,2-Dichloropropane					mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
2-Butanone	20000	25000	28000	11000	mg/kg	0.017	U	0.022		0.025	U	0.02	U	0.013	U
2-Hexanone	290	1000	2000	300	mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
4-Methyl-2-pentanone	3400	3400	3400	3300	mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
Acetone	52000	81000	100000	98000	mg/kg	0.18		0.14		0.074		0.05		0.07	
Acrylonitrile	3.7	34	17	14	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U
Benzene	17	230	75	240	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
Bromobenzene	380	530	650	620	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Bromochloromethane	220	4000	940	330	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Bromodichloromethane	4.4	83	19	70	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
Bromoform	280	720	790	890	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U
Bromomethane	10	160	45	120	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Carbon disulfide	690	720	740	720	mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
Carbon tetrachloride	9.7	150	43	160	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Chlorobenzene	410	680	740	740	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
Chloroethane	2100	2100	2100	2000	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Chloroform	4.7	97	21	75	mg/kg	0.0026	U	0.0023	U	0.0038	U	0.0031	U	0.002	U
Chloromethane	160	1300	690	1300	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U

**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
**GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						SS-03 (0-2')		B-05 (0-2')		B-12 (0-2')		B-13 (12-13')		B-06 (12-13')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-12		L1919966-14		L1919966-02		L1919966-03		L1919966-06	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
cis-1,2-Dichloroethene	200	480	1400	1400	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
cis-1,3-Dichloropropene					mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
Dibromochloromethane	110	320	530	3000	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Dibromomethane	35	800	150	190	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Dichlorodifluoromethane	130	830	550	730	mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
Ethyl ether	21000	61000	100000	8100	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Ethyl methacrylate					mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
Ethylbenzene	86	400	380	470	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Hexachlorobutadiene	15	16	16	17	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U
Isopropylbenzene	260	270	270	270	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Methyl tert butyl ether	690	5600	3000	8200	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Methylene chloride	490	1200	2500	1900	mg/kg	0.0086	U	0.0077	U	0.013	U	0.01	U	0.0065	U
n-Butylbenzene	5400	15000	80000	34000	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
n-Propylbenzene	260	260	260	260	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Naphthalene	57	1300	250	130	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U
o-Chlorotoluene	2100	6100	32000	800	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
p-Chlorotoluene	2100	6100	32000	68000	mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
p-Isopropyltoluene					mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
sec-Butylbenzene	11000	30000	100000	34000	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Styrene	830	860	870	860	mg/kg	0.0087		0.0088		0.0025	U	0.002	U	0.0013	U
tert-Butylbenzene					mg/kg	0.0034	U	0.0031	U	0.0051	U	0.0041	U	0.0026	U
Tetrachloroethene	120	150	160	85	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
Tetrahydrofuran	26000	100000	100000	20000	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U
Toluene	750	790	810	820	mg/kg	0.0017	U	0.0015		0.0025	U	0.0021		0.0013	U
trans-1,2-Dichloroethene	990	1400	1800	1200	mg/kg	0.0026	U	0.0023	U	0.0038	U	0.0031	U	0.002	U
trans-1,3-Dichloropropene					mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
trans-1,4-Dichloro-2-butene	0.11	2.5	0.48	1.8	mg/kg	0.0086	U	0.0077	U	0.013	U	0.01	U	0.0065	U
Trichloroethene	6.1	77	28	3.9	mg/kg	0.00086	U	0.00077	U	0.0013	U	0.001	U	0.00065	U
Trichlorofluoromethane	32000	91000	100000	940	mg/kg	0.0068	U	0.0062	U	0.01	U	0.0082	U	0.0052	U
Vinyl acetate	1400	2700	2700	140	mg/kg	0.017	U	0.015	U	0.025	U	0.02	U	0.013	U
Vinyl chloride	0.64	0.71	24	63	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
Xylenes, Total	260	260	260	260	mg/kg	0.0017	U	0.0015	U	0.0025	U	0.002	U	0.0013	U
<b>Semivolatile Organics by GC/MS-SIM (SVOCs)</b>															
1-Methylnaphthalene	240	680	990	6000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
2-Chloronaphthalene	6500	19000	82000	48000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
2-Methylnaphthalene	330	930	4100	960	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Acenaphthene	4900	14000	62000	48000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Acenaphthylene	4900	14000	45000	48000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Anthracene	25000	70000	100000	100000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Benzo(a)anthracene	16	45	280	1700	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Chrysene	1600	4500	29000	100000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Fluoranthene	3300	9300	41000	24000	mg/kg	NS		NS		NS		0.0072	U	0.007	U

**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						SS-03 (0-2')		B-05 (0-2')		B-12 (0-2')		B-13 (12-13')		B-06 (12-13')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-12		L1919966-14		L1919966-02		L1919966-03		L1919966-06	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
Fluorene	3300	9300	41000	96000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Hexachlorobenzene	3	15	14	3.4	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Hexachlorobutadiene	15	16	16	17	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Hexachloroethane	27	210	120	450	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Naphthalene	57	1300	250	130	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Pentachlorophenol	14	40	54	190	mg/kg	NS		NS		NS		0.029	U	0.028	U
Phenanthrene	2500	7000	23000	72000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
Pyrene	2500	7000	31000	72000	mg/kg	NS		NS		NS		0.0072	U	0.007	U
<b>Volatile Petroleum Hydrocarbons (VPH)</b>															
C5-C8 Aliphatics, Adjusted	1700	7500	11000	430	mg/kg	6.12	U	7.49	U	8.34	U	6.29	U	6.58	U
C9-C10 Aromatics	660	4700	3500	2600	mg/kg	6.12	U	7.49	U	8.34	U	6.29	U	6.58	U
C9-C12 Aliphatics, Adjusted	2500	17000	14000	2300	mg/kg	6.12	U	7.49	U	8.34	U	6.29	U	6.58	U
<b>Extractable Petroleum Hydrocarbons (EPH)</b>															
C11-C22 Aromatics, Adjusted	2600	7300	33000	74000	mg/kg	68.1		307		NS		6.94	U	6.85	U
C19-C36 Aliphatics	100000	410000	100000	100000	mg/kg	210		4160		NS		6.94	U	6.85	U
C9-C18 Aliphatics	2500	17000	14000	4800	mg/kg	6.84	U	123		NS		6.94	U	6.85	U
<b>EPH w/MS Targets (EPH)</b>															
2-Methylnaphthalene	330	930	4100	960	mg/kg	0.027	U	0.027	U	NS		NS		NS	
Acenaphthene	4900	14000	62000	48000	mg/kg	0.027	U	0.027	U	NS		NS		NS	
Acenaphthylene	4900	14000	45000	48000	mg/kg	0.027	U	0.027	U	NS		NS		NS	
Anthracene	25000	70000	100000	100000	mg/kg	0.069		0.027	U	NS		NS		NS	
Benzo(a)anthracene	16	45	280	1700	mg/kg	0.28		0.055		NS		NS		NS	
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	0.267		0.064		NS		NS		NS	
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	0.433		0.139		NS		NS		NS	
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	0.202		0.075		NS		NS		NS	
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	0.133		0.044		NS		NS		NS	
Chrysene	1600	4500	29000	100000	mg/kg	0.324		0.086		NS		NS		NS	
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	0.05		0.027	U	NS		NS		NS	
Fluoranthene	3300	9300	41000	24000	mg/kg	0.674		0.195		NS		NS		NS	
Fluorene	3300	9300	41000	96000	mg/kg	0.027	U	0.027	U	NS		NS		NS	
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	0.178		0.06		NS		NS		NS	
Naphthalene	57	1300	250	130	mg/kg	0.027	U	0.027	U	NS		NS		NS	
Phenanthrene	2500	7000	23000	72000	mg/kg	0.338		0.083		NS		NS		NS	
Pyrene	2500	7000	31000	72000	mg/kg	0.583		0.162		NS		NS		NS	
<b>Notes:</b>															
1. Sample Results Comparison with Maine Residential RAGs (ME-RAGS-MR), Park User RAGs (ME-RAGS-MP), Outdoor Worker RAGs (ME-RAGS-MO), and Excavation/Construction Worker RAGs (ME-RAGS-ME) for Multiple Contaminants Criteria.															
2. mg/kg = milligrams per kilogram															
3. NS = Not Sampled															
4. U = Not Detected Above the Laboratory Detection Limit															
5. B-13 is a duplicate of B-06															
<b>186</b>		= Detected Above the Maine Residential RAGs (ME-RAGS-MR)													

**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC						SITEWIDE									
SAMPLE ID						B-09 (9-10')		B-10 (11-12')		B-06 (0-2')		B-09 (0-2')		B-11 (6-8')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-07		L1919966-08		L1919966-10		L1919966-13		L1919966-15	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
<b>General Chemistry</b>															
Solids, Total					%	79.2		82.2		88.7		84.7		81.6	
<b>Total Metals</b>															
Lead, Total	140	290	440	450	mg/kg	164		6.7		167		6.68		9.61	
<b>Volatile Organics by EPA 5035 (VOCs)</b>															
1,1,1,2-Tetrachloroethane	30	410	130	480	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
1,1,1-Trichloroethane	640	640	640	640	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
1,1,2,2-Tetrachloroethane	8.9	88	39	150	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
1,1,2-Trichloroethane	2.2	49	9.4	13	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,1-Dichloroethane	53	980	230	850	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,1-Dichloroethene	340	1100	1200	81	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,1-Dichloropropene					mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
1,2,3-Trichlorobenzene	86	240	1300	2700	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,2,3-Trichloropropane	0.07	0.2	1.5	4.3	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,2,4-Trichlorobenzene	86	360	380	400	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,2,4-Trimethylbenzene	180	200	220	220	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,2-Dibromo-3-chloropropane	0.078	1.5	0.96	3.5	mg/kg	0.0035	U	0.005	U	0.0085	U	0.0053	U	0.0037	U
1,2-Dibromoethane	0.54	6.8	2.4	8.9	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,2-Dichlorobenzene	360	370	380	380	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,2-Dichloroethane	6.9	110	30	110	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,2-Dichloroethene, Total					mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,2-Dichloropropane	23	420	99	110	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
1,3,5-Trimethylbenzene	160	170	180	180	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,3-Dichlorobenzene	290	290	300	300	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,3-Dichloropropane	2100	6100	32000	68000	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,3-Dichloropropene, Total	27	210	120	120	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
1,4-Dichlorobenzene	39	770	170	620	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
1,4-Dichlorobutane					mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
2,2-Dichloropropane					mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
2-Butanone	20000	25000	28000	11000	mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
2-Hexanone	290	1000	2000	300	mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
4-Methyl-2-pentanone	3400	3400	3400	3300	mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
Acetone	52000	81000	100000	98000	mg/kg	0.015		0.022		0.66		0.46		0.8	E
Acrylonitrile	3.7	34	17	14	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U
Benzene	17	230	75	240	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
Bromobenzene	380	530	650	620	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Bromochloromethane	220	4000	940	330	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Bromodichloromethane	4.4	83	19	70	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
Bromoform	280	720	790	890	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U
Bromomethane	10	160	45	120	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Carbon disulfide	690	720	740	720	mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
Carbon tetrachloride	9.7	150	43	160	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Chlorobenzene	410	680	740	740	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
Chloroethane	2100	2100	2100	2000	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Chloroform	4.7	97	21	75	mg/kg	0.0018	U	0.0025	U	0.0042	U	0.0026	U	0.0018	U
Chloromethane	160	1300	690	1300	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U



**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						B-09 (9-10')		B-10 (11-12')		B-06 (0-2')		B-09 (0-2')		B-11 (6-8')	
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19	
LAB SAMPLE ID						L1919966-07		L1919966-08		L1919966-10		L1919966-13		L1919966-15	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual		Qual		Qual		Qual		Qual
cis-1,2-Dichloroethene	200	480	1400	1400	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
cis-1,3-Dichloropropene					mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
Dibromochloromethane	110	320	530	3000	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Dibromomethane	35	800	150	190	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Dichlorodifluoromethane	130	830	550	730	mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
Ethyl ether	21000	61000	100000	8100	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Ethyl methacrylate					mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
Ethylbenzene	86	400	380	470	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Hexachlorobutadiene	15	16	16	17	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U
Isopropylbenzene	260	270	270	270	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Methyl tert butyl ether	690	5600	3000	8200	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Methylene chloride	490	1200	2500	1900	mg/kg	0.0058	U	0.0084	U	0.014	U	0.0088	U	0.0061	U
n-Butylbenzene	5400	15000	80000	34000	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
n-Propylbenzene	260	260	260	260	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Naphthalene	57	1300	250	130	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U
o-Chlorotoluene	2100	6100	32000	800	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
p-Chlorotoluene	2100	6100	32000	68000	mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
p-Isopropyltoluene					mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
sec-Butylbenzene	11000	30000	100000	34000	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Styrene	830	860	870	860	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
tert-Butylbenzene					mg/kg	0.0023	U	0.0033	U	0.0057	U	0.0035	U	0.0024	U
Tetrachloroethene	120	150	160	85	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
Tetrahydrofuran	26000	100000	100000	20000	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U
Toluene	750	790	810	820	mg/kg	0.0012	U	0.0017	U	0.0034		0.0023		0.0012	U
trans-1,2-Dichloroethene	990	1400	1800	1200	mg/kg	0.0018	U	0.0025	U	0.0042	U	0.0026	U	0.0018	U
trans-1,3-Dichloropropene					mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
trans-1,4-Dichloro-2-butene	0.11	2.5	0.48	1.8	mg/kg	0.0058	U	0.0084	U	0.014	U	0.0088	U	0.0061	U
Trichloroethene	6.1	77	28	3.9	mg/kg	0.00058	U	0.00084	U	0.0014	U	0.00088	U	0.00061	U
Trichlorofluoromethane	32000	91000	100000	940	mg/kg	0.0047	U	0.0067	U	0.011	U	0.007	U	0.0049	U
Vinyl acetate	1400	2700	2700	140	mg/kg	0.012	U	0.017	U	0.028	U	0.018	U	0.012	U
Vinyl chloride	0.64	0.71	24	63	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
Xylenes, Total	260	260	260	260	mg/kg	0.0012	U	0.0017	U	0.0028	U	0.0018	U	0.0012	U
<b>Semivolatile Organics by GC/MS-SIM (SVOCs)</b>															
1-Methylnaphthalene	240	680	990	6000	mg/kg	0.048		NS		0.037	U	0.01	U	NS	
2-Chloronaphthalene	6500	19000	82000	48000	mg/kg	0.042	U	NS		0.037	U	0.01	U	NS	
2-Methylnaphthalene	330	930	4100	960	mg/kg	0.047		NS		0.037	U	0.01	U	NS	
Acenaphthene	4900	14000	62000	48000	mg/kg	0.13		NS		0.043		0.01	U	NS	
Acenaphthylene	4900	14000	45000	48000	mg/kg	0.11		NS		0.19		0.01	U	NS	
Anthracene	25000	70000	100000	100000	mg/kg	0.37		NS		0.19		0.01	U	NS	
Benzo(a)anthracene	16	45	280	1700	mg/kg	0.75		NS		1.5		0.01	U	NS	
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	0.66		NS		<b>1.7</b>		0.01	U	NS	
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	0.8		NS		1.8		0.01	U	NS	
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	0.35		NS		1		0.01	U	NS	
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	0.28		NS		0.65		0.01	U	NS	
Chrysene	1600	4500	29000	100000	mg/kg	0.67		NS		1.4		0.01	U	NS	
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	0.1		NS		0.28		0.01	U	NS	
Fluoranthene	3300	9300	41000	24000	mg/kg	1.5		NS		1.5		0.01	U	NS	

**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						B-09 (9-10')	B-10 (11-12')	B-06 (0-2')	B-09 (0-2')	B-11 (6-8')
SAMPLING DATE						09-MAY-19	09-MAY-19	09-MAY-19	09-MAY-19	09-MAY-19
LAB SAMPLE ID						L1919966-07	L1919966-08	L1919966-10	L1919966-13	L1919966-15
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units	Qual	Qual	Qual	Qual	Qual
Fluorene	3300	9300	41000	96000	mg/kg	0.14	NS	0.042	0.01	NS
Hexachlorobenzene	3	15	14	3.4	mg/kg	0.042	U	0.037	0.01	NS
Hexachlorobutadiene	15	16	16	17	mg/kg	0.042	U	0.037	0.01	NS
Hexachloroethane	27	210	120	450	mg/kg	0.042	U	0.037	0.01	NS
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	0.31	NS	0.82	0.01	NS
Naphthalene	57	1300	250	130	mg/kg	0.085	NS	0.037	0.01	NS
Pentachlorophenol	14	40	54	190	mg/kg	0.17	U	0.15	0.041	NS
Phenanthrene	2500	7000	23000	72000	mg/kg	1.2	NS	0.45	0.01	NS
Pyrene	2500	7000	31000	72000	mg/kg	1.4	NS	2.2	0.01	NS
<b>Volatile Petroleum Hydrocarbons (VPH)</b>										
C5-C8 Aliphatics, Adjusted	1700	7500	11000	430	mg/kg	6.91	U	7.26	6.96	7.02
C9-C10 Aromatics	660	4700	3500	2600	mg/kg	6.91	U	7.26	6.96	7.02
C9-C12 Aliphatics, Adjusted	2500	17000	14000	2300	mg/kg	6.91	U	7.26	6.96	7.02
<b>Extractable Petroleum Hydrocarbons (EPH)</b>										
C11-C22 Aromatics, Adjusted	2600	7300	33000	74000	mg/kg	34.1	U	70.8	7.48	7.94
C19-C36 Aliphatics	100000	410000	100000	100000	mg/kg	18.7	U	66.4	7.48	7.94
C9-C18 Aliphatics	2500	17000	14000	4800	mg/kg	7.91	U	7.77	7.46	7.94
<b>EPH w/MS Targets (EPH)</b>										
2-Methylnaphthalene	330	930	4100	960	mg/kg	NS	0.031	NS	NS	0.032
Acenaphthene	4900	14000	62000	48000	mg/kg	NS	0.031	NS	NS	0.032
Acenaphthylene	4900	14000	45000	48000	mg/kg	NS	0.031	NS	NS	0.032
Anthracene	25000	70000	100000	100000	mg/kg	NS	0.031	NS	NS	0.032
Benzo(a)anthracene	16	45	280	1700	mg/kg	NS	0.031	NS	NS	0.032
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	NS	0.031	NS	NS	0.032
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	NS	0.031	NS	NS	0.032
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	NS	0.031	NS	NS	0.032
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	NS	0.031	NS	NS	0.032
Chrysene	1600	4500	29000	100000	mg/kg	NS	0.031	NS	NS	0.032
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	NS	0.031	NS	NS	0.032
Fluoranthene	3300	9300	41000	24000	mg/kg	NS	0.031	NS	NS	0.032
Fluorene	3300	9300	41000	96000	mg/kg	NS	0.031	NS	NS	0.032
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	NS	0.031	NS	NS	0.032
Naphthalene	57	1300	250	130	mg/kg	NS	0.031	NS	NS	0.032
Phenanthrene	2500	7000	23000	72000	mg/kg	NS	0.031	NS	NS	0.032
Pyrene	2500	7000	31000	72000	mg/kg	NS	0.031	NS	NS	0.032
<b>Notes:</b>										
1. Sample Results Comparison with Maine Residential RAGs (ME-RAGS-MR), Park User RAGs (ME-RAGS-MP), Outdoor Worker RAGs (ME-RAGS-MO), and Excavation/Construction Worker RAGs (ME-RAGS-ME) for Multiple Contaminants Criteria.										
2. mg/kg = milligrams per kilogram										
3. NS = Not Sampled										
4. U = Not Detected Above the Laboratory Detection Limit										
5. B-13 is a duplicate of B-06										
<b>186</b>	= Detected Above the Maine Residential RAGs (ME-RAGS-MR)									



**TABLE 2  
SOIL ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC								
SAMPLE ID							TRIP BLANK	
SAMPLING DATE							06-MAY-19	
LAB SAMPLE ID							L1919966-09	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual	
<b>General Chemistry</b>								
Solids, Total					%	NS		
<b>Total Metals</b>								
Lead, Total	140	290	440	450	mg/kg	NS		
<b>Volatile Organics by EPA 5035 (VOCs)</b>								
1,1,1,2-Tetrachloroethane	30	410	130	480	mg/kg	0.0005	U	
1,1,1-Trichloroethane	640	640	640	640	mg/kg	0.0005	U	
1,1,2,2-Tetrachloroethane	8.9	88	39	150	mg/kg	0.0005	U	
1,1,2-Trichloroethane	2.2	49	9.4	13	mg/kg	0.001	U	
1,1-Dichloroethane	53	980	230	850	mg/kg	0.001	U	
1,1-Dichloroethene	340	1100	1200	81	mg/kg	0.001	U	
1,1-Dichloropropene					mg/kg	0.0005	U	
1,2,3-Trichlorobenzene	86	240	1300	2700	mg/kg	0.002	U	
1,2,3-Trichloropropane	0.07	0.2	1.5	4.3	mg/kg	0.002	U	
1,2,4-Trichlorobenzene	86	360	380	400	mg/kg	0.002	U	
1,2,4-Trimethylbenzene	180	200	220	220	mg/kg	0.002	U	
1,2-Dibromo-3-chloropropane	0.078	1.5	0.96	3.5	mg/kg	0.003	U	
1,2-Dibromoethane	0.54	6.8	2.4	8.9	mg/kg	0.001	U	
1,2-Dichlorobenzene	360	370	380	380	mg/kg	0.002	U	
1,2-Dichloroethane	6.9	110	30	110	mg/kg	0.001	U	
1,2-Dichloroethene, Total					mg/kg	0.001	U	
1,2-Dichloropropane	23	420	99	110	mg/kg	0.001	U	
1,3,5-Trimethylbenzene	160	170	180	180	mg/kg	0.002	U	
1,3-Dichlorobenzene	290	290	300	300	mg/kg	0.002	U	
1,3-Dichloropropane	2100	6100	32000	68000	mg/kg	0.002	U	
1,3-Dichloropropene, Total	27	210	120	120	mg/kg	0.0005	U	
1,4-Dichlorobenzene	39	770	170	620	mg/kg	0.002	U	
1,4-Dichlorobutane					mg/kg	0.01	U	
2,2-Dichloropropane					mg/kg	0.002	U	
2-Butanone	20000	25000	28000	11000	mg/kg	0.01	U	
2-Hexanone	290	1000	2000	300	mg/kg	0.01	U	
4-Methyl-2-pentanone	3400	3400	3400	3300	mg/kg	0.01	U	
Acetone	52000	81000	100000	98000	mg/kg	0.012		
Acrylonitrile	3.7	34	17	14	mg/kg	0.004	U	
Benzene	17	230	75	240	mg/kg	0.0005	U	
Bromobenzene	380	530	650	620	mg/kg	0.002	U	
Bromochloromethane	220	4000	940	330	mg/kg	0.002	U	
Bromodichloromethane	4.4	83	19	70	mg/kg	0.0005	U	
Bromoform	280	720	790	890	mg/kg	0.004	U	
Bromomethane	10	160	45	120	mg/kg	0.002	U	
Carbon disulfide	690	720	740	720	mg/kg	0.01	U	
Carbon tetrachloride	9.7	150	43	160	mg/kg	0.001	U	
Chlorobenzene	410	680	740	740	mg/kg	0.0005	U	
Chloroethane	2100	2100	2100	2000	mg/kg	0.002	U	
Chloroform	4.7	97	21	75	mg/kg	0.0015	U	
Chloromethane	160	1300	690	1300	mg/kg	0.004	U	

**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
**GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						TRIP BLANK	
SAMPLING DATE						06-MAY-19	
LAB SAMPLE ID						L1919966-09	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual
cis-1,2-Dichloroethene	200	480	1400	1400	mg/kg	0.001	U
cis-1,3-Dichloropropene					mg/kg	0.0005	U
Dibromochloromethane	110	320	530	3000	mg/kg	0.001	U
Dibromomethane	35	800	150	190	mg/kg	0.002	U
Dichlorodifluoromethane	130	830	550	730	mg/kg	0.01	U
Ethyl ether	21000	61000	100000	8100	mg/kg	0.002	U
Ethyl methacrylate					mg/kg	0.01	U
Ethylbenzene	86	400	380	470	mg/kg	0.001	U
Hexachlorobutadiene	15	16	16	17	mg/kg	0.004	U
Isopropylbenzene	260	270	270	270	mg/kg	0.001	U
Methyl tert butyl ether	690	5600	3000	8200	mg/kg	0.002	U
Methylene chloride	490	1200	2500	1900	mg/kg	0.005	U
n-Butylbenzene	5400	15000	80000	34000	mg/kg	0.001	U
n-Propylbenzene	260	260	260	260	mg/kg	0.001	U
Naphthalene	57	1300	250	130	mg/kg	0.004	U
o-Chlorotoluene	2100	6100	32000	800	mg/kg	0.002	U
p-Chlorotoluene	2100	6100	32000	68000	mg/kg	0.002	U
p-Isopropyltoluene					mg/kg	0.001	U
sec-Butylbenzene	11000	30000	100000	34000	mg/kg	0.001	U
Styrene	830	860	870	860	mg/kg	0.001	U
tert-Butylbenzene					mg/kg	0.002	U
Tetrachloroethene	120	150	160	85	mg/kg	0.0005	U
Tetrahydrofuran	26000	100000	100000	20000	mg/kg	0.004	U
Toluene	750	790	810	820	mg/kg	0.0019	
trans-1,2-Dichloroethene	990	1400	1800	1200	mg/kg	0.0015	U
trans-1,3-Dichloropropene					mg/kg	0.001	U
trans-1,4-Dichloro-2-butene	0.11	2.5	0.48	1.8	mg/kg	0.005	U
Trichloroethene	6.1	77	28	3.9	mg/kg	0.0005	U
Trichlorofluoromethane	32000	91000	100000	940	mg/kg	0.004	U
Vinyl acetate	1400	2700	2700	140	mg/kg	0.01	U
Vinyl chloride	0.64	0.71	24	63	mg/kg	0.001	U
Xylenes, Total	260	260	260	260	mg/kg	0.001	U
<b>Semivolatile Organics by GC/MS-SIM (SVOCs)</b>							
1-Methylnaphthalene	240	680	990	6000	mg/kg	NS	
2-Chloronaphthalene	6500	19000	82000	48000	mg/kg	NS	
2-Methylnaphthalene	330	930	4100	960	mg/kg	NS	
Acenaphthene	4900	14000	62000	48000	mg/kg	NS	
Acenaphthylene	4900	14000	45000	48000	mg/kg	NS	
Anthracene	25000	70000	100000	100000	mg/kg	NS	
Benzo(a)anthracene	16	45	280	1700	mg/kg	NS	
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	NS	
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	NS	
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	NS	
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	NS	
Chrysene	1600	4500	29000	100000	mg/kg	NS	
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	NS	
Fluoranthene	3300	9300	41000	24000	mg/kg	NS	

**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
**GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						TRIP BLANK	
SAMPLING DATE						06-MAY-19	
LAB SAMPLE ID						L1919966-09	
	ME-RAGS-MR	ME-RAGS-MP	ME-RAGS-MO	ME-RAGS-ME	Units		Qual
Fluorene	3300	9300	41000	96000	mg/kg	NS	
Hexachlorobenzene	3	15	14	3.4	mg/kg	NS	
Hexachlorobutadiene	15	16	16	17	mg/kg	NS	
Hexachloroethane	27	210	120	450	mg/kg	NS	
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	NS	
Naphthalene	57	1300	250	130	mg/kg	NS	
Pentachlorophenol	14	40	54	190	mg/kg	NS	
Phenanthrene	2500	7000	23000	72000	mg/kg	NS	
Pyrene	2500	7000	31000	72000	mg/kg	NS	
<b>Volatile Petroleum Hydrocarbons (VPH)</b>							
C5-C8 Aliphatics, Adjusted	1700	7500	11000	430	mg/kg	5	U
C9-C10 Aromatics	660	4700	3500	2600	mg/kg	5	U
C9-C12 Aliphatics, Adjusted	2500	17000	14000	2300	mg/kg	5	U
<b>Extractable Petroleum Hydrocarbons (EPH)</b>							
C11-C22 Aromatics, Adjusted	2600	7300	33000	74000	mg/kg	NS	
C19-C36 Aliphatics	100000	410000	100000	100000	mg/kg	NS	
C9-C18 Aliphatics	2500	17000	14000	4800	mg/kg	NS	
<b>EPH w/MS Targets (EPH)</b>							
2-Methylnaphthalene	330	930	4100	960	mg/kg	NS	
Acenaphthene	4900	14000	62000	48000	mg/kg	NS	
Acenaphthylene	4900	14000	45000	48000	mg/kg	NS	
Anthracene	25000	70000	100000	100000	mg/kg	NS	
Benzo(a)anthracene	16	45	280	1700	mg/kg	NS	
Benzo(a)pyrene	1.6	4.5	29	9.9	mg/kg	NS	
Benzo(b)fluoranthene	16	45	290	1700	mg/kg	NS	
Benzo(ghi)perylene	2500	7000	23000	72000	mg/kg	NS	
Benzo(k)fluoranthene	160	450	2900	17000	mg/kg	NS	
Chrysene	1600	4500	29000	100000	mg/kg	NS	
Dibenzo(a,h)anthracene	1.6	4.5	29	170	mg/kg	NS	
Fluoranthene	3300	9300	41000	24000	mg/kg	NS	
Fluorene	3300	9300	41000	96000	mg/kg	NS	
Indeno(1,2,3-cd)Pyrene	16	45	290	1700	mg/kg	NS	
Naphthalene	57	1300	250	130	mg/kg	NS	
Phenanthrene	2500	7000	23000	72000	mg/kg	NS	
Pyrene	2500	7000	31000	72000	mg/kg	NS	
<b>Notes:</b>							
1. Sample Results Comparison with Maine Residential RAGs (ME-RAGS-MR), Park User RAGs (ME-RAGS-MP), Outdoor Worker RAGs (ME-RAGS-MO), and Excavation/Construction Worker RAGs (ME-RAGS-ME) for Multiple Contaminants Criteria.							
2. mg/kg = milligrams per kilogram							
3. NS = Not Sampled							
4. U = Not Detected Above the Laboratory Detection Limit							
5. B-13 is a duplicate of B-06							
<b>186</b>	= Detected Above the Maine Residential RAGs (ME-RAGS-MR)						

**TABLE 3  
GROUNDWATER ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC				AOC 1						SITEWIDE							
SAMPLE ID				MW-02		MW-03		MW-10		MW-09		MW-06		MW-13		TRIP BLANK	
SAMPLING DATE				10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19	
LAB SAMPLE ID				L1919756-05		L1919756-04		L1919756-06		L1919756-01		L1919756-02		L1919756-03		L1919756-07	
	ME-RAGS-GR	ME-RAGS-GC	Units		Qual		Qual		Qual		Qual		Qual		Qual		Qual
<b>Total Metals</b>																	
<b>Lead, Total</b>	5	-	ug/l	<b>36</b>		<b>10</b>	U	<b>10</b>	U	<b>52</b>		<b>59</b>		<b>44</b>		NS	
<b>Volatile Organics by GC/MS (VOCs)</b>																	
<b>1,1,1,2-Tetrachloroethane</b>	5.7	620	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,1,1-Trichloroethane</b>	8000	29000	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,1,2,2-Tetrachloroethane</b>	0.76	90	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,1,2-Trichloroethane</b>	0.42	12	ug/l	<b>0.75</b>	U	<b>0.75</b>	U	<b>0.75</b>	U	<b>0.75</b>	U	<b>0.75</b>	U	<b>0.75</b>	U	<b>0.75</b>	U
<b>1,1-Dichloroethane</b>	28	2200	ug/l	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
<b>1,1-Dichloroethene</b>	290	390	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,1-Dichloropropene</b>			ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,2,3-Trichlorobenzene</b>	7	2900	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,2,3-Trichloropropane</b>	0.0075	2.1	ug/l	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U
<b>1,2,4-Trichlorobenzene</b>	4	140	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,2,4-Trimethylbenzene</b>	56	1000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,2-Dibromo-3-chloropropane</b>	0.0033	1.2	ug/l	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U
<b>1,2-Dibromoethane</b>	0.075	8.7	ug/l	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U	<b>1</b>	U
<b>1,2-Dichlorobenzene</b>	300	12000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,2-Dichloroethane</b>	1.7	140	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,2-Dichloroethene, Total</b>			ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,2-Dichloropropane</b>	8.3	180	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,3,5-Trimethylbenzene</b>	60	1100	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,3-Dichlorobenzene</b>	300	6200	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,3-Dichloropropane</b>	370	100000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,3-Dichloropropene, Total</b>	4.7	200	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>1,4-Dichlorobenzene</b>	4.8	400	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>1,4-Dichlorobutane</b>			ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
<b>2,2-Dichloropropane</b>			ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>2-Butanone</b>	5600	9000	ug/l	5	U	5	U	12		5	U	5	U	5	U	5	U
<b>2-Hexanone</b>	38	240	ug/l	5	U	5	U	26		5	U	5	U	5	U	5	U
<b>4-Methyl-2-pentanone</b>	6300	5800	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
<b>Acetone</b>	14000	100000	ug/l	14		5	U	29		15		10		23		5	U
<b>Acrylonitrile</b>	0.52	11	ug/l	<b>5</b>	U	<b>5</b>	U	<b>5</b>	U	<b>5</b>	U	<b>5</b>	U	<b>5</b>	U	<b>5</b>	U
<b>Benzene</b>	4.6	350	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>Bromobenzene</b>	62	1200	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>Bromochloromethane</b>	83	600	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>Bromodichloromethane</b>	1.3	130	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>Bromoform</b>	33	5500	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>Bromomethane</b>	7.6	490	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>Carbon disulfide</b>	810	3100	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>Carbon tetrachloride</b>	4.6	700	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>Chlorobenzene</b>	78	2600	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
<b>Chloroethane</b>	21000	16000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>Chloroform</b>	2.2	170	ug/l	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
<b>Chloromethane</b>	190	11000	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
<b>cis-1,2-Dichloroethene</b>	35	3700	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

**TABLE 3  
GROUNDWATER ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC				AOC 1						SITEWIDE							
SAMPLE ID				MW-02		MW-03		MW-10		MW-09		MW-06		MW-13		TRIP BLANK	
SAMPLING DATE				10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19	
LAB SAMPLE ID				L1919756-05		L1919756-04		L1919756-06		L1919756-01		L1919756-02		L1919756-03		L1919756-07	
	ME-RAGS-GR	ME-RAGS-GC	Units		Qual		Qual		Qual		Qual		Qual		Qual		Qual
cis-1,3-Dichloropropene			ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	8.7	53000	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	8.3	280	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	200	5400	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Ethyl ether	3900	14000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethyl methacrylate			ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	15	1400	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	1.4	230	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	450	500	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert butyl ether	140	13000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	110	4900	ug/l	3	U	3	U	3	U	3	U	3	U	3	U	3	U
n-Butylbenzene	1000	100000	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	660	4900	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	1.7	19	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
o-Chlorotoluene	240	3300	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
p-Chlorotoluene	250	100000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
p-Isopropyltoluene			ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	2000	100000	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	1200	15000	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene			ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	41	260	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrahydrofuran	3400	16000	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Toluene	1100	24000	ug/l	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,2-Dichloroethene	300	3900	ug/l	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
trans-1,3-Dichloropropene			ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,4-Dichloro-2-butene	0.013	1	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Trichloroethene	2.8	12	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5200	5900	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl acetate	410	180	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	0.19	0.22	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Xylenes, Total	190	2100	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
<b>PAHs by GC/MS-SIM (SVOCs)</b>																	
1-Methylnaphthalene	11	8800	ug/l	NS		NS		NS		0.1	U	0.1	U	0.1	U	NS	
2-Chloronaphthalene	750	81000	ug/l	NS		NS		NS		0.2	U	0.2	U	0.2	U	NS	
2-Methylnaphthalene	36	1500	ug/l	NS		NS		NS		0.1		0.1	U	0.1	U	NS	
Acenaphthene	540	74000	ug/l	NS		NS		NS		0.1	U	0.1	U	0.1	U	NS	
Acenaphthylene	520	71000	ug/l	NS		NS		NS		0.1	U	0.1	U	0.1	U	NS	
Anthracene	1800	100000	ug/l	NS		NS		NS		0.1	U	0.1	U	0.1	U	NS	
Benzo(a)anthracene	0.3	470	ug/l	NS		NS		NS		0.21		0.13		0.15		NS	
Benzo(a)pyrene	0.25	11000	ug/l	NS		NS		NS		0.25		0.16		0.18		NS	
Benzo(b)fluoranthene	2.5	100000	ug/l	NS		NS		NS		0.32		0.17		0.19		NS	
Benzo(ghi)perylene	600	100000	ug/l	NS		NS		NS		0.16		0.1	U	0.1	U	NS	
Benzo(k)fluoranthene	25	100000	ug/l	NS		NS		NS		0.16		0.1	U	0.1		NS	
Chrysene	250	100000	ug/l	NS		NS		NS		0.25		0.14		0.14		NS	
Dibenzo(a,h)anthracene	0.25	26000	ug/l	NS		NS		NS		0.1	U	0.1	U	0.1	U	NS	



**TABLE 3  
GROUNDWATER ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC				AOC 1						SITEWIDE							
SAMPLE ID				MW-02		MW-03		MW-10		MW-09		MW-06		MW-13		TRIP BLANK	
SAMPLING DATE				10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19		10-MAY-19	
LAB SAMPLE ID				L1919756-05		L1919756-04		L1919756-06		L1919756-01		L1919756-02		L1919756-03		L1919756-07	
	ME-RAGS-GR	ME-RAGS-GC	Units		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Fluoranthene	800	100000	ug/l	NS		NS		NS		0.49		0.22		0.22		NS	
Fluorene	290	100000	ug/l	NS		NS		NS		0.1	U	0.1	U	0.1	U	NS	
Indeno(1,2,3-cd)pyrene	2.5	100000	ug/l	NS		NS		NS		0.18		0.1	U	0.1		NS	
Naphthalene	1.7	19	ug/l	NS		NS		NS		0.17		0.1	U	0.1	U	NS	
Phenanthrene	180	58000	ug/l	NS		NS		NS		0.17		0.14		0.1		NS	
Pyrene	120	36000	ug/l	NS		NS		NS		0.4		0.23		0.26		NS	
<b>Volatile Petroleum Hydrocarbons (VPH)</b>																	
C5-C8 Aliphatics, Adjusted	180	960	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	NS	
C9-C10 Aromatics	71	2700	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	NS	
C9-C12 Aliphatics, Adjusted	350	3700	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	NS	
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																	
C11-C22 Aromatics, Adjusted	600	100000	ug/l	100	U	100	U	100	U	100	U	100	U	100	U	NS	
C19-C36 Aliphatics	40000	100000	ug/l	100	U	100	U	100	U	106	U	100	U	100	U	NS	
C9-C18 Aliphatics	350	3900	ug/l	100	U	100	U	100	U	141		100	U	100	U	NS	
<b>EPH w/MS Targets (EPH)</b>																	
2-Methylnaphthalene	36	1500	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Acenaphthene	540	74000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Acenaphthylene	520	71000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Anthracene	1800	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Benzo(a)anthracene	0.3	470	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Benzo(a)pyrene	0.25	11000	ug/l	0.2	U	0.2	U	0.2	U	NS		NS		NS		NS	
Benzo(b)fluoranthene	2.5	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Benzo(ghi)perylene	600	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Benzo(k)fluoranthene	25	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Chrysene	250	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Dibenzo(a,h)anthracene	0.25	26000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Fluoranthene	800	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Fluorene	290	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Indeno(1,2,3-cd)Pyrene	2.5	100000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Naphthalene	1.7	19	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Phenanthrene	180	58000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
Pyrene	120	36000	ug/l	0.4	U	0.4	U	0.4	U	NS		NS		NS		NS	
<b>Notes:</b>																	
1. Sample Results Comparison with Maine Groundwater Residential (ME-RAGS-GR) and Construction Worker (ME-RAGS-GC) Remedial Action Guidelines.																	
2. ug/l = micrograms per liter																	
3. U = Not Detected Above the Laboratory Detection Limit																	
4. NS = Not Sampled																	
5. MW-13 is a duplicate of MW-6																	
<b>0.75</b>				= Detection Limit is Above ME-RAGS-GR													
<b>2.5</b>				= Detection Limit is Above ME-RAGS-GR and ME-RAGS-GC													
<b>0.25</b>				= Analytical Result is Above ME-RAGS-GR													



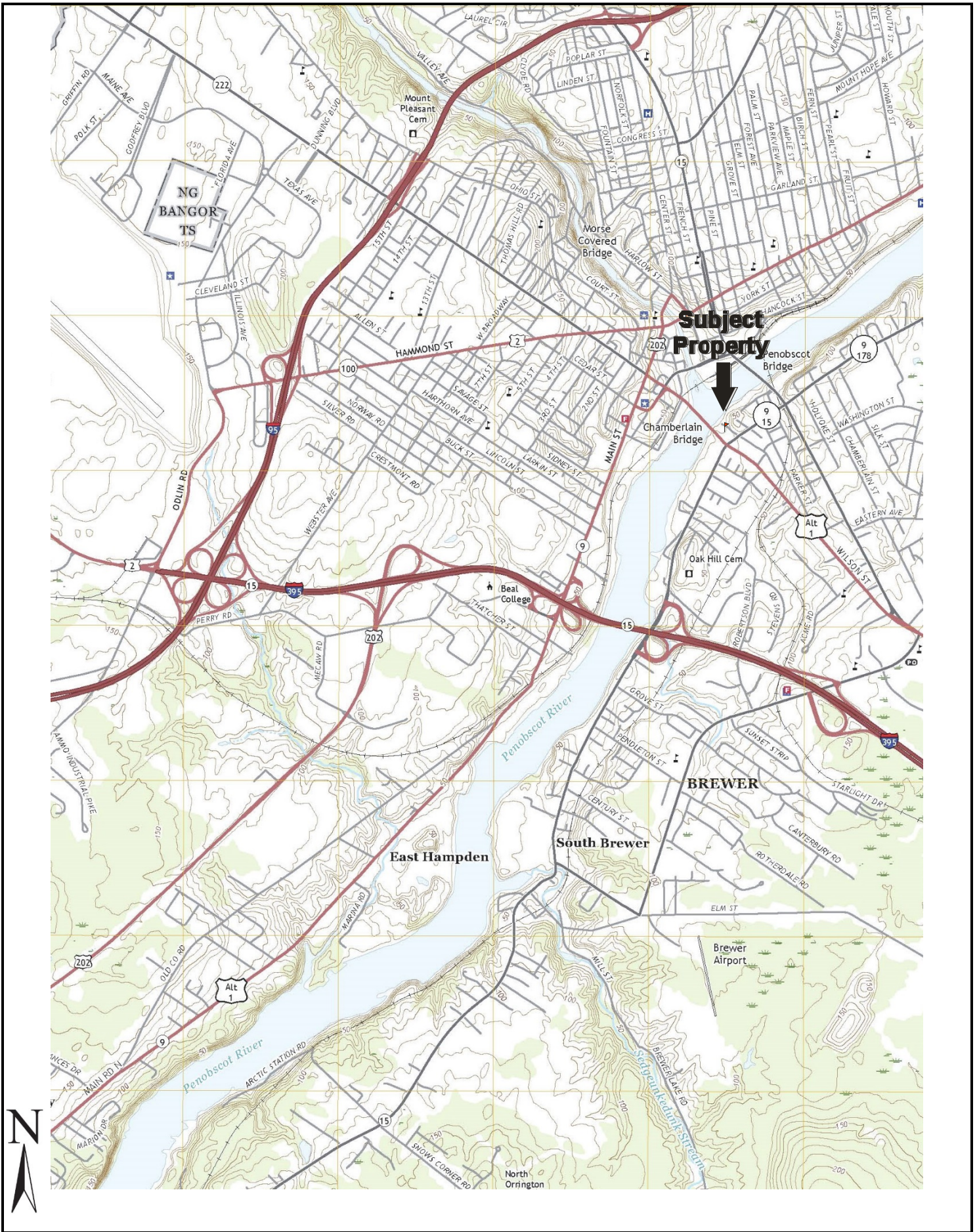
**TABLE 4  
SOIL VAPOR AND SUBSLAB SOIL VAPOR ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

AOC						AOC 1				AOC 2			SITEWIDE					
SAMPLE ID						SV-01		SV-02		SV-03		SSV-01		SSV-02		SSV-03		
SAMPLING DATE						09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		09-MAY-19		
LAB SAMPLE ID						L1919770-01		L1919770-03		L1919770-06		L1919770-02		L1919770-04		L1919770-05		
	ME-RAGSIAR	MERAGSIAR/.03	ME-RAGSIAC	MERAGSIAC/.03	Units		Qual		Qual		Qual		Qual		Qual		Qual	
<b>Volatile Organics in Air by SIM</b>																		
1,1,1-Trichloroethane	5200	173333.3	22000	733333.3	ug/m3	0.109	U	0.109	U	0.109	U	1.03		0.147		0.109	U	
1,1,2,2-Tetrachloroethane	0.48	16.0	2.1	70.0	ug/m3	0.137	U	0.137	U	0.137	U	0.412		0.137	U	0.137	U	
1,1,2-Trichloro-1,2,2-Trifluoroethane					ug/m3	0.498		0.491		0.498		0.766	U	0.529		0.506		
1,1,2-Trichloroethane	0.21	7.0	0.88	29.3	ug/m3	0.109	U	0.109	U	0.109	U	0.218	U	0.109	U	0.109	U	
1,1-Dichloroethane	18	600.0	77	2566.7	ug/m3	0.081	U	0.081	U	0.081	U	0.162	U	0.081	U	0.081	U	
1,1-Dichloroethene	210	7000.0	880	29333.3	ug/m3	0.079	U	0.079	U	0.079	U	0.159	U	0.079	U	0.079	U	
1,2,4-Trichlorobenzene	2.1	70.0	8.8	293.3	ug/m3	0.371	U	0.371	U	0.371	U	0.742	U	0.371	U	0.371	U	
1,2,4-Trimethylbenzene	63	2100.0	260	8666.7	ug/m3	4.15		3.13		1.92		8.16		1.22		2.19		
1,2-Dibromoethane	0.047	1.6	0.2	6.7	ug/m3	0.154	U	0.154	U	0.154	U	0.307	U	0.154	U	0.154	U	
1,2-Dichloro-1,1,2,2-tetrafluoroethane					ug/m3	0.349	U	0.349	U	0.349	U	0.699	U	0.349	U	0.349	U	
1,2-Dichlorobenzene	210	7000.0	880	29333.3	ug/m3	0.12	U	0.12	U	0.301		0.24	U	1.43		0.12	U	
1,2-Dichloroethane	1.1	36.7	4.7	156.7	ug/m3	0.081	U	0.081	U	0.081	U	0.162	U	0.081	U	0.085		
1,2-Dichloroethene (total)					ug/m3	0.079	U	0.079	U	0.079	U	1.59		0.079	U	0.079	U	
1,2-Dichloropropane	4.2	140.0	18	600.0	ug/m3	0.092	U	0.092	U	0.092	U	0.185	U	0.092	U	0.092	U	
1,3,5-Trimethylbenzene	63	2100.0	260	8666.7	ug/m3	1.36		0.796		0.492		2.69		0.511		0.659		
1,3-Butadiene	0.94	31.3	4.1	136.7	ug/m3	8.3		0.785		0.044	U	1.2		0.761		0.75		
1,3-Dichlorobenzene					ug/m3	1		0.914		0.649		0.24	U	0.126		0.12	U	
1,3-Dichloropropene, Total	7	233.3	31	1033.3	ug/m3	0.091	U	0.091	U	0.091	U	0.182	U	0.091	U	0.091	U	
1,4-Dichlorobenzene	2.6	86.7	11	366.7	ug/m3	0.12	U	0.12	U	0.12	U	0.24	U	0.391		0.12	U	
1,4-Dioxane	5.6	186.7	25	833.3	ug/m3	0.36	U	0.36	U	0.36	U	0.721	U	0.36	U	0.36	U	
2,2,4-Trimethylpentane					ug/m3	2.27		0.934	U	0.934	U	1.87	U	1.45		1.96		
2-Butanone	5200	173333.3	22000	733333.3	ug/m3	4.78		1.61		1.47	U	20.3		3.54		6.13		
2-Hexanone	31	1033.3	130	4333.3	ug/m3	0.82	U	0.82	U	0.82	U	1.64	U	0.82	U	0.82	U	
3-Chloropropene	1	33.3	4.4	146.7	ug/m3	0.626	U	0.626	U	0.626	U	1.25	U	0.626	U	0.626	U	
4-Ethyltoluene					ug/m3	1.16		0.654		0.364		1.4		0.182		0.462		
4-Methyl-2-pentanone	3100	103333.3	13000	433333.3	ug/m3	2.05	U	2.05	U	2.05	U	4.1	U	2.05	U	2.05	U	
Acetone	32000	1066666.7	100000	3333333.3	ug/m3	17.3		18		9.1		1320		47.5		254		
Benzene	3.6	120.0	16	533.3	ug/m3	13.9		0.863		0.319	U	2.45		1.41		1.85		
Benzyl chloride	0.57	19.0	2.5	83.3	ug/m3	1.04	U	1.04	U	1.04	U	2.07	U	1.04	U	1.04	U	
Bromodichloromethane	0.76	25.3	3.3	110.0	ug/m3	0.134	U	0.134	U	0.134	U	0.268	U	0.134	U	0.134	U	
Bromoform	26	866.7	110	3666.7	ug/m3	0.207	U	0.207	U	0.207	U	0.414	U	0.207	U	0.207	U	
Bromomethane	5.2	173.3	22	733.3	ug/m3	0.078	U	0.078	U	0.078	U	0.155	U	0.078	U	0.167		
Carbon disulfide	730	24333.3	3100	103333.3	ug/m3	1.96		0.623	U	0.623	U	1.25	U	2.38		1.87		
Carbon tetrachloride	4.7	156.7	20	666.7	ug/m3	0.484		62.9		0.528		0.252		0.403		0.396		
Chlorobenzene	52	1733.3	220	7333.3	ug/m3	0.461	U	0.461	U	0.461	U	0.921	U	0.461	U	0.631		
Chloroethane	10000	333333.3	44000	1466666.7	ug/m3	0.264	U	0.264	U	0.264	U	0.528	U	0.264	U	0.264	U	
Chloroform	1.2	40.0	5.3	176.7	ug/m3	0.283		0.796		0.825		0.947		0.371		0.151		
Chloromethane	94	3133.3	390	13000.0	ug/m3	0.995		0.413	U	0.413	U	0.826	U	0.944		1.75		
cis-1,2-Dichloroethene	830	27666.7	3500	116666.7	ug/m3	0.079	U	0.079	U	0.079	U	0.159	U	0.079	U	0.079	U	
cis-1,3-Dichloropropene					ug/m3	0.091	U	0.091	U	0.091	U	0.182	U	0.091	U	0.091	U	
Cyclohexane	6300	210000.0	26000	866666.7	ug/m3	1.57		0.688	U	0.688	U	1.38	U	2.66		0.688	U	
Dibromochloromethane					ug/m3	0.17	U	0.17	U	0.17	U	0.341	U	0.17	U	0.17	U	
Dichlorodifluoromethane	100	3333.3	440	14666.7	ug/m3	2.98		3.9		2.13		15.4		5.14		2.58		
Ethyl Acetate					ug/m3	1.8	U	1.8	U	1.8	U	3.6	U	1.8	U	1.8	U	
Ethyl Alcohol					ug/m3	15.7		13.9		13.5		115		14.2		30.5		
Ethylbenzene	11	366.7	49	1633.3	ug/m3	5.39		1.72		0.882		1.78		1.18		1.99		
Heptane					ug/m3	4.3		0.82	U	0.82	U	4.71		1.41		1.84		
Hexachlorobutadiene	1.3	43.3	5.6	186.7	ug/m3	0.533	U	0.533	U	0.533	U	1.07	U	0.533	U	0.533	U	
iso-Propyl Alcohol					ug/m3	1.23	U	1.23	U	1.56		80.1		1.86		15.6		
Methyl tert butyl ether	110	3666.7	470	15666.7	ug/m3	0.721	U	0.721	U	0.721	U	1.44	U	0.721	U	0.721	U	
Methylene chloride	630	21000.0	2600	86666.7	ug/m3	1.74	U	1.74	U	1.74	U	3.47	U	1.74	U	1.74	U	
n-Hexane					ug/m3	5.04		1.31		0.705	U	3.88		1.92		1.77		
Naphthalene	0.83	27.7	3.6	120.0	ug/m3	0.661		0.923		0.666		0.524	U	0.309		0.262	U	

**TABLE 4  
SOIL VAPOR AND SUBSLAB SOIL VAPOR ANALYTICAL RESULTS  
GETCHELL BROTHERS, INC., 1 UNION STREET, BREWER, MAINE**

SAMPLE ID						SV-01	SV-02	SV-03	SSV-01	SSV-02	SSV-03					
SAMPLING DATE						09-MAY-19	09-MAY-19	09-MAY-19	09-MAY-19	09-MAY-19	09-MAY-19					
LAB SAMPLE ID						L1919770-01	L1919770-03	L1919770-06	L1919770-02	L1919770-04	L1919770-05					
	ME-RAGSIAR	MERAGSIAR/.03	ME-RAGSIAC	MERAGSIAC/.03	Units	Qual	Qual	Qual	Qual	Qual	Qual					
Propylene					ug/m3	29.3		4.15		0.861	U	6.87		4.13		3.32
Styrene	1000	33333.3	4400	146666.7	ug/m3	0.809		0.187		0.136		0.579		0.085	U	0.302
Tetrachloroethene	42	1400.0	180	6000.0	ug/m3	0.312		0.712		3.19		134		5.69		0.237
Tetrahydrofuran	2100	70000.0	8800	293333.3	ug/m3	1.47	U	1.47	U	1.47	U	9		1.47	U	2.45
Toluene	5200	173333.3	22000	733333.3	ug/m3	14		1.87		0.799		3.92		2.47		5.01
trans-1,2-Dichloroethene	830	27666.7	3500	116666.7	ug/m3	0.079	U	0.079	U	0.079	U	1.59		0.079	U	0.079
trans-1,3-Dichloropropene					ug/m3	0.091	U	0.091	U	0.091	U	0.182	U	0.091	U	0.091
Trichloroethene	2.1	70.0	8.8	293.3	ug/m3	0.107	U	0.107	U	0.107	U	0.269		1.69		0.107
Trichlorofluoromethane					ug/m3	31.3		48.8		2.59		555		6.29		9.33
Vinyl acetate	210	7000.0	880	29333.3	ug/m3	3.52	U	3.52	U	3.52	U	7.04	U	3.52	U	3.52
Vinyl bromide	0.88	29.3	3.8	126.7	ug/m3	0.874	U	0.874	U	0.874	U	1.75	U	0.874	U	0.874
Vinyl chloride	1.7	56.7	28	933.3	ug/m3	0.051		0.051	U	0.051	U	0.102	U	0.051	U	0.051
Xylene (Total)	100	3333.3	440	14666.7	ug/m3	24.3		8.38		4.27		9.21		5.65		9.6
<b>Petroleum Hydrocarbons in Air</b>																
1,3-Butadiene	0.94	31.3	4.1	136.7	ug/m3	8.8		0.5	U	0.5	U	1	U	0.66		0.66
Benzene	3.6	120.0	16	533.3	ug/m3	14		0.79		0.6	U	2.3		1.4		1.9
C5-C8 Aliphatics, Adjusted	210	7000.0	880	29333.3	ug/m3	200		41		25		140		77		68
C9-C10 Aromatics Total	52	1733.3	220	7333.3	ug/m3	16		14		10	U	24		10	U	10
C9-C12 Aliphatics, Adjusted	210	7000.0	880	29333.3	ug/m3	160		93		59		340		400		100
Ethylbenzene	11	366.7	49	1633.3	ug/m3	5		1.6		0.9	U	1.8	U	1.1		1.9
Methyl tert butyl ether	110	3666.7	470	15666.7	ug/m3	0.7	U	0.7	U	0.7	U	1.4	U	0.7	U	0.7
Naphthalene	0.83	27.7	3.6	120.0	ug/m3	1.1	U	1.1	U	1.1	U	2.2	U	1.1	U	1.1
Toluene	5200	173333.3	22000	733333.3	ug/m3	12		1.7		0.9	U	3.6		2.3		4.6
Xylene (Total)	100	3333.3	440	14666.7	ug/m3	23		7.9		4.1		8.8		5.3		9.4
<b>Notes:</b>																
Sample Results Comparison with 0.03 attenuation factor of the Maine Residential Indoor Air Remediation Action Guidelines (MERAGSIA) and Maine Commercial Indoor Air Remediation Action Guidelines (MERAGSIAC).																
ug/m3 = micrograms per cubic meter																
U = Not Detected Above the Laboratory Detection Limit																
SV = Soil Vapor																
SSV = Subslab Soil Vapor																





**FIGURE 1: SITE LOCATION MAP**  
**Project No. BE-173**

Drawing Not To Scale







**FIGURE 2: SAMPLE LOCATION MAP**  
**GETCHELL BROTHERS, 1 AND 11 UNION ST, BREWER, MAINE**  
 Project No.: BE-173

Date: June 2019  
 By: JKC





**Photo No. 1**

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
View of the Site from the east.

**Photo By:** JKC



**Photo No. 2**

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
View of SV-01 and B-10/MW-10.

**Photo By:** JKC





**Photo No. 3**

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
View of soil recovered in  
Geoprobe sleeve from B-  
03.

**Photo By:** JKC



**Photo No. 4**

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
Geoprobng at location B-  
02.

**Photo By:** JKC





**Photo No.** 5

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
View of subslab soil vapor  
location SSV-03.

**Photo By:** JKC



**Photo No.** 6

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
Sampling monitoring well  
MW-03.

**Photo By:** JKC





**Photo No.** 7

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
View of subslab soil vapor  
SSV-02.

**Photo By:** JKC



**Photo No.** 8

**Site Location:**  
1 Union Street  
Brewer, Maine

**Photo Date:**  
May 9, 2019

**Description:**  
View of subslab soil vapor  
location SSV-01.

**Photo By:** JKC

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. BK-B-01	
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT	
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:		
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:
					Groundwater Depth:		Elevation:		Total Depth of Boring: 14'	
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology			PID Result (ppm)	Additional Test	
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.					
5	S-1	0-5'	32"		0-12" Brown SAND and GRAVEL (Fill) 12-32" Brown SILTY-SAND			0.0		
	S-2	5-10'	36"		0-7" Brown SILTY-SAND, trace Gravel 7-36" Brownish-Gray SILTY-SAND			0.0		
10	S-3	10-14'	38"		0-38" Same as above  Refusal @ 14'			0.0		



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-02		
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT		
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"	
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:			
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:	
					Groundwater Depth:		Elevation:		Total Depth of Boring: 15'		
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology					PID Result (ppm)	Additional Test
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.						
5	S-1	0-5'	26"		0-3" ASPHALT 3-14" Brown SAND and GRAVEL (Fill) 14-26" Brown SILTY-SAND					0.0	
	S-2	5-10'	25"		0-25" Same as above					0.0	
10	S-3	10-15'	50"		0-5" Same as above 5-50" Brown Fine SAND, wet  Cease @ 15'					0.0	



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Well set @ 15'. Screen 10-15'

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-03			
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT			
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"		
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:				
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:		
					Groundwater Depth:		Elevation:		Total Depth of Boring: 15'			
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology							
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.					PID Result (ppm)	Additional Test	
5	S-1	0-5'	21"		0-15" Brown SAND and GRAVEL (Fill) 15-21" Black oil-stained soil							0.0
	S-2	5-10'	21"		0-3" Same as above 3-15" Brown SILTY-SAND, wet 15-21" Dark Brown SILTY-SAND, trace Clay					0.0		
	S-3	10-15'	60"		0-25" Same as above 25-35" Gray Fine SAND, trace Silt, wet 35-60" Grayish-Brown Fine SAND and SILT, wet Cease @ 15'					0.0		



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Well set @ 15'. Screen 10-15'

Project: Getchell Ice				Project Number: BE-173		Client: MEDEP		Boring No. B-04		
Address, City, State 1 Union Street, Brewer, Maine						Drilling Contractor: EPI		Drill Rig Type: 6716 DT		
Logged By: John Cressey				Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"	
Drill Crew: Mike Fournier					Completed: 05/09/19		Hammer Type:			
Digsafe Ticket #: 20191819271					Backfilled: Sand		Hammer Weight:		Hammer Drop:	
						Groundwater Depth:		Elevation:		Total Depth of Boring: 15'
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology			PID Result (ppm)	Additional Test	
					Soil Group Name: modifier, color, moisture, density/consistency, grain size, other descriptors					
	S-1	0-5'	14"		0-3" ASPHALT 3-14" Brown SAND and GRAVEL (Fill)			0.0		
5	S-2	5-10'	30"		0-2" Same as above 2-15" Brown SILTY-SAND 15-30" Dark Brown SILTY-SAND			0.0		
10	S-3	10-15'	34"		0-33" Same as above 33-34" ROCK  Cease @ 15'			0.0		



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID



Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-06	
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT	
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:		
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:
					Groundwater Depth:		Elevation:		Total Depth of Boring: 15'	
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology			PID Result (ppm)	Additional Test	
					Soil Group Name: modifier, color, moisture, density/consistency, grain size, other descriptors					
	S-1	0-5'	15"		0-3" ASPHALT 3-15" Brown SAND and GRAVEL (Fill)			0.0		
5	S-2	5-10'	28"		0-2" Same as above 2-15" Dark Brown SILTY-SAND 15-17" ROCK 17-28" Dark Brown SILTY-SAND with Organics			0.0		
10	S-3	10-15'	34"		0-20" Same as above 20-29" Gray Coarse SAND and GRAVEL, wet 29-34" Gray Medium SAND Cease @ 15'			0.0		



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Well set @ 15'. Screen 10-15'

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-07		
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT		
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"	
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:			
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:	
					Groundwater Depth:		Elevation:		Total Depth of Boring: 4'		
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology					PID Result (ppm)	Additional Test
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.						
	S-1	0-4'	25"		0-12" Brown SAND and GRAVEL (Fill) 12-25" Brown Medium SAND					0.0	
5					Refusal @ 4'						
10											



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Well set @ 15'. Screen 10-15'

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-08		
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT		
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"	
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:			
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:	
					Groundwater Depth:		Elevation:		Total Depth of Boring: 6'		
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology					PID Result (ppm)	Additional Test
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.						
5	S-1	0-5'	20"		0-3" ASPHALT 3-5" Dark Brown SAND and GRAVEL (Fill) 5-12" Brown SILTY-SAND, trace Brick 12-18" Dark Brown SILTY-SAND 18-20" ROCK					0.0	
	S-2	5-6'	0"		No recovery						
					Refusal @ 6'						
10											



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Well set @ 15'. Screen 10-15'

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-09		
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT		
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"	
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:			
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:	
					Groundwater Depth:		Elevation:		Total Depth of Boring: 15'		
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology						
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.					PID Result (ppm)	Additional Test
5	S-1	0-5'	17"		0-3" ASPHALT 3-10" Brown SAND and GRAVEL (Fill) 10-13" Brown Medium SAND, wet 13-15" BRICK 15-17" Brown SILTY-SAND, trace Brick						
	S-2	5-10'	6"		0-6" Dark Brown SILTY_SAND					0.0	
	S-3	10-15'	22"		0-3" Same as above 3-22" Grayish-Brown Coarse SAND, wet					0.0	
	Cease @ 15'										



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Well set @ 15'. Screen 10-15'



Project: Getchell Ice				Project Number: BE-173		Client: MEDEP		Boring No. B-10		
Address, City, State 1 Union Street, Brewer, Maine						Drilling Contractor: EPI		Drill Rig Type: 6716 DT		
Logged By: John Cressey				Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"	
Drill Crew: Mike Fournier					Completed: 05/09/19		Hammer Type:			
Digsafe Ticket #: 20191819271					Backfilled: Sand		Hammer Weight:		Hammer Drop:	
						Groundwater Depth:		Elevation:		Total Depth of Boring: 15'
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology			PID Result (ppm)	Additional Test	
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.					
5	S-1	0-5'	32"		0-13" Brown SAND and GRAVEL (Fill) ----- 13-32" Brown SILTY-SAND			0.0		
	S-2	5-10'	39"		0-1" ROCK ----- 1-4" Brown SILTY-SAND, trace Gravel 4-39" Brownish-Gray SILTY-SAND, moist			0.0		
10	S-3	10-15'	60"		0-11" Same as above ----- 11-60" Brown SILTY-SAND, wet			0.0		
					Cease @ 15'					



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Set well @ 15'. Screen 10-15'.

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-11	
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT	
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:		
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:
					Groundwater Depth:		Elevation:		Total Depth of Boring: 15'	
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology			PID Result (ppm)	Additional Test	
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.					
5	S-1	0-5'	38"		0-16" Brown SAND and GRAVEL (Fill) 16-38" Brown SILTY-SAND			0.0		
	S-2	5-10'	36"		0-7" ROCK 7-36" Brownish-Gray SILTY-SAND, moist			0.0		
10	S-3	10-15'	52"		0-9" Same as above 11-52" Brown SILTY-SAND, wet			0.0		
					Cease @ 15'					



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID

Project: Getchell Ice					Project Number: BE-173		Client: MEDEP		Boring No. B-12	
Address, City, State 1 Union Street, Brewer, Maine							Drilling Contractor: EPI		Drill Rig Type: 6716 DT	
Logged By: John Cressey					Date	Started: 05/09/19		Bit Type:		Diameter: 2 1/4"
Drill Crew: Mike Fournier						Completed: 05/09/19		Hammer Type:		
Digsafe Ticket #: 20191819271						Backfilled: Sand		Hammer Weight:		Hammer Drop:
					Groundwater Depth:		Elevation:		Total Depth of Boring: 5'	
Depth (feet)	Sample Number	Penetration	Recovery	Blow Counts (blows/foot)	Lithology			PID Result (ppm)	Additional Test	
					<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.					
5	S-1	0-5'	23"		0-8" Blackish-Brown SILTY-SAND			0.0		
					8-15" Brown SILTY-SAND, trace Gravel			0.0		
					15-23" Concrete					
10					Refusal @ 5'					



## Boring Log: Sheet 1 of 1

Notes:

1. Soils screened for VOCs with a MiniRae 3000 PID
2. Soil sample collected 0-2' for lab analysis



## ANALYTICAL REPORT

Lab Number:	L1919756
Client:	Beacon Environmental Consultants, LLC P.O. Box 2154 33 Hawthorne Drive Windham, ME 04062
ATTN:	John Cressey
Phone:	(207) 376-5001
Project Name:	GETCHELL ICE
Project Number:	BE-173
Report Date:	05/22/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1919756-01	MW-09	WATER	BREWER, ME	05/10/19 07:50	05/10/19
L1919756-02	MW-06	WATER	BREWER, ME	05/10/19 08:10	05/10/19
L1919756-03	MW-13	WATER	BREWER, ME	05/10/19 08:10	05/10/19
L1919756-04	MW-03	WATER	BREWER, ME	05/10/19 08:55	05/10/19
L1919756-05	MW-02	WATER	BREWER, ME	05/10/19 09:30	05/10/19
L1919756-06	MW-10	WATER	BREWER, ME	05/10/19 10:00	05/10/19
L1919756-07	TRIP BLANK	WATER	BREWER, ME	05/10/19 00:00	05/10/19

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

### Case Narrative (continued)

#### Sample Receipt

L1919756-04: One container for the Volatile Organics analysis was received broken; however, there was adequate sample remaining to perform the requested analysis.

L1919756-04: One container for the VPH analysis was received broken; however, there was adequate sample remaining to perform the requested analysis.

#### EPH

L1919756-01: The surrogate recovery was outside the acceptance criteria for chloro-octadecane (34%); however, re-fractionation achieved a similar result: chloro-octadecane (32%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 05/22/19

# ORGANICS



# VOLATILES

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-01  
 Client ID: MW-09  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 07:50  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 10:04  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-01  
 Client ID: MW-09  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 07:50  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	15		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

**Lab ID:** L1919756-01  
**Client ID:** MW-09  
**Sample Location:** BREWER, ME

**Date Collected:** 05/10/19 07:50  
**Date Received:** 05/10/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-02  
 Client ID: MW-06  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 10:26  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

## SAMPLE RESULTS

Lab ID: L1919756-02

Date Collected: 05/10/19 08:10

Client ID: MW-06

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	10		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-02  
 Client ID: MW-06  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	113		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-03  
 Client ID: MW-13  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 10:48  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

## SAMPLE RESULTS

Lab ID: L1919756-03

Date Collected: 05/10/19 08:10

Client ID: MW-13

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	23		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

**Lab ID:** L1919756-03  
**Client ID:** MW-13  
**Sample Location:** BREWER, ME

**Date Collected:** 05/10/19 08:10  
**Date Received:** 05/10/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	107		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-04  
 Client ID: MW-03  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:55  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 11:10  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

## SAMPLE RESULTS

Lab ID: L1919756-04

Date Collected: 05/10/19 08:55

Client ID: MW-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

**Lab ID:** L1919756-04  
**Client ID:** MW-03  
**Sample Location:** BREWER, ME

**Date Collected:** 05/10/19 08:55  
**Date Received:** 05/10/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-05  
 Client ID: MW-02  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 09:30  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 11:32  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-05  
 Client ID: MW-02  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 09:30  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	14		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

**Lab ID:** L1919756-05  
**Client ID:** MW-02  
**Sample Location:** BREWER, ME

**Date Collected:** 05/10/19 09:30  
**Date Received:** 05/10/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-06  
 Client ID: MW-10  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 10:00  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 11:54  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

## SAMPLE RESULTS

Lab ID: L1919756-06

Date Collected: 05/10/19 10:00

Client ID: MW-10

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	29		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	12		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	26		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

**Lab ID:** L1919756-06  
**Client ID:** MW-10  
**Sample Location:** BREWER, ME

**Date Collected:** 05/10/19 10:00  
**Date Received:** 05/10/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	82		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-07  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 00:00  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/19/19 08:58  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	1.0	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	0.20	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-07  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 00:00  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	1.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	1.0	--	1
1,3-Dichloropropane	ND		ug/l	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-07  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 00:00  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	1.0	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/19/19 08:36  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1238818-5					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	1.0	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	0.20	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/19/19 08:36  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1238818-5					
1,2-Dichloroethene, Total	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	1.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	1.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	1.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	1.0	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/19/19 08:36  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1238818-5					
1,3-Dichloropropane	ND		ug/l	1.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	1.0	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	1.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,3,5-Trichlorobenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	1.0	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	1.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	1.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	1.0	--



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/19/19 08:36  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1238818-5					
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--
Pentachloroethane	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	98		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1238818-3 WG1238818-4								
Methylene chloride	120		110		70-130	9		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	95		110		70-130	15		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	97		98		70-130	1		20
2-Chloroethylvinyl ether	64	Q	70		70-130	9		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	100		100		75-130	0		25
Trichlorofluoromethane	130		120		62-150	8		20
1,2-Dichloroethane	100		96		70-130	4		20
1,1,1-Trichloroethane	120		110		67-130	9		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	93		92		70-130	1		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	100		97		54-136	3		20
1,1,2,2-Tetrachloroethane	87		86		67-130	1		20
Benzene	110		100		70-130	10		25
Toluene	99		99		70-130	0		25
Ethylbenzene	100		99		70-130	1		20
Chloromethane	93		90		64-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1238818-3 WG1238818-4								
Bromomethane	150	Q	140	Q	39-139	7		20
Vinyl chloride	120		120		55-140	0		20
Chloroethane	99		110		55-138	11		20
1,1-Dichloroethene	110		110		61-145	0		25
trans-1,2-Dichloroethene	120		110		70-130	9		20
Trichloroethene	110		110		70-130	0		25
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		97		63-130	3		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		100		70-130	5		20
cis-1,2-Dichloroethene	120		110		70-130	9		20
Dibromomethane	110		110		70-130	0		20
1,4-Dichlorobutane	78		78		70-130	0		20
Iodomethane	22	Q	25	Q	70-130	13		20
1,2,3-Trichloropropane	89		89		64-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	100		94		36-147	6		20
Acetone	110		110		58-148	0		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	82		74		63-138	10		20
Vinyl acetate	77		76		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1238818-3 WG1238818-4								
4-Methyl-2-pentanone	82		84		59-130	2		20
2-Hexanone	66		67		57-130	2		20
Ethyl methacrylate	78		78		70-130	0		20
Acrolein	120		120		70-130	0		20
Acrylonitrile	91		96		70-130	5		20
Bromochloromethane	130		120		70-130	8		20
Tetrahydrofuran	65		88		58-130	30	Q	20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	97		99		70-130	2		20
1,3-Dichloropropane	96		97		70-130	1		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		98		70-130	2		20
n-Butylbenzene	100		98		53-136	2		20
sec-Butylbenzene	98		96		70-130	2		20
tert-Butylbenzene	100		98		70-130	2		20
o-Chlorotoluene	96		93		70-130	3		20
p-Chlorotoluene	99		97		70-130	2		20
1,2-Dibromo-3-chloropropane	98		97		41-144	1		20
Hexachlorobutadiene	110		100		63-130	10		20
Isopropylbenzene	99		98		70-130	1		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	95		93		70-130	2		20
n-Propylbenzene	100		98		69-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1238818-3 WG1238818-4								
1,2,3-Trichlorobenzene	110		110		70-130	0		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,3,5-Trichlorobenzene	120		110		70-130	9		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
trans-1,4-Dichloro-2-butene	67	Q	67	Q	70-130	0		20
Halothane	120		120		70-130	0		20
Ethyl ether	110		110		59-134	0		20
Methyl Acetate	90		90		70-130	0		20
Ethyl Acetate	80		80		70-130	0		20
Isopropyl Ether	87		86		70-130	1		20
Cyclohexane	110		110		70-130	0		20
Tert-Butyl Alcohol	144	Q	140	Q	70-130	3		20
Ethyl-Tert-Butyl-Ether	100		100		70-130	0		20
Tertiary-Amyl Methyl Ether	91		87		66-130	4		20
1,4-Dioxane	174	Q	194	Q	56-162	11		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	140	Q	130		70-130	7		20
Methyl cyclohexane	110		110		70-130	0		20
p-Diethylbenzene	100		98		70-130	2		20
4-Ethyltoluene	100		99		70-130	1		20
1,2,4,5-Tetramethylbenzene	97		93		70-130	4		20
Pentachloroethane	98		96		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919756

Report Date: 05/22/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1238818-3 WG1238818-4

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	114		112		70-130



# SEMIVOLATILES

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-01  
 Client ID: MW-09  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 07:50  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/14/19 21:59  
 Analyst: CB

Extraction Method: EPA 3510C  
 Extraction Date: 05/12/19 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.10	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	0.49		ug/l	0.10	--	1
Naphthalene	0.17		ug/l	0.10	--	1
Benzo(a)anthracene	0.21		ug/l	0.10	--	1
Benzo(a)pyrene	0.25		ug/l	0.10	--	1
Benzo(b)fluoranthene	0.32		ug/l	0.10	--	1
Benzo(k)fluoranthene	0.16		ug/l	0.10	--	1
Chrysene	0.25		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	0.16		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	0.17		ug/l	0.10	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	0.18		ug/l	0.10	--	1
Pyrene	0.40		ug/l	0.10	--	1
1-Methylnaphthalene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	0.10		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	40		23-120
2-Fluorobiphenyl	48		15-120
4-Terphenyl-d14	49		41-149

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-02  
 Client ID: MW-06  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/14/19 22:25  
 Analyst: CB

Extraction Method: EPA 3510C  
 Extraction Date: 05/12/19 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.10	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	0.22		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	0.13		ug/l	0.10	--	1
Benzo(a)pyrene	0.16		ug/l	0.10	--	1
Benzo(b)fluoranthene	0.17		ug/l	0.10	--	1
Benzo(k)fluoranthene	ND		ug/l	0.10	--	1
Chrysene	0.14		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	0.14		ug/l	0.10	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--	1
Pyrene	0.23		ug/l	0.10	--	1
1-Methylnaphthalene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	43		15-120
4-Terphenyl-d14	54		41-149

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-03  
 Client ID: MW-13  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/14/19 22:51  
 Analyst: CB

Extraction Method: EPA 3510C  
 Extraction Date: 05/12/19 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.10	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	0.22		ug/l	0.10	--	1
Naphthalene	ND		ug/l	0.10	--	1
Benzo(a)anthracene	0.15		ug/l	0.10	--	1
Benzo(a)pyrene	0.18		ug/l	0.10	--	1
Benzo(b)fluoranthene	0.19		ug/l	0.10	--	1
Benzo(k)fluoranthene	0.10		ug/l	0.10	--	1
Chrysene	0.14		ug/l	0.10	--	1
Acenaphthylene	ND		ug/l	0.10	--	1
Anthracene	ND		ug/l	0.10	--	1
Benzo(ghi)perylene	ND		ug/l	0.10	--	1
Fluorene	ND		ug/l	0.10	--	1
Phenanthrene	0.10		ug/l	0.10	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--	1
Indeno(1,2,3-cd)pyrene	0.10		ug/l	0.10	--	1
Pyrene	0.26		ug/l	0.10	--	1
1-Methylnaphthalene	ND		ug/l	0.10	--	1
2-Methylnaphthalene	ND		ug/l	0.10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	42		15-120
4-Terphenyl-d14	49		41-149

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 05/14/19 19:22  
Analyst: CB

Extraction Method: EPA 3510C  
Extraction Date: 05/12/19 07:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1236264-1					
Acenaphthene	ND		ug/l	0.10	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.10	--
Naphthalene	ND		ug/l	0.10	--
Benzo(a)anthracene	ND		ug/l	0.10	--
Benzo(a)pyrene	ND		ug/l	0.10	--
Benzo(b)fluoranthene	ND		ug/l	0.10	--
Benzo(k)fluoranthene	ND		ug/l	0.10	--
Chrysene	ND		ug/l	0.10	--
Acenaphthylene	ND		ug/l	0.10	--
Anthracene	ND		ug/l	0.10	--
Benzo(ghi)perylene	ND		ug/l	0.10	--
Fluorene	ND		ug/l	0.10	--
Phenanthrene	ND		ug/l	0.10	--
Dibenzo(a,h)anthracene	ND		ug/l	0.10	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	--
Pyrene	ND		ug/l	0.10	--
1-Methylnaphthalene	ND		ug/l	0.10	--
2-Methylnaphthalene	ND		ug/l	0.10	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	49		15-120
4-Terphenyl-d14	62		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1236264-2 WG1236264-3								
Acenaphthene	48		58		40-140	19		40
2-Chloronaphthalene	46		62		40-140	30		40
Fluoranthene	51		61		40-140	18		40
Naphthalene	44		59		40-140	29		40
Benzo(a)anthracene	50		59		40-140	17		40
Benzo(a)pyrene	56		66		40-140	16		40
Benzo(b)fluoranthene	49		58		40-140	17		40
Benzo(k)fluoranthene	58		67		40-140	14		40
Chrysene	50		59		40-140	17		40
Acenaphthylene	51		66		40-140	26		40
Anthracene	53		64		40-140	19		40
Benzo(ghi)perylene	44		50		40-140	13		40
Fluorene	50		60		40-140	18		40
Phenanthrene	45		54		40-140	18		40
Dibenzo(a,h)anthracene	49		57		40-140	15		40
Indeno(1,2,3-cd)pyrene	47		53		40-140	12		40
Pyrene	51		61		40-140	18		40
1-Methylnaphthalene	50		68		40-140	31		40
2-Methylnaphthalene	47		62		40-140	28		40



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919756

Report Date: 05/22/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1236264-2 WG1236264-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	47		61		23-120
2-Fluorobiphenyl	48		63		15-120
4-Terphenyl-d14	54		63		41-149

# PETROLEUM HYDROCARBONS

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-01

Date Collected: 05/10/19 07:50

Client ID: MW-09

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 14:26

Analyst: MKS

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container

Sample Temperature upon receipt:

Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	98		70-130
2,5-Dibromotoluene-FID	109		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-01

Date Collected: 05/10/19 07:50

Client ID: MW-09

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:43

Analytical Date: 05/14/19 22:51

Cleanup Method1: EPH-04-1

Analyst: MEO

Cleanup Date1: 05/13/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved

Sample Temperature upon receipt:

Container  
Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	141		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	34	Q	40-140
o-Terphenyl	51		40-140
2-Fluorobiphenyl	64		40-140
2-Bromonaphthalene	64		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-01 R

Date Collected: 05/10/19 07:50

Client ID: MW-09

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:43

Analytical Date: 05/21/19 03:19

Cleanup Method1: EPH-04-1

Analyst: SR

Cleanup Date1: 05/13/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved

Sample Temperature upon receipt:

Container  
Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	160		ug/l	100	--	1
C19-C36 Aliphatics	106		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	32	Q	40-140
o-Terphenyl	49		40-140
2-Fluorobiphenyl	61		40-140
2-Bromonaphthalene	61		40-140

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-02

Date Collected: 05/10/19 08:10

Client ID: MW-06

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 15:06

Analyst: MKS

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container

Sample Temperature upon receipt:

Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	98		70-130
2,5-Dibromotoluene-FID	109		70-130



**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-02

Date Collected: 05/10/19 08:10

Client ID: MW-06

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:43

Analytical Date: 05/14/19 21:47

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/13/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved

Sample Temperature upon receipt:

Container  
Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	70		40-140

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-03

Date Collected: 05/10/19 08:10

Client ID: MW-13

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 15:47

Analyst: MKS

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved

Sample Temperature upon receipt:

Container  
Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	98		70-130
2,5-Dibromotoluene-FID	108		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-03

Date Collected: 05/10/19 08:10

Client ID: MW-13

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:43

Analytical Date: 05/14/19 22:19

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/13/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	70		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-04

Date Collected: 05/10/19 08:55

Client ID: MW-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 16:27

Analyst: MKS

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container

Sample Temperature upon receipt:

Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	97		70-130
2,5-Dibromotoluene-FID	107		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-04

Date Collected: 05/10/19 08:55

Client ID: MW-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:37

Analytical Date: 05/15/19 15:47

M.S. Analytical Date: 05/16/19 16:57

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: JJW

Cleanup Date1: 05/15/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-04

Date Collected: 05/10/19 08:55

Client ID: MW-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	67		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	91		40-140
2-Bromonaphthalene	91		40-140
O-Terphenyl-MS	74		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-05

Date Collected: 05/10/19 09:30

Client ID: MW-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 17:07

Analyst: MKS

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container  
Received on Ice

Sample Temperature upon receipt:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Petroleum Hydrocarbons - Westborough Lab</b>						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	97		70-130
2,5-Dibromotoluene-FID	108		70-130



**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-05

Date Collected: 05/10/19 09:30

Client ID: MW-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:37

Analytical Date: 05/15/19 17:42

M.S. Analytical Date: 05/16/19 17:21

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: JJW

Cleanup Date1: 05/15/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved

Sample Temperature upon receipt:

Container

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-05

Date Collected: 05/10/19 09:30

Client ID: MW-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	83		40-140
2-Fluorobiphenyl	94		40-140
2-Bromonaphthalene	94		40-140
O-Terphenyl-MS	77		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-06

Date Collected: 05/10/19 10:00

Client ID: MW-10

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 17:48

Analyst: MKS

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container  
Received on Ice

Sample Temperature upon receipt:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Petroleum Hydrocarbons - Westborough Lab</b>						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	94		70-130
2,5-Dibromotoluene-FID	104		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-06

Date Collected: 05/10/19 10:00

Client ID: MW-10

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/13/19 02:37

Analytical Date: 05/15/19 18:21

M.S. Analytical Date: 05/16/19 17:46

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: JJW

Cleanup Date1: 05/15/19

**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved  
Container

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**SAMPLE RESULTS**

Lab ID: L1919756-06

Date Collected: 05/10/19 10:00

Client ID: MW-10

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	73		40-140
o-Terphenyl	86		40-140
2-Fluorobiphenyl	94		40-140
2-Bromonaphthalene	94		40-140
O-Terphenyl-MS	79		40-140

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 05/15/19 04:11  
Analyst: DG

M.S. Analytical Date: 05/15/19 11:44  
M.S. Analyst: DV

Extraction Method: EPA 3510C  
Extraction Date: 05/13/19 02:37  
Cleanup Method: EPH-04-1  
Cleanup Date: 05/14/19

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 04-06 Batch: WG1236369-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--
Naphthalene	ND		ug/l	0.400	--
2-Methylnaphthalene	ND		ug/l	0.400	--
Acenaphthylene	ND		ug/l	0.400	--
Acenaphthene	ND		ug/l	0.400	--
Fluorene	ND		ug/l	0.400	--
Phenanthrene	ND		ug/l	0.400	--
Anthracene	ND		ug/l	0.400	--
Fluoranthene	ND		ug/l	0.400	--
Pyrene	ND		ug/l	0.400	--
Benzo(a)anthracene	ND		ug/l	0.400	--
Chrysene	ND		ug/l	0.400	--
Benzo(b)fluoranthene	ND		ug/l	0.400	--
Benzo(k)fluoranthene	ND		ug/l	0.400	--
Benzo(a)pyrene	ND		ug/l	0.200	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--
Benzo(ghi)perylene	ND		ug/l	0.400	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 05/15/19 04:11  
Analyst: DG

05/15/19 11:44  
DV

Extraction Method: EPA 3510C  
Extraction Date: 05/13/19 02:37  
Cleanup Method: EPH-04-1  
Cleanup Date: 05/14/19

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 04-06 Batch: WG1236369-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	77		40-140
O-Terphenyl-MS	59		40-140



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 05/14/19 20:44  
Analyst: MEO

Extraction Method: EPA 3510C  
Extraction Date: 05/13/19 02:43  
Cleanup Method: EPH-04-1  
Cleanup Date: 05/13/19

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-03 Batch: WG1236372-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	66		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	62		40-140
2-Bromonaphthalene	62		40-140

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 131,VPH-18-2.1  
Analytical Date: 05/16/19 09:45  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-06 Batch: WG1238305-4					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	ND		ug/l	50.0	--
C9-C10 Aromatics	ND		ug/l	50.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	86		70-130
2,5-Dibromotoluene-FID	94		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 04-06 Batch: WG1236369-2 WG1236369-3								
C9-C18 Aliphatics	51		54		40-140	6		25
C19-C36 Aliphatics	62		64		40-140	3		25
C11-C22 Aromatics	73		80		40-140	9		25
Naphthalene	55		65		40-140	17		25
2-Methylnaphthalene	56		69		40-140	21		25
Acenaphthylene	66		80		40-140	19		25
Acenaphthene	67		80		40-140	18		25
Fluorene	70		83		40-140	17		25
Phenanthrene	67		80		40-140	18		25
Anthracene	74		86		40-140	15		25
Fluoranthene	77		91		40-140	17		25
Pyrene	78		95		40-140	20		25
Benzo(a)anthracene	73		87		40-140	18		25
Chrysene	69		81		40-140	16		25
Benzo(b)fluoranthene	69		84		40-140	20		25
Benzo(k)fluoranthene	72		87		40-140	19		25
Benzo(a)pyrene	72		84		40-140	15		25
Indeno(1,2,3-cd)Pyrene	77		91		40-140	17		25
Dibenzo(a,h)anthracene	76		89		40-140	16		25
Benzo(ghi)perylene	68		81		40-140	17		25
Nonane (C9)	37		40		30-140	8		25
Decane (C10)	42		45		40-140	7		25
Dodecane (C12)	46		50		40-140	8		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 04-06 Batch: WG1236369-2 WG1236369-3								
Tetradecane (C14)	52		56		40-140	7		25
Hexadecane (C16)	56		59		40-140	5		25
Octadecane (C18)	58		60		40-140	3		25
Nonadecane (C19)	57		59		40-140	3		25
Eicosane (C20)	57		59		40-140	3		25
Docosane (C22)	59		61		40-140	3		25
Tetracosane (C24)	58		59		40-140	2		25
Hexacosane (C26)	58		59		40-140	2		25
Octacosane (C28)	58		60		40-140	3		25
triacontane (C30)	58		60		40-140	3		25
Hexatriacontane (C36)	60		63		40-140	5		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	54		54		40-140
o-Terphenyl	71		73		40-140
2-Fluorobiphenyl	75		72		40-140
2-Bromonaphthalene	76		74		40-140
O-Terphenyl-MS	76		91		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG1236372-2 WG1236372-3								
C9-C18 Aliphatics	63		60		40-140	5		25
C19-C36 Aliphatics	82		77		40-140	6		25
C11-C22 Aromatics	69		54		40-140	24		25
Naphthalene	48		40		40-140	18		25
2-Methylnaphthalene	50		41		40-140	20		25
Acenaphthylene	57		45		40-140	24		25
Acenaphthene	60		47		40-140	24		25
Fluorene	63		49		40-140	25		25
Phenanthrene	68		53		40-140	25		25
Anthracene	69		54		40-140	24		25
Fluoranthene	72		56		40-140	25		25
Pyrene	74		57		40-140	26	Q	25
Benzo(a)anthracene	72		56		40-140	25		25
Chrysene	74		58		40-140	24		25
Benzo(b)fluoranthene	73		57		40-140	25		25
Benzo(k)fluoranthene	73		57		40-140	25		25
Benzo(a)pyrene	70		55		40-140	24		25
Indeno(1,2,3-cd)Pyrene	70		54		40-140	26	Q	25
Dibenzo(a,h)anthracene	70		55		40-140	24		25
Benzo(ghi)perylene	65		50		40-140	26	Q	25
Nonane (C9)	45		41		30-140	9		25
Decane (C10)	53		50		40-140	6		25
Dodecane (C12)	59		57		40-140	3		25

## Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG1236372-2 WG1236372-3								
Tetradecane (C14)	64		60		40-140	6		25
Hexadecane (C16)	68		64		40-140	6		25
Octadecane (C18)	74		71		40-140	4		25
Nonadecane (C19)	75		72		40-140	4		25
Eicosane (C20)	78		74		40-140	5		25
Docosane (C22)	80		76		40-140	5		25
Tetracosane (C24)	78		75		40-140	4		25
Hexacosane (C26)	78		75		40-140	4		25
Octacosane (C28)	78		75		40-140	4		25
triacontane (C30)	78		75		40-140	4		25
Hexatriacontane (C36)	81		77		40-140	5		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	71		67		40-140
o-Terphenyl	67		52		40-140
2-Fluorobiphenyl	66		53		40-140
2-Bromonaphthalene	67		53		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

## Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-06 Batch: WG1238305-2 WG1238305-3								
C5-C8 Aliphatics	85		97		70-130	13		25
C9-C12 Aliphatics	89		103		70-130	14		25
C9-C10 Aromatics	79		91		70-130	14		25
Benzene	83		95		70-130	14		25
Toluene	83		95		70-130	13		25
Ethylbenzene	85		98		70-130	14		25
p/m-Xylene	83		95		70-130	13		25
o-Xylene	80		92		70-130	14		25
Methyl tert butyl ether	85		99		70-130	15		25
Naphthalene	83		95		70-130	14		25
1,2,4-Trimethylbenzene	79		91		70-130	14		25
Pentane	81		92		70-130	13		25
2-Methylpentane	87		98		70-130	12		25
2,2,4-Trimethylpentane	91		104		70-130	13		25
n-Nonane	93		106		30-130	13		25
n-Decane	83		95		70-130	14		25
n-Butylcyclohexane	94		107		70-130	13		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	86		96		70-130
2,5-Dibromotoluene-FID	94		105		70-130





## METALS

**Project Name:** GETCHELL ICE

**Lab Number:** L1919756

**Project Number:** BE-173

**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-01

Date Collected: 05/10/19 07:50

Client ID: MW-09

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.052		mg/l	0.010	--	1	05/20/19 14:24	05/20/19 22:41	EPA 3005A	1,6010D	AB



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-02  
 Client ID: MW-06  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.059		mg/l	0.010	--	1	05/20/19 14:24	05/20/19 23:04	EPA 3005A	1,6010D	AB



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-03  
 Client ID: MW-13  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 08:10  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.044		mg/l	0.010	--	1	05/20/19 14:24	05/20/19 23:09	EPA 3005A	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919756

**Project Number:** BE-173

**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-04

Date Collected: 05/10/19 08:55

Client ID: MW-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		mg/l	0.010	--	1	05/20/19 14:24	05/20/19 23:28	EPA 3005A	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919756

**Project Number:** BE-173

**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-05

Date Collected: 05/10/19 09:30

Client ID: MW-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.036		mg/l	0.010	--	1	05/20/19 14:24	05/20/19 23:32	EPA 3005A	1,6010D	AB



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

**SAMPLE RESULTS**

Lab ID: L1919756-06  
 Client ID: MW-10  
 Sample Location: BREWER, ME

Date Collected: 05/10/19 10:00  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		mg/l	0.010	--	1	05/20/19 14:24	05/20/19 23:37	EPA 3005A	1,6010D	AB





Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1239053-1									
Lead, Total	ND	mg/l	0.010	--	1	05/20/19 14:24	05/20/19 22:31	1,6010D	AB

### Prep Information

Digestion Method: EPA 3005A

## Lab Control Sample Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919756

Project Number: BE-173

Report Date: 05/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1239053-2								
Lead, Total	105		-		80-120	-		

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Total Metals - Mansfield Lab Associated sample(s): 01-06    QC Batch ID: WG1239053-3    QC Sample: L1919756-01    Client ID: MW-09												
Lead, Total	0.052	0.51	0.537	95		-	-		75-125	-		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919756

Report Date: 05/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1239053-4 QC Sample: L1919756-01 Client ID: MW-09						
Lead, Total	0.052	0.052	mg/l	1		20

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919756-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-01D	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-01E	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-01F	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-01G	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-TI(180)
L1919756-01H	Amber 250ml unpreserved	A	8	8	4.6	Y	Absent		PAHTCL-SIM-LVI(7)
L1919756-01I	Amber 250ml unpreserved	A	8	8	4.6	Y	Absent		PAHTCL-SIM-LVI(7)
L1919756-01J	Amber 1000ml HCl preserved	A	<2	<2	4.6	Y	Absent		EPH-10(14)
L1919756-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-02D	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-02E	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-02F	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-02G	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-TI(180)
L1919756-02H	Amber 250ml unpreserved	A	8	8	4.6	Y	Absent		PAHTCL-SIM-LVI(7)
L1919756-02I	Amber 250ml unpreserved	A	8	8	4.6	Y	Absent		PAHTCL-SIM-LVI(7)
L1919756-02J	Amber 1000ml HCl preserved	A	<2	<2	4.6	Y	Absent		EPH-10(14)
L1919756-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)

**Project Name:** GETCHELL ICE**Lab Number:** L1919756**Project Number:** BE-173**Report Date:** 05/22/19**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919756-03D	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-03E	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-03F	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-03G	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-TI(180)
L1919756-03H	Amber 250ml unpreserved	A	NA		4.6	Y	Absent		PAHTCL-SIM-LVI(7)
L1919756-03I	Amber 250ml unpreserved	A	NA		4.6	Y	Absent		PAHTCL-SIM-LVI(7)
L1919756-03J	Amber 1000ml HCl preserved	A	<2	<2	4.6	Y	Absent		EPH-10(14)
L1919756-04A	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-04B	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-04C	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-04D	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-04E	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-04F	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-04G	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-TI(180)
L1919756-04H	Amber 1000ml HCl preserved	A	<2	<2	4.6	Y	Absent		EPH-MS-10(14)
L1919756-05A	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-05B	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-05C	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-05D	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-05E	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-05F	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-05G	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-TI(180)
L1919756-05H	Amber 1000ml HCl preserved	A	<2	<2	4.6	Y	Absent		EPH-MS-10(14)
L1919756-06A	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-06B	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-06C	Vial HCl preserved	A	NA		4.6	Y	Absent		VPH-18(14)
L1919756-06D	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-06E	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

Serial\_No:05221913:32  
**Lab Number:** L1919756  
**Report Date:** 05/22/19

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919756-06F	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-06G	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-TI(180)
L1919756-06H	Amber 1000ml HCl preserved	A	<2	<2	4.6	Y	Absent		EPH-MS-10(14)
L1919756-07A	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)
L1919756-07B	Vial HCl preserved	A	NA		4.6	Y	Absent		ME-8260(14)

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

Report Format: Data Usability Report





**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919756  
**Report Date:** 05/22/19

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.
- 131 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, February 2018, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, June 1, 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

**EPA 6860:** SCM: Perchlorate

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

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The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.



# CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive  
Westboro, MA 01581  
Tel: 508-898-9220

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

Date Rec'd in Lab: 5/10/19

ALPHA Job #: L1919756

### Client Information

Client: BEACON ENVIRONMENTAL  
Address: PO Box 2154  
WINDHAM, ME 04062  
Phone: (207) 376-5001  
Email: JCRESSEY@BEACONMAINE.COM

### Project Information

Project Name: GETCHEL ICE  
Project Location: BREWER, ME  
Project #: BE-173  
Project Manager: CRESSEY  
ALPHA Quote #: 8004

### Report Information - Data Deliverables

ADEX  EMAIL

### Billing Information

Same as Client info PO #: BE-173

### Regulatory Requirements & Project Information Requirements

Yes  No MA MCP Analytical Methods  Yes  No CT RCP Analytical Methods  
 Yes  No Matrix Spike Required on this SDG? (Required for MCP Inorganics)  
 Yes  No GW1 Standards (Info Required for Metals & EPH with Targets)  
 Yes  No NPDES RGP  
 Other State /Fed Program \_\_\_\_\_ Criteria \_\_\_\_\_

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)  
Date Due:

Additional Project Information:

ANALYSIS	VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input checked="" type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	EPH: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPI3	VPH: <input checked="" type="checkbox"/> Ranges & Targets <input checked="" type="checkbox"/> Ranges Only	<input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	EPH - RANGES & TARGETS	TOTAL Pb	SAMPLE INFO	TOTAL # BOTTLES
										Filtration	
										<input type="checkbox"/> Field	
										<input type="checkbox"/> Lab to do	
										Preservation	
										<input type="checkbox"/> Lab to do	
										Sample Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
19756-01	MW-09	5/10	750		
-02	MW-06		810		
-03	MW-13		810		
-04	MW-03		855		
-05	MW-02		930		
-06	MW-10		1000		
-07	TRIP BLANK				

**Container Type**  
P= Plastic  
A= Amber glass  
V= Vial  
G= Glass  
B= Bacteria cup  
C= Cube  
O= Other  
E= Encore  
D= BOD Bottle

**Preservative**  
A= None  
B= HCl  
C= HNO<sub>3</sub>  
D= H<sub>2</sub>SO<sub>4</sub>  
E= NaOH  
F= MeOH  
G= NaHSO<sub>4</sub>  
H= Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
I= Ascorbic Acid  
J= NH<sub>4</sub>Cl  
K= Zn Acetate  
O= Other

Container Type	V A	A V	A P
Preservative	B A	B B	B C

Relinquished By: *[Signature]* Date/Time: 5/10/19 1545  
 Received By: *[Signature]* Date/Time: 5/10/19 1625

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.  
FORM NO: 01-01 (rev. 12-Mar-2012)



## ANALYTICAL REPORT

Lab Number:	L1919770
Client:	Beacon Environmental Consultants, LLC P.O. Box 2154 33 Hawthorne Drive Windham, ME 04062
ATTN:	John Cressey
Phone:	(207) 376-5001
Project Name:	GETCHELL ICE
Project Number:	BE-173
Report Date:	05/17/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1919770-01	SV-01	SOIL_VAPOR	BREWER, ME	05/09/19 09:41	05/10/19
L1919770-02	SSV-01	SOIL_VAPOR	BREWER, ME	05/09/19 12:40	05/10/19
L1919770-03	SV-02	SOIL_VAPOR	BREWER, ME	05/09/19 11:40	05/10/19
L1919770-04	SSV-02	SOIL_VAPOR	BREWER, ME	05/09/19 11:04	05/10/19
L1919770-05	SSV-03	SOIL_VAPOR	BREWER, ME	05/09/19 10:58	05/10/19
L1919770-06	SV-03	SOIL_VAPOR	BREWER, ME	05/09/19 12:43	05/10/19

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on May 7, 2019. The canister certification results are provided as an addendum.

L1919770-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

#### Petroleum Hydrocarbons in Air

All significant concentrations of non-petroleum VOCs detected in the TO-15 analysis were subtracted from the corresponding hydrocarbon ranges.

L1919770-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 05/17/19



**AIR**

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-01  
 Client ID: SV-01  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 09:41  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/16/19 23:31  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	17.0	0.500	--	29.3	0.861	--		1
Dichlorodifluoromethane	0.602	0.200	--	2.98	0.989	--		1
Chloromethane	0.482	0.200	--	0.995	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	0.020	0.020	--	0.051	0.051	--		1
1,3-Butadiene	3.75	0.020	--	8.30	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	8.31	5.00	--	15.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.29	1.00	--	17.3	2.38	--		1
Trichlorofluoromethane	5.57	0.050	--	31.3	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.628	0.200	--	1.96	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.065	0.050	--	0.498	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-01

Date Collected: 05/09/19 09:41

Client ID: SV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	1.62	0.500	--	4.78	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.058	0.020	--	0.283	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	1.43	0.200	--	5.04	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	4.35	0.100	--	13.9	0.319	--		1
Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--		1
Cyclohexane	0.456	0.200	--	1.57	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	0.485	0.200	--	2.27	0.934	--		1
Heptane	1.05	0.200	--	4.30	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	3.71	0.050	--	14.0	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-01

Date Collected: 05/09/19 09:41

Client ID: SV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.046	0.020	--	0.312	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	1.24	0.020	--	5.39	0.087	--		1
p/m-Xylene	4.08	0.040	--	17.7	0.174	--		1
Xylene (Total)	5.59	0.020	--	24.3	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.190	0.020	--	0.809	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	1.51	0.020	--	6.56	0.087	--		1
4-Ethyltoluene	0.235	0.020	--	1.16	0.098	--		1
1,3,5-Trimethylbenzene	0.277	0.020	--	1.36	0.098	--		1
1,2,4-Trimethylbenzene	0.845	0.020	--	4.15	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.167	0.020	--	1.00	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.126	0.050	--	0.661	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-02 D

Date Collected: 05/09/19 12:40

Client ID: SSV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 05/17/19 00:02

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Acetone	554	2.00	--	1320	4.75	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-02 D

Date Collected: 05/09/19 12:40

Client ID: SSV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/17/19 00:02

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	3.99	1.00	--	6.87	1.72	--		2
Dichlorodifluoromethane	3.12	0.400	--	15.4	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.100	--	ND	0.699	--		2
Vinyl chloride	ND	0.040	--	ND	0.102	--		2
1,3-Butadiene	0.542	0.040	--	1.20	0.089	--		2
Bromomethane	ND	0.040	--	ND	0.155	--		2
Chloroethane	ND	0.200	--	ND	0.528	--		2
Ethyl Alcohol	60.8	10.0	--	115	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Trichlorofluoromethane	98.7	0.100	--	555	0.562	--		2
iso-Propyl Alcohol	32.6	1.00	--	80.1	2.46	--		2
1,1-Dichloroethene	ND	0.040	--	ND	0.159	--		2
1,2-Dichloroethene (total)	0.402	0.040	--	1.59	0.159	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
1,3-Dichloropropene, Total	ND	0.040	--	ND	0.182	--		2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.100	--	ND	0.766	--		2
trans-1,2-Dichloroethene	0.402	0.040	--	1.59	0.159	--		2
1,1-Dichloroethane	ND	0.040	--	ND	0.162	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
Vinyl acetate	ND	2.00	--	ND	7.04	--		2



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-02 D

Date Collected: 05/09/19 12:40

Client ID: SSV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	6.87	1.00	--	20.3	2.95	--		2
cis-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--		2
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	0.194	0.040	--	0.947	0.195	--		2
Tetrahydrofuran	3.05	1.00	--	9.00	2.95	--		2
1,2-Dichloroethane	ND	0.040	--	ND	0.162	--		2
n-Hexane	1.10	0.400	--	3.88	1.41	--		2
1,1,1-Trichloroethane	0.188	0.040	--	1.03	0.218	--		2
Benzene	0.766	0.200	--	2.45	0.639	--		2
Carbon tetrachloride	0.040	0.040	--	0.252	0.252	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.040	--	ND	0.185	--		2
Bromodichloromethane	ND	0.040	--	ND	0.268	--		2
1,4-Dioxane	ND	0.200	--	ND	0.721	--		2
Trichloroethene	0.050	0.040	--	0.269	0.215	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	1.15	0.400	--	4.71	1.64	--		2
cis-1,3-Dichloropropene	ND	0.040	--	ND	0.182	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.040	--	ND	0.182	--		2
1,1,2-Trichloroethane	ND	0.040	--	ND	0.218	--		2
Toluene	1.04	0.100	--	3.92	0.377	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.040	--	ND	0.341	--		2
1,2-Dibromoethane	ND	0.040	--	ND	0.307	--		2
Tetrachloroethene	19.7	0.040	--	134	0.271	--		2



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-02 D

Date Collected: 05/09/19 12:40

Client ID: SSV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.200	--	ND	0.921	--		2
Ethylbenzene	0.410	0.040	--	1.78	0.174	--		2
p/m-Xylene	1.29	0.080	--	5.60	0.347	--		2
Xylene (Total)	2.12	0.040	--	9.21	0.174	--		2
Bromoform	ND	0.040	--	ND	0.414	--		2
Styrene	0.136	0.040	--	0.579	0.170	--		2
1,1,2,2-Tetrachloroethane	0.060	0.040	--	0.412	0.275	--		2
o-Xylene	0.838	0.040	--	3.64	0.174	--		2
4-Ethyltoluene	0.284	0.040	--	1.40	0.197	--		2
1,3,5-Trimethylbenzene	0.548	0.040	--	2.69	0.197	--		2
1,2,4-Trimethylbenzene	1.66	0.040	--	8.16	0.197	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.040	--	ND	0.240	--		2
1,4-Dichlorobenzene	ND	0.040	--	ND	0.240	--		2
1,2-Dichlorobenzene	ND	0.040	--	ND	0.240	--		2
1,2,4-Trichlorobenzene	ND	0.100	--	ND	0.742	--		2
Naphthalene	ND	0.100	--	ND	0.524	--		2
Hexachlorobutadiene	ND	0.100	--	ND	1.07	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140





**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-03  
 Client ID: SV-02  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:40  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/17/19 00:34  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	2.41	0.500	--	4.15	0.861	--		1
Dichlorodifluoromethane	0.788	0.200	--	3.90	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.355	0.020	--	0.785	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	7.37	5.00	--	13.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.56	1.00	--	18.0	2.38	--		1
Trichlorofluoromethane	8.69	0.050	--	48.8	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.064	0.050	--	0.491	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-03

Date Collected: 05/09/19 11:40

Client ID: SV-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	0.547	0.500	--	1.61	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.163	0.020	--	0.796	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.371	0.200	--	1.31	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.270	0.100	--	0.863	0.319	--		1
Carbon tetrachloride	10.0	0.020	--	62.9	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.497	0.050	--	1.87	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-03

Date Collected: 05/09/19 11:40

Client ID: SV-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.105	0.020	--	0.712	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.397	0.020	--	1.72	0.087	--		1
p/m-Xylene	1.32	0.040	--	5.73	0.174	--		1
Xylene (Total)	1.93	0.020	--	8.38	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.044	0.020	--	0.187	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.613	0.020	--	2.66	0.087	--		1
4-Ethyltoluene	0.133	0.020	--	0.654	0.098	--		1
1,3,5-Trimethylbenzene	0.162	0.020	--	0.796	0.098	--		1
1,2,4-Trimethylbenzene	0.636	0.020	--	3.13	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.152	0.020	--	0.914	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.176	0.050	--	0.923	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-04  
 Client ID: SSV-02  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:04  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/17/19 01:39  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	2.40	0.500	--	4.13	0.861	--		1
Dichlorodifluoromethane	1.04	0.200	--	5.14	0.989	--		1
Chloromethane	0.457	0.200	--	0.944	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.344	0.020	--	0.761	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	7.51	5.00	--	14.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	20.0	1.00	--	47.5	2.38	--		1
Trichlorofluoromethane	1.12	0.050	--	6.29	0.281	--		1
iso-Propyl Alcohol	0.758	0.500	--	1.86	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.763	0.200	--	2.38	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-04  
 Client ID: SSV-02  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:04  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	1.20	0.500	--	3.54	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.076	0.020	--	0.371	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.544	0.200	--	1.92	0.705	--		1
1,1,1-Trichloroethane	0.027	0.020	--	0.147	0.109	--		1
Benzene	0.440	0.100	--	1.41	0.319	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Cyclohexane	0.774	0.200	--	2.66	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.314	0.020	--	1.69	0.107	--		1
2,2,4-Trimethylpentane	0.310	0.200	--	1.45	0.934	--		1
Heptane	0.345	0.200	--	1.41	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.656	0.050	--	2.47	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-04

Date Collected: 05/09/19 11:04

Client ID: SSV-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.839	0.020	--	5.69	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.272	0.020	--	1.18	0.087	--		1
p/m-Xylene	0.960	0.040	--	4.17	0.174	--		1
Xylene (Total)	1.30	0.020	--	5.65	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.341	0.020	--	1.48	0.087	--		1
4-Ethyltoluene	0.037	0.020	--	0.182	0.098	--		1
1,3,5-Trimethylbenzene	0.104	0.020	--	0.511	0.098	--		1
1,2,4-Trimethylbenzene	0.249	0.020	--	1.22	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.021	0.020	--	0.126	0.120	--		1
1,4-Dichlorobenzene	0.065	0.020	--	0.391	0.120	--		1
1,2-Dichlorobenzene	0.238	0.020	--	1.43	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.059	0.050	--	0.309	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-05  
 Client ID: SSV-03  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:58  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/17/19 02:12  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	1.93	0.500	--	3.32	0.861	--		1
Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--		1
Chloromethane	0.847	0.200	--	1.75	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.339	0.020	--	0.750	0.044	--		1
Bromomethane	0.043	0.020	--	0.167	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	16.2	5.00	--	30.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	107	1.00	--	254	2.38	--		1
Trichlorofluoromethane	1.66	0.050	--	9.33	0.281	--		1
iso-Propyl Alcohol	6.36	0.500	--	15.6	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.599	0.200	--	1.87	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.066	0.050	--	0.506	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-05

Date Collected: 05/09/19 10:58

Client ID: SSV-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	2.08	0.500	--	6.13	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.031	0.020	--	0.151	0.098	--		1
Tetrahydrofuran	0.830	0.500	--	2.45	1.47	--		1
1,2-Dichloroethane	0.021	0.020	--	0.085	0.081	--		1
n-Hexane	0.503	0.200	--	1.77	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.580	0.100	--	1.85	0.319	--		1
Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	0.419	0.200	--	1.96	0.934	--		1
Heptane	0.449	0.200	--	1.84	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	1.33	0.050	--	5.01	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1





**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-05

Date Collected: 05/09/19 10:58

Client ID: SSV-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.035	0.020	--	0.237	0.136	--		1
Chlorobenzene	0.137	0.100	--	0.631	0.461	--		1
Ethylbenzene	0.459	0.020	--	1.99	0.087	--		1
p/m-Xylene	1.61	0.040	--	6.99	0.174	--		1
Xylene (Total)	2.21	0.020	--	9.60	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.071	0.020	--	0.302	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.596	0.020	--	2.59	0.087	--		1
4-Ethyltoluene	0.094	0.020	--	0.462	0.098	--		1
1,3,5-Trimethylbenzene	0.134	0.020	--	0.659	0.098	--		1
1,2,4-Trimethylbenzene	0.446	0.020	--	2.19	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-06  
 Client ID: SV-03  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:43  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/17/19 02:44  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.431	0.200	--	2.13	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	7.14	5.00	--	13.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.83	1.00	--	9.10	2.38	--		1
Trichlorofluoromethane	0.460	0.050	--	2.59	0.281	--		1
iso-Propyl Alcohol	0.633	0.500	--	1.56	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.065	0.050	--	0.498	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-06

Date Collected: 05/09/19 12:43

Client ID: SV-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.169	0.020	--	0.825	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.084	0.020	--	0.528	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.212	0.050	--	0.799	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

### SAMPLE RESULTS

Lab ID: L1919770-06  
 Client ID: SV-03  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:43  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.470	0.020	--	3.19	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.203	0.020	--	0.882	0.087	--		1
p/m-Xylene	0.660	0.040	--	2.87	0.174	--		1
Xylene (Total)	0.983	0.020	--	4.27	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.032	0.020	--	0.136	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.323	0.020	--	1.40	0.087	--		1
4-Ethyltoluene	0.074	0.020	--	0.364	0.098	--		1
1,3,5-Trimethylbenzene	0.100	0.020	--	0.492	0.098	--		1
1,2,4-Trimethylbenzene	0.391	0.020	--	1.92	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.108	0.020	--	0.649	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	0.050	0.020	--	0.301	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.127	0.050	--	0.666	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140



Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1238045-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1238045-4								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1238045-4								
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Xylene (Total)	ND	0.020	--	ND	0.087	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1238045-4								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 02 Batch: WG1238412-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 02 Batch: WG1238412-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1



Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/16/19 16:40

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 02 Batch: WG1238412-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1238045-3								
Propylene	114		-		70-130	-		25
Dichlorodifluoromethane	86		-		70-130	-		25
Chloromethane	101		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	97		-		70-130	-		25
Vinyl chloride	99		-		70-130	-		25
1,3-Butadiene	104		-		70-130	-		25
Bromomethane	90		-		70-130	-		25
Chloroethane	105		-		70-130	-		25
Ethyl Alcohol	92		-		40-160	-		25
Vinyl bromide	93		-		70-130	-		25
Acetone	83		-		40-160	-		25
Trichlorofluoromethane	100		-		70-130	-		25
iso-Propyl Alcohol	90		-		40-160	-		25
Acrylonitrile	99		-		70-130	-		25
1,1-Dichloroethene	98		-		70-130	-		25
tert-Butyl Alcohol <sup>1</sup>	91		-		70-130	-		25
Methylene chloride	98		-		70-130	-		25
3-Chloropropene	105		-		70-130	-		25
Carbon disulfide	88		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		-		70-130	-		25
trans-1,2-Dichloroethene	91		-		70-130	-		25
1,1-Dichloroethane	97		-		70-130	-		25
Methyl tert butyl ether	91		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1238045-3								
Vinyl acetate	97		-		70-130	-		25
2-Butanone	102		-		70-130	-		25
cis-1,2-Dichloroethene	96		-		70-130	-		25
Ethyl Acetate	101		-		70-130	-		25
Chloroform	96		-		70-130	-		25
Tetrahydrofuran	105		-		70-130	-		25
1,2-Dichloroethane	97		-		70-130	-		25
n-Hexane	106		-		70-130	-		25
1,1,1-Trichloroethane	105		-		70-130	-		25
Benzene	102		-		70-130	-		25
Carbon tetrachloride	103		-		70-130	-		25
Cyclohexane	109		-		70-130	-		25
Dibromomethane <sup>1</sup>	86		-		70-130	-		25
1,2-Dichloropropane	107		-		70-130	-		25
Bromodichloromethane	106		-		70-130	-		25
1,4-Dioxane	105		-		70-130	-		25
Trichloroethene	98		-		70-130	-		25
2,2,4-Trimethylpentane	111		-		70-130	-		25
cis-1,3-Dichloropropene	108		-		70-130	-		25
4-Methyl-2-pentanone	113		-		70-130	-		25
trans-1,3-Dichloropropene	93		-		70-130	-		25
1,1,2-Trichloroethane	106		-		70-130	-		25
Toluene	93		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1238045-3								
2-Hexanone	108		-		70-130	-		25
Dibromochloromethane	94		-		70-130	-		25
1,2-Dibromoethane	94		-		70-130	-		25
Tetrachloroethene	89		-		70-130	-		25
1,1,1,2-Tetrachloroethane	84		-		70-130	-		25
Chlorobenzene	95		-		70-130	-		25
Ethylbenzene	94		-		70-130	-		25
p/m-Xylene	88		-		70-130	-		25
Bromoform	88		-		70-130	-		25
Styrene	93		-		70-130	-		25
1,1,2,2-Tetrachloroethane	99		-		70-130	-		25
o-Xylene	96		-		70-130	-		25
1,2,3-Trichloropropane <sup>1</sup>	92		-		70-130	-		25
Isopropylbenzene	91		-		70-130	-		25
Bromobenzene <sup>1</sup>	91		-		70-130	-		25
4-Ethyltoluene	96		-		70-130	-		25
1,3,5-Trimethylbenzene	93		-		70-130	-		25
1,2,4-Trimethylbenzene	98		-		70-130	-		25
Benzyl chloride	85		-		70-130	-		25
1,3-Dichlorobenzene	93		-		70-130	-		25
1,4-Dichlorobenzene	92		-		70-130	-		25
sec-Butylbenzene	89		-		70-130	-		25
p-Isopropyltoluene	80		-		70-130	-		25

## Lab Control Sample Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1238045-3								
1,2-Dichlorobenzene	92		-		70-130	-		25
n-Butylbenzene	93		-		70-130	-		25
1,2,4-Trichlorobenzene	106		-		70-130	-		25
Naphthalene	81		-		70-130	-		25
1,2,3-Trichlorobenzene	94		-		70-130	-		25
Hexachlorobutadiene	99		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02 Batch: WG1238412-3								
Propylene	116		-		70-130	-		
Dichlorodifluoromethane	87		-		70-130	-		
Chloromethane	101		-		70-130	-		
Freon-114	97		-		70-130	-		
Vinyl chloride	99		-		70-130	-		
1,3-Butadiene	114		-		70-130	-		
Bromomethane	90		-		70-130	-		
Chloroethane	107		-		70-130	-		
Ethanol	83		-		40-160	-		
Vinyl bromide	91		-		70-130	-		
Acetone	83		-		40-160	-		
Trichlorofluoromethane	102		-		70-130	-		
Isopropanol	86		-		40-160	-		
1,1-Dichloroethene	99		-		70-130	-		
Tertiary butyl Alcohol	90		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	100		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	94		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	99		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
Vinyl acetate	103		-		70-130	-		



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02 Batch: WG1238412-3								
2-Butanone	101		-		70-130	-		
cis-1,2-Dichloroethene	90		-		70-130	-		
Ethyl Acetate	100		-		70-130	-		
Chloroform	97		-		70-130	-		
Tetrahydrofuran	106		-		70-130	-		
1,2-Dichloroethane	99		-		70-130	-		
n-Hexane	115		-		70-130	-		
1,1,1-Trichloroethane	110		-		70-130	-		
Benzene	107		-		70-130	-		
Carbon tetrachloride	108		-		70-130	-		
Cyclohexane	114		-		70-130	-		
1,2-Dichloropropane	112		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	107		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	116		-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	113		-		70-130	-		
4-Methyl-2-pentanone	118		-		70-130	-		
trans-1,3-Dichloropropene	96		-		70-130	-		
1,1,2-Trichloroethane	108		-		70-130	-		
Toluene	93		-		70-130	-		
2-Hexanone	108		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02 Batch: WG1238412-3								
Dibromochloromethane	94		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		
Tetrachloroethene	87		-		70-130	-		
Chlorobenzene	93		-		70-130	-		
Ethylbenzene	96		-		70-130	-		
p/m-Xylene	97		-		70-130	-		
Bromoform	88		-		70-130	-		
Styrene	93		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	98		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
1,2,4-Trimethylbenzene	99		-		70-130	-		
Benzyl chloride	90		-		70-130	-		
1,3-Dichlorobenzene	88		-		70-130	-		
1,4-Dichlorobenzene	89		-		70-130	-		
1,2-Dichlorobenzene	88		-		70-130	-		
1,2,4-Trichlorobenzene	95		-		70-130	-		
Hexachlorobutadiene	93		-		70-130	-		

## Lab Duplicate Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1238045-5 QC Sample: L1919770-03 Client ID: SV-02						
Propylene	2.41	2.53	ppbV	5		25
Dichlorodifluoromethane	0.788	0.775	ppbV	2		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	0.355	0.362	ppbV	2		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	7.37	7.39	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	7.56	7.63	ppbV	1		25
Trichlorofluoromethane	8.69	8.97	ppbV	3		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethene (total)	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,3-Dichloropropene, Total	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.064	0.068	ppbV	6		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1238045-5 QC Sample: L1919770-03 Client ID: SV-02						
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
Vinyl acetate	ND	ND	ppbV	NC		25
2-Butanone	0.547	0.588	ppbV	7		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	0.163	0.169	ppbV	4		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.371	0.389	ppbV	5		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.270	0.279	ppbV	3		25
Carbon tetrachloride	10.0	10.5	ppbV	5		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1238045-5 QC Sample: L1919770-03 Client ID: SV-02						
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.497	0.502	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.105	0.103	ppbV	2		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.397	0.398	ppbV	0		25
p/m-Xylene	1.32	1.34	ppbV	2		25
Xylene (Total)	1.93	1.95	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.044	0.043	ppbV	2		25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.613	0.610	ppbV	0		25
4-Ethyltoluene	0.133	0.134	ppbV	1		25
1,3,5-Trimethylbenzene	0.162	0.160	ppbV	1		25
1,2,4-Trimethylbenzene	0.636	0.646	ppbV	2		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	0.152	0.155	ppbV	2		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1238045-5 QC Sample: L1919770-03 Client ID: SV-02						
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Naphthalene	0.176	0.191	ppbV	8		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-01

Date Collected: 05/09/19 09:41

Client ID: SV-01

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 96,APH

Analytical Date: 05/16/19 23:31

Analyst: EW

**Quality Control Information**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	8.8		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	14		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	200		ug/m3	10	--	1
Toluene	12		ug/m3	0.90	--	1
Ethylbenzene	5.0		ug/m3	0.90	--	1
p/m-Xylene	17		ug/m3	0.90	--	1
o-Xylene	6.0		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	160		ug/m3	10	--	1
C9-C10 Aromatics Total	16		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		50-200
Bromochloromethane	99		50-200
Chlorobenzene-d5	97		50-200

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

## SAMPLE RESULTS

Lab ID: L1919770-02 D  
 Client ID: SSV-01  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:40  
 Date Received: 05/10/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 96,APH  
 Analytical Date: 05/17/19 00:02  
 Analyst: EW

## Quality Control Information

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	ND		ug/m3	1.0	--	2
Methyl tert butyl ether	ND		ug/m3	1.4	--	2
Benzene	2.3		ug/m3	1.2	--	2
C5-C8 Aliphatics, Adjusted	140		ug/m3	20	--	2
Toluene	3.6		ug/m3	1.8	--	2
Ethylbenzene	ND		ug/m3	1.8	--	2
p/m-Xylene	5.4		ug/m3	1.8	--	2
o-Xylene	3.4		ug/m3	1.8	--	2
Naphthalene	ND		ug/m3	2.2	--	2
C9-C12 Aliphatics, Adjusted	340		ug/m3	20	--	2
C9-C10 Aromatics Total	24		ug/m3	20	--	2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		50-200
Bromochloromethane	101		50-200
Chlorobenzene-d5	100		50-200



**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-03

Date Collected: 05/09/19 11:40

Client ID: SV-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 96,APH

Analytical Date: 05/17/19 00:34

Analyst: EW

**Quality Control Information**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Petroleum Hydrocarbons in Air - Mansfield Lab**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,3-Butadiene	ND		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	0.79		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	41		ug/m3	10	--	1
Toluene	1.7		ug/m3	0.90	--	1
Ethylbenzene	1.6		ug/m3	0.90	--	1
p/m-Xylene	5.5		ug/m3	0.90	--	1
o-Xylene	2.4		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	93		ug/m3	10	--	1
C9-C10 Aromatics Total	14		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		50-200
Bromochloromethane	100		50-200
Chlorobenzene-d5	92		50-200

**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-04

Date Collected: 05/09/19 11:04

Client ID: SSV-02

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 96,APH

Analytical Date: 05/17/19 01:39

Analyst: EW

**Quality Control Information**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	0.66		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	1.4		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	77		ug/m3	10	--	1
Toluene	2.3		ug/m3	0.90	--	1
Ethylbenzene	1.1		ug/m3	0.90	--	1
p/m-Xylene	4.0		ug/m3	0.90	--	1
o-Xylene	1.3		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	400		ug/m3	10	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		50-200
Bromochloromethane	97		50-200
Chlorobenzene-d5	92		50-200

**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-05

Date Collected: 05/09/19 10:58

Client ID: SSV-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 96,APH

Analytical Date: 05/17/19 02:12

Analyst: EW

**Quality Control Information**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	0.66		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	1.9		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	68		ug/m3	10	--	1
Toluene	4.6		ug/m3	0.90	--	1
Ethylbenzene	1.9		ug/m3	0.90	--	1
p/m-Xylene	6.9		ug/m3	0.90	--	1
o-Xylene	2.5		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	100		ug/m3	10	--	1
C9-C10 Aromatics Total	10		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		50-200
Bromochloromethane	100		50-200
Chlorobenzene-d5	96		50-200

**Project Name:** GETCHELL ICE**Lab Number:** L1919770**Project Number:** BE-173**Report Date:** 05/17/19**SAMPLE RESULTS**

Lab ID: L1919770-06

Date Collected: 05/09/19 12:43

Client ID: SV-03

Date Received: 05/10/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 96,APH

Analytical Date: 05/17/19 02:44

Analyst: EW

**Quality Control Information**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	ND		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	ND		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	25		ug/m3	10	--	1
Toluene	ND		ug/m3	0.90	--	1
Ethylbenzene	ND		ug/m3	0.90	--	1
p/m-Xylene	2.8		ug/m3	0.90	--	1
o-Xylene	1.3		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	59		ug/m3	10	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		50-200
Bromochloromethane	101		50-200
Chlorobenzene-d5	97		50-200

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 96,APH  
Analytical Date: 05/16/19 16:40  
Analyst: EW

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbons in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1238042-4					
1,3-Butadiene	ND		ug/m3	0.50	--
Methyl tert butyl ether	ND		ug/m3	0.70	--
Benzene	ND		ug/m3	0.60	--
C5-C8 Aliphatics, Adjusted	ND		ug/m3	10	--
Toluene	ND		ug/m3	0.90	--
Ethylbenzene	ND		ug/m3	0.90	--
p/m-Xylene	ND		ug/m3	0.90	--
o-Xylene	ND		ug/m3	0.90	--
Naphthalene	ND		ug/m3	1.1	--
C9-C12 Aliphatics, Adjusted	ND		ug/m3	10	--
C9-C10 Aromatics Total	ND		ug/m3	10	--

## Lab Control Sample Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1238042-3								
1,3-Butadiene	106		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
Benzene	102		-		70-130	-		
C5-C8 Aliphatics, Adjusted	108		-		70-130	-		
Toluene	86		-		70-130	-		
Ethylbenzene	87		-		70-130	-		
p/m-Xylene	86		-		70-130	-		
o-Xylene	88		-		70-130	-		
Naphthalene	85		-		50-150	-		
C9-C12 Aliphatics, Adjusted	93		-		70-130	-		
C9-C10 Aromatics Total	70		-		70-130	-		

## Lab Duplicate Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919770

Report Date: 05/17/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbons in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1238042-5 QC Sample: L1919770-03 Client ID: SV-02						
1,3-Butadiene	ND	ND	ug/m3	NC		30
Methyl tert butyl ether	ND	ND	ug/m3	NC		30
Benzene	0.79	0.87	ug/m3	10		30
C5-C8 Aliphatics, Adjusted	41	43	ug/m3	5		30
Toluene	1.7	1.7	ug/m3	0		30
Ethylbenzene	1.6	1.6	ug/m3	0		30
p/m-Xylene	5.5	5.7	ug/m3	4		30
o-Xylene	2.4	2.5	ug/m3	4		30
Naphthalene	ND	ND	ug/m3	NC		30
C9-C12 Aliphatics, Adjusted	93	97	ug/m3	4		30
C9-C10 Aromatics Total	14	14	ug/m3	0		30

Project Name: GETCHELL ICE

Serial\_No:05171916:50  
Lab Number: L1919770

Project Number: BE-173

Report Date: 05/17/19

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1919770-01	SV-01	0765	Flow 2	05/07/19	291367		-	-	-	Pass	72	107	39
L1919770-01	SV-01	531	2.7L Can	05/07/19	291367	L1917648-02	Pass	-29.6	-3.5	-	-	-	-
L1919770-02	SSV-01	0349	Flow 1	05/07/19	291367		-	-	-	Pass	72	85	17
L1919770-02	SSV-01	2426	2.7L Can	05/07/19	291367	L1917648-02	Pass	-29.6	1.8	-	-	-	-
L1919770-03	SV-02	01032	Flow 4	05/07/19	291367		-	-	-	Pass	72	80	11
L1919770-03	SV-02	254	2.7L Can	05/07/19	291367	L1917648-02	Pass	-29.9	-8.8	-	-	-	-
L1919770-04	SSV-02	0549	#90 SV	05/07/19	291367		-	-	-	Pass	72	77	7
L1919770-04	SSV-02	336	2.7L Can	05/07/19	291367	L1917648-02	Pass	-29.8	-8.6	-	-	-	-
L1919770-05	SSV-03	0939	Flow 2	05/07/19	291367		-	-	-	Pass	72	64	12
L1919770-05	SSV-03	454	2.7L Can	05/07/19	291367	L1917648-02	Pass	-29.4	-3.9	-	-	-	-
L1919770-06	SV-03	0742	Flow 3	05/07/19	291367		-	-	-	Pass	72	76	5
L1919770-06	SV-03	203	2.7L Can	05/07/19	291367	L1917648-02	Pass	-29.2	1.1	-	-	-	-



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 04/30/19 19:06  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	87		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/30/19 19:06  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1917648  
**Report Date:** 05/17/19

### Air Canister Certification Results

Lab ID: L1917648-02  
 Client ID: CAN 390 SHELF 1  
 Sample Location:

Date Collected: 04/29/19 16:00  
 Date Received: 04/30/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	93		60-140



# **AIR Petro Can Certification**

**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1917648**Project Number:** CANISTER QC BAT**Report Date:** 05/17/19**AIR CAN CERTIFICATION RESULTS**

**Lab ID:** L1917648-02  
**Client ID:** CAN 390 SHELF 1  
**Sample Location:** Not Specified  
**Matrix:** Air  
**Analytical Method:** 96,APH  
**Analytical Date:** 04/30/19 19:06  
**Analyst:** RY

**Date Collected:** 04/29/19 16:00  
**Date Received:** 04/30/19  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air</b>						
1,3-Butadiene	ND		ug/m3	0.50	--	1
Methyl tert butyl ether	ND		ug/m3	0.70	--	1
Benzene	ND		ug/m3	0.60	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	10	--	1
Toluene	ND		ug/m3	0.90	--	1
Ethylbenzene	ND		ug/m3	0.90	--	1
p/m-Xylene	ND		ug/m3	0.90	--	1
o-Xylene	ND		ug/m3	0.90	--	1
Naphthalene	ND		ug/m3	1.1	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	10	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: GETCHELL ICE

Project Number: BE-173

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

N/A                              Present/Intact

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919770-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		APH-10(30),TO15-SIM(30)
L1919770-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		APH-10(30),TO15-LL(30),TO15-SIM(30)
L1919770-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		APH-10(30),TO15-SIM(30)
L1919770-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		APH-10(30),TO15-SIM(30)
L1919770-05A	Canister - 2.7 Liter	N/A	NA			Y	Absent		APH-10(30),TO15-SIM(30)
L1919770-06A	Canister - 2.7 Liter	N/A	NA			Y	Absent		APH-10(30),TO15-SIM(30)

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

Report Format: Data Usability Report



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919770  
**Report Date:** 05/17/19

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.
- 96 Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), MassDEP, December 2009, Revision 1 with QC Requirements & Performance Standards for the Analysis of APH by GC/MS under the Massachusetts Contingency Plan, WSC-CAM-IXA, July 2010.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 6860:** SCM: Perchlorate

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

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The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**


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For a complete listing of analytes and methods, please contact your Alpha Project Manager.



# AIR ANALYSIS

PAGE 1 OF 1



**CHAIN OF CUSTODY**  
320 Forbes Blvd, Mansfield, MA 02048  
TEL: 508-822-9300 FAX: 508-822-3288

**Project Information**

Project Name: GETCHEL ICE

Project Location: BREWSTER, ME

Project #: BE-173

Project Manager: CRESSEY

ALPHA Quote #: 8004

**Turn-Around Time**

Standard     RUSH (only confirmed if pre-approved)

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

**Client Information**

Client: BEACON ENVIRONMENTAL

Address: PO BOX 2154  
WINDHAM, ME 04062

Phone: (207) 376-5001

Fax: (207) 221-1354

Email: JRESSEY@BEACONMAINE.COM

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

Date Rec'd in Lab: 5/10/19

ALPHA Job #: L1919770

**Report Information - Data Deliverables**

FAX  
 ADEX

Criteria Checker: \_\_\_\_\_  
(Default based on Regulatory Criteria Indicated)

Other Formats: \_\_\_\_\_

EMAIL (standard pdf report)

Additional Deliverables: \_\_\_\_\_

Report to: (if different than Project Manager) \_\_\_\_\_

**Billing Information**

Same as Client info    PO #: BE-173

**Regulatory Requirements/Report Limits**

State/Fed	Program	Res / Comm

### All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS			Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum						TO-15	TO-15 SIM	APH <small>Subtract Non-petroleum HCs</small>	
19770.01	SV-01	5/9	920	941	-30.03	-4.63	SV	Jkc	2.7	531	0765	X	X		
.02	SSV-01	↓	1205	1240	-29.03	-0.30	SV	Jkc	2.7	2426	0349	X	X		
.03	SV-02		1115	1140	-30.26	-9.90	SV	Jkc	2.7	254	01032	X	X		
.04	SSV-02		1040	1104	-30.08	-9.92	SV	Jkc	2.7	336	0549	X	X		
.05	SSV-03		1027	1058	-30.51	-5.75	SV	Jkc	2.7	454	0939	X	X		
.06	SV-03		1210	1243	-29.81	-0.74	SV	Jkc	2.7	203	0742	X	X		

**\*SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: Rob MacIntyre Date/Time: 5-10 5:00  
5/10/19 1940

Received By: Rob MacIntyre Date/Time: 5/10/19 16:25  
5/10/19 2130





## ANALYTICAL REPORT

Lab Number:	L1919966
Client:	Beacon Environmental Consultants, LLC P.O. Box 2154 33 Hawthorne Drive Windham, ME 04062
ATTN:	John Cressey
Phone:	(207) 376-5001
Project Name:	GETCHELL ICE
Project Number:	BE-173
Report Date:	05/23/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1919966-01	B-03 (3-4')	SOIL	BREWER, ME	05/09/19 10:00	05/13/19
L1919966-02	B-12 (0-2')	SOIL	BREWER, ME	05/09/19 09:48	05/13/19
L1919966-03	B-13 (12-13')	SOIL	BREWER, ME	05/09/19 11:45	05/13/19
L1919966-04	B-04 (8-10')	SOIL	BREWER, ME	05/09/19 12:50	05/13/19
L1919966-05	B-02 (10-12')	SOIL	BREWER, ME	05/09/19 10:55	05/13/19
L1919966-06	B-06 (12-13')	SOIL	BREWER, ME	05/09/19 11:45	05/13/19
L1919966-07	B-09 (9-10')	SOIL	BREWER, ME	05/09/19 12:25	05/13/19
L1919966-08	B-10 (11-12')	SOIL	BREWER, ME	05/09/19 09:05	05/13/19
L1919966-09	TRIP BLANK	SOIL	BREWER, ME	05/06/19 00:00	05/13/19
L1919966-10	B-06 (0-2')	SOIL	BREWER, ME	05/09/19 11:30	05/13/19
L1919966-11	SS-02 (0-2')	SOIL	BREWER, ME	05/09/19 12:00	05/13/19
L1919966-12	SS-03 (0-2')	SOIL	BREWER, ME	05/09/19 12:05	05/13/19
L1919966-13	B-09 (0-2')	SOIL	BREWER, ME	05/09/19 12:15	05/13/19
L1919966-14	B-05 (0-2')	SOIL	BREWER, ME	05/09/19 12:10	05/13/19
L1919966-15	B-11 (6-8')	SOIL	BREWER, ME	05/09/19 13:20	05/13/19

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

### Case Narrative (continued)

#### Sample Receipt

L1919966-09: The Methanol preserved vials for Volatile Organics and VPH analyses were received leaking. An aliquot was taken from an unpreserved container and preserved appropriately.

#### Volatile Organics

L1919966-04 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

L1919966-09: The Trip Blank has results for toluene and acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

L1919966-15 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

#### Semivolatile Organics by SIM

L1919966-07: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### EPH

L1919966-04 has elevated detection limits for the target analytes only due to the dilution required by the elevated concentrations of these compounds in the sample.

#### Total Metals

The WG1239585-4 Laboratory Duplicate RPD for lead (32%), performed on L1919966-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Case Narrative (continued)**

sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 05/23/19

# ORGANICS

# VOLATILES

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-01  
 Client ID: B-03 (3-4')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 17:59  
 Analyst: MV  
 Percent Solids: 45%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	26	--	1
1,1-Dichloroethane	ND		ug/kg	5.2	--	1
Chloroform	ND		ug/kg	7.8	--	1
Carbon tetrachloride	ND		ug/kg	5.2	--	1
1,2-Dichloropropane	ND		ug/kg	5.2	--	1
Dibromochloromethane	ND		ug/kg	5.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	5.2	--	1
Tetrachloroethene	ND		ug/kg	2.6	--	1
Chlorobenzene	ND		ug/kg	2.6	--	1
Trichlorofluoromethane	ND		ug/kg	21	--	1
1,2-Dichloroethane	ND		ug/kg	5.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	2.6	--	1
Bromodichloromethane	ND		ug/kg	2.6	--	1
trans-1,3-Dichloropropene	ND		ug/kg	5.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	2.6	--	1
1,3-Dichloropropene, Total	ND		ug/kg	2.6	--	1
1,1-Dichloropropene	ND		ug/kg	2.6	--	1
Bromoform	ND		ug/kg	21	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.6	--	1
Benzene	ND		ug/kg	2.6	--	1
Toluene	ND		ug/kg	5.2	--	1
Ethylbenzene	ND		ug/kg	5.2	--	1
Chloromethane	ND		ug/kg	21	--	1
Bromomethane	ND		ug/kg	10	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Chloroethane	ND		ug/kg	10	--	1
1,1-Dichloroethene	ND		ug/kg	5.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	7.8	--	1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-01  
 Client ID: B-03 (3-4')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	2.6	--	1
1,2-Dichlorobenzene	ND		ug/kg	10	--	1
1,3-Dichlorobenzene	ND		ug/kg	10	--	1
1,4-Dichlorobenzene	ND		ug/kg	10	--	1
Methyl tert butyl ether	ND		ug/kg	10	--	1
p/m-Xylene	ND		ug/kg	10	--	1
o-Xylene	ND		ug/kg	5.2	--	1
Xylenes, Total	ND		ug/kg	5.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	5.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	5.2	--	1
Dibromomethane	ND		ug/kg	10	--	1
1,4-Dichlorobutane	ND		ug/kg	52	--	1
1,2,3-Trichloropropane	ND		ug/kg	10	--	1
Styrene	ND		ug/kg	5.2	--	1
Dichlorodifluoromethane	ND		ug/kg	52	--	1
Acetone	ND		ug/kg	52	--	1
Carbon disulfide	ND		ug/kg	52	--	1
2-Butanone	ND		ug/kg	52	--	1
Vinyl acetate	ND		ug/kg	52	--	1
4-Methyl-2-pentanone	ND		ug/kg	52	--	1
2-Hexanone	ND		ug/kg	52	--	1
Ethyl methacrylate	ND		ug/kg	52	--	1
Acrylonitrile	ND		ug/kg	21	--	1
Bromochloromethane	ND		ug/kg	10	--	1
Tetrahydrofuran	ND		ug/kg	21	--	1
2,2-Dichloropropane	ND		ug/kg	10	--	1
1,2-Dibromoethane	ND		ug/kg	5.2	--	1
1,3-Dichloropropane	ND		ug/kg	10	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.6	--	1
Bromobenzene	ND		ug/kg	10	--	1
n-Butylbenzene	ND		ug/kg	5.2	--	1
sec-Butylbenzene	ND		ug/kg	5.2	--	1
tert-Butylbenzene	ND		ug/kg	10	--	1
o-Chlorotoluene	ND		ug/kg	10	--	1
p-Chlorotoluene	ND		ug/kg	10	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	16	--	1
Hexachlorobutadiene	ND		ug/kg	21	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-01  
 Client ID: B-03 (3-4')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	5.2	--	1
p-Isopropyltoluene	ND		ug/kg	5.2	--	1
Naphthalene	ND		ug/kg	21	--	1
n-Propylbenzene	ND		ug/kg	5.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	10	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	10	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	10	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	10	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	26	--	1
Ethyl ether	ND		ug/kg	10	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	101		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-02  
 Client ID: B-12 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 09:48  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 18:24  
 Analyst: MV  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	--	1
1,1-Dichloroethane	ND		ug/kg	2.5	--	1
Chloroform	ND		ug/kg	3.8	--	1
Carbon tetrachloride	ND		ug/kg	2.5	--	1
1,2-Dichloropropane	ND		ug/kg	2.5	--	1
Dibromochloromethane	ND		ug/kg	2.5	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.5	--	1
Tetrachloroethene	ND		ug/kg	1.3	--	1
Chlorobenzene	ND		ug/kg	1.3	--	1
Trichlorofluoromethane	ND		ug/kg	10	--	1
1,2-Dichloroethane	ND		ug/kg	2.5	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	--	1
Bromodichloromethane	ND		ug/kg	1.3	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.5	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	--	1
1,1-Dichloropropene	ND		ug/kg	1.3	--	1
Bromoform	ND		ug/kg	10	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	--	1
Benzene	ND		ug/kg	1.3	--	1
Toluene	ND		ug/kg	2.5	--	1
Ethylbenzene	ND		ug/kg	2.5	--	1
Chloromethane	ND		ug/kg	10	--	1
Bromomethane	ND		ug/kg	5.1	--	1
Vinyl chloride	ND		ug/kg	2.5	--	1
Chloroethane	ND		ug/kg	5.1	--	1
1,1-Dichloroethene	ND		ug/kg	2.5	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.8	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-02

Date Collected: 05/09/19 09:48

Client ID: B-12 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	--	1
Methyl tert butyl ether	ND		ug/kg	5.1	--	1
p/m-Xylene	ND		ug/kg	5.1	--	1
o-Xylene	ND		ug/kg	2.5	--	1
Xylenes, Total	ND		ug/kg	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.5	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.5	--	1
Dibromomethane	ND		ug/kg	5.1	--	1
1,4-Dichlorobutane	ND		ug/kg	25	--	1
1,2,3-Trichloropropane	ND		ug/kg	5.1	--	1
Styrene	ND		ug/kg	2.5	--	1
Dichlorodifluoromethane	ND		ug/kg	25	--	1
Acetone	74		ug/kg	25	--	1
Carbon disulfide	ND		ug/kg	25	--	1
2-Butanone	ND		ug/kg	25	--	1
Vinyl acetate	ND		ug/kg	25	--	1
4-Methyl-2-pentanone	ND		ug/kg	25	--	1
2-Hexanone	ND		ug/kg	25	--	1
Ethyl methacrylate	ND		ug/kg	25	--	1
Acrylonitrile	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	5.1	--	1
Tetrahydrofuran	ND		ug/kg	10	--	1
2,2-Dichloropropane	ND		ug/kg	5.1	--	1
1,2-Dibromoethane	ND		ug/kg	2.5	--	1
1,3-Dichloropropane	ND		ug/kg	5.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	--	1
Bromobenzene	ND		ug/kg	5.1	--	1
n-Butylbenzene	ND		ug/kg	2.5	--	1
sec-Butylbenzene	ND		ug/kg	2.5	--	1
tert-Butylbenzene	ND		ug/kg	5.1	--	1
o-Chlorotoluene	ND		ug/kg	5.1	--	1
p-Chlorotoluene	ND		ug/kg	5.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	--	1
Hexachlorobutadiene	ND		ug/kg	10	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

**Lab ID:** L1919966-02  
**Client ID:** B-12 (0-2')  
**Sample Location:** BREWER, ME

**Date Collected:** 05/09/19 09:48  
**Date Received:** 05/13/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	2.5	--	1
p-Isopropyltoluene	ND		ug/kg	2.5	--	1
Naphthalene	ND		ug/kg	10	--	1
n-Propylbenzene	ND		ug/kg	2.5	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	13	--	1
Ethyl ether	ND		ug/kg	5.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-03  
 Client ID: B-13 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 18:51  
 Analyst: MV  
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	10	--	1
1,1-Dichloroethane	ND		ug/kg	2.0	--	1
Chloroform	ND		ug/kg	3.1	--	1
Carbon tetrachloride	ND		ug/kg	2.0	--	1
1,2-Dichloropropane	ND		ug/kg	2.0	--	1
Dibromochloromethane	ND		ug/kg	2.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	--	1
Tetrachloroethene	ND		ug/kg	1.0	--	1
Chlorobenzene	ND		ug/kg	1.0	--	1
Trichlorofluoromethane	ND		ug/kg	8.2	--	1
1,2-Dichloroethane	ND		ug/kg	2.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	--	1
Bromodichloromethane	ND		ug/kg	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--	1
1,1-Dichloropropene	ND		ug/kg	1.0	--	1
Bromoform	ND		ug/kg	8.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Benzene	ND		ug/kg	1.0	--	1
Toluene	2.1		ug/kg	2.0	--	1
Ethylbenzene	ND		ug/kg	2.0	--	1
Chloromethane	ND		ug/kg	8.2	--	1
Bromomethane	ND		ug/kg	4.1	--	1
Vinyl chloride	ND		ug/kg	2.0	--	1
Chloroethane	ND		ug/kg	4.1	--	1
1,1-Dichloroethene	ND		ug/kg	2.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.1	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-03  
 Client ID: B-13 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	4.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.1	--	1
Methyl tert butyl ether	ND		ug/kg	4.1	--	1
p/m-Xylene	ND		ug/kg	4.1	--	1
o-Xylene	ND		ug/kg	2.0	--	1
Xylenes, Total	ND		ug/kg	2.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	--	1
Dibromomethane	ND		ug/kg	4.1	--	1
1,4-Dichlorobutane	ND		ug/kg	20	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.1	--	1
Styrene	ND		ug/kg	2.0	--	1
Dichlorodifluoromethane	ND		ug/kg	20	--	1
Acetone	50		ug/kg	20	--	1
Carbon disulfide	ND		ug/kg	20	--	1
2-Butanone	ND		ug/kg	20	--	1
Vinyl acetate	ND		ug/kg	20	--	1
4-Methyl-2-pentanone	ND		ug/kg	20	--	1
2-Hexanone	ND		ug/kg	20	--	1
Ethyl methacrylate	ND		ug/kg	20	--	1
Acrylonitrile	ND		ug/kg	8.2	--	1
Bromochloromethane	ND		ug/kg	4.1	--	1
Tetrahydrofuran	ND		ug/kg	8.2	--	1
2,2-Dichloropropane	ND		ug/kg	4.1	--	1
1,2-Dibromoethane	ND		ug/kg	2.0	--	1
1,3-Dichloropropane	ND		ug/kg	4.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Bromobenzene	ND		ug/kg	4.1	--	1
n-Butylbenzene	ND		ug/kg	2.0	--	1
sec-Butylbenzene	ND		ug/kg	2.0	--	1
tert-Butylbenzene	ND		ug/kg	4.1	--	1
o-Chlorotoluene	ND		ug/kg	4.1	--	1
p-Chlorotoluene	ND		ug/kg	4.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	--	1
Hexachlorobutadiene	ND		ug/kg	8.2	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-03  
 Client ID: B-13 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	2.0	--	1
p-Isopropyltoluene	ND		ug/kg	2.0	--	1
Naphthalene	ND		ug/kg	8.2	--	1
n-Propylbenzene	ND		ug/kg	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.1	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	10	--	1
Ethyl ether	ND		ug/kg	4.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-04  
 Client ID: B-04 (8-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:50  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 19:17  
 Analyst: MV  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	--	1
1,1-Dichloroethane	ND		ug/kg	2.4	--	1
Chloroform	ND		ug/kg	3.5	--	1
Carbon tetrachloride	ND		ug/kg	2.4	--	1
1,2-Dichloropropane	ND		ug/kg	2.4	--	1
Dibromochloromethane	ND		ug/kg	2.4	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	--	1
Tetrachloroethene	ND		ug/kg	1.2	--	1
Chlorobenzene	ND		ug/kg	1.2	--	1
Trichlorofluoromethane	ND		ug/kg	9.5	--	1
1,2-Dichloroethane	ND		ug/kg	2.4	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	--	1
Bromodichloromethane	ND		ug/kg	1.2	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.4	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	--	1
1,1-Dichloropropene	ND		ug/kg	1.2	--	1
Bromoform	ND		ug/kg	9.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	--	1
Benzene	ND		ug/kg	1.2	--	1
Toluene	ND		ug/kg	2.4	--	1
Ethylbenzene	ND		ug/kg	2.4	--	1
Chloromethane	ND		ug/kg	9.5	--	1
Bromomethane	ND		ug/kg	4.7	--	1
Vinyl chloride	ND		ug/kg	2.4	--	1
Chloroethane	ND		ug/kg	4.7	--	1
1,1-Dichloroethene	ND		ug/kg	2.4	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.5	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-04  
 Client ID: B-04 (8-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:50  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	--	1
Methyl tert butyl ether	ND		ug/kg	4.7	--	1
p/m-Xylene	ND		ug/kg	4.7	--	1
o-Xylene	ND		ug/kg	2.4	--	1
Xylenes, Total	ND		ug/kg	2.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.4	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.4	--	1
Dibromomethane	ND		ug/kg	4.7	--	1
1,4-Dichlorobutane	ND		ug/kg	24	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.7	--	1
Styrene	ND		ug/kg	2.4	--	1
Dichlorodifluoromethane	ND		ug/kg	24	--	1
Acetone	3000	E	ug/kg	24	--	1
Carbon disulfide	ND		ug/kg	24	--	1
2-Butanone	ND		ug/kg	24	--	1
Vinyl acetate	ND		ug/kg	24	--	1
4-Methyl-2-pentanone	ND		ug/kg	24	--	1
2-Hexanone	ND		ug/kg	24	--	1
Ethyl methacrylate	ND		ug/kg	24	--	1
Acrylonitrile	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	4.7	--	1
Tetrahydrofuran	ND		ug/kg	9.5	--	1
2,2-Dichloropropane	ND		ug/kg	4.7	--	1
1,2-Dibromoethane	ND		ug/kg	2.4	--	1
1,3-Dichloropropane	ND		ug/kg	4.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	--	1
Bromobenzene	ND		ug/kg	4.7	--	1
n-Butylbenzene	ND		ug/kg	2.4	--	1
sec-Butylbenzene	ND		ug/kg	2.4	--	1
tert-Butylbenzene	ND		ug/kg	4.7	--	1
o-Chlorotoluene	ND		ug/kg	4.7	--	1
p-Chlorotoluene	ND		ug/kg	4.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	--	1
Hexachlorobutadiene	ND		ug/kg	9.5	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

**Lab ID:** L1919966-04  
**Client ID:** B-04 (8-10')  
**Sample Location:** BREWER, ME

**Date Collected:** 05/09/19 12:50  
**Date Received:** 05/13/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	2.4	--	1
p-Isopropyltoluene	ND		ug/kg	2.4	--	1
Naphthalene	ND		ug/kg	9.5	--	1
n-Propylbenzene	ND		ug/kg	2.4	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	12	--	1
Ethyl ether	ND		ug/kg	4.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-04  
 Client ID: B-04 (8-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:50  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/21/19 09:14  
 Analyst: MV  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	650	--	1
1,1-Dichloroethane	ND		ug/kg	130	--	1
Chloroform	ND		ug/kg	190	--	1
Carbon tetrachloride	ND		ug/kg	130	--	1
1,2-Dichloropropane	ND		ug/kg	130	--	1
Dibromochloromethane	ND		ug/kg	130	--	1
1,1,2-Trichloroethane	ND		ug/kg	130	--	1
Tetrachloroethene	ND		ug/kg	65	--	1
Chlorobenzene	ND		ug/kg	65	--	1
Trichlorofluoromethane	ND		ug/kg	520	--	1
1,2-Dichloroethane	ND		ug/kg	130	--	1
1,1,1-Trichloroethane	ND		ug/kg	65	--	1
Bromodichloromethane	ND		ug/kg	65	--	1
trans-1,3-Dichloropropene	ND		ug/kg	130	--	1
cis-1,3-Dichloropropene	ND		ug/kg	65	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	--	1
1,1-Dichloropropene	ND		ug/kg	65	--	1
Bromoform	ND		ug/kg	520	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	65	--	1
Benzene	ND		ug/kg	65	--	1
Toluene	ND		ug/kg	130	--	1
Ethylbenzene	ND		ug/kg	130	--	1
Chloromethane	ND		ug/kg	520	--	1
Bromomethane	ND		ug/kg	260	--	1
Vinyl chloride	ND		ug/kg	130	--	1
Chloroethane	ND		ug/kg	260	--	1
1,1-Dichloroethene	ND		ug/kg	130	--	1
trans-1,2-Dichloroethene	ND		ug/kg	190	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-04

Date Collected: 05/09/19 12:50

Client ID: B-04 (8-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	65	--	1
1,2-Dichlorobenzene	ND		ug/kg	260	--	1
1,3-Dichlorobenzene	ND		ug/kg	260	--	1
1,4-Dichlorobenzene	ND		ug/kg	260	--	1
Methyl tert butyl ether	ND		ug/kg	260	--	1
p/m-Xylene	ND		ug/kg	260	--	1
o-Xylene	ND		ug/kg	130	--	1
Xylenes, Total	ND		ug/kg	2.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	130	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.4	--	1
Dibromomethane	ND		ug/kg	260	--	1
1,4-Dichlorobutane	ND		ug/kg	1300	--	1
1,2,3-Trichloropropane	ND		ug/kg	260	--	1
Styrene	ND		ug/kg	130	--	1
Dichlorodifluoromethane	ND		ug/kg	1300	--	1
Acetone	ND		ug/kg	1300	--	1
Carbon disulfide	ND		ug/kg	1300	--	1
2-Butanone	ND		ug/kg	1300	--	1
Vinyl acetate	ND		ug/kg	1300	--	1
4-Methyl-2-pentanone	ND		ug/kg	1300	--	1
2-Hexanone	ND		ug/kg	1300	--	1
Ethyl methacrylate	ND		ug/kg	1300	--	1
Acrylonitrile	ND		ug/kg	520	--	1
Bromochloromethane	ND		ug/kg	260	--	1
Tetrahydrofuran	ND		ug/kg	520	--	1
2,2-Dichloropropane	ND		ug/kg	260	--	1
1,2-Dibromoethane	ND		ug/kg	130	--	1
1,3-Dichloropropane	ND		ug/kg	260	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	65	--	1
Bromobenzene	ND		ug/kg	260	--	1
n-Butylbenzene	ND		ug/kg	130	--	1
sec-Butylbenzene	ND		ug/kg	130	--	1
tert-Butylbenzene	ND		ug/kg	260	--	1
o-Chlorotoluene	ND		ug/kg	260	--	1
p-Chlorotoluene	ND		ug/kg	260	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	390	--	1
Hexachlorobutadiene	ND		ug/kg	520	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-04  
 Client ID: B-04 (8-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:50  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Isopropylbenzene	ND		ug/kg	130	--	1
p-Isopropyltoluene	ND		ug/kg	130	--	1
Naphthalene	ND		ug/kg	520	--	1
n-Propylbenzene	ND		ug/kg	130	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	260	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	260	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	260	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	650	--	1
Ethyl ether	ND		ug/kg	260	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	92		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-05  
 Client ID: B-02 (10-12')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:55  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 19:43  
 Analyst: MV  
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.9	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.63	--	1
Chlorobenzene	ND		ug/kg	0.63	--	1
Trichlorofluoromethane	ND		ug/kg	5.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	--	1
Bromodichloromethane	ND		ug/kg	0.63	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	--	1
1,1-Dichloropropene	ND		ug/kg	0.63	--	1
Bromoform	ND		ug/kg	5.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	--	1
Benzene	ND		ug/kg	0.63	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	5.0	--	1
Bromomethane	ND		ug/kg	2.5	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-05  
 Client ID: B-02 (10-12')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:55  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.63	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	2.5	--	1
p/m-Xylene	ND		ug/kg	2.5	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,4-Dichlorobutane	ND		ug/kg	12	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	61		ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
2-Butanone	ND		ug/kg	12	--	1
Vinyl acetate	ND		ug/kg	12	--	1
4-Methyl-2-pentanone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Ethyl methacrylate	ND		ug/kg	12	--	1
Acrylonitrile	ND		ug/kg	5.0	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	5.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	--	1
Hexachlorobutadiene	ND		ug/kg	5.0	--	1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-05  
 Client ID: B-02 (10-12')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:55  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	5.0	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	--	1
Ethyl ether	ND		ug/kg	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-06  
 Client ID: B-06 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 20:09  
 Analyst: MV  
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.5	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	1.3	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.65	--	1
Chlorobenzene	ND		ug/kg	0.65	--	1
Trichlorofluoromethane	ND		ug/kg	5.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	--	1
Bromodichloromethane	ND		ug/kg	0.65	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	--	1
1,1-Dichloropropene	ND		ug/kg	0.65	--	1
Bromoform	ND		ug/kg	5.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	--	1
Benzene	ND		ug/kg	0.65	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.2	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-06  
 Client ID: B-06 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.65	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,4-Dichlorobutane	ND		ug/kg	13	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	70		ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	13	--	1
2-Butanone	ND		ug/kg	13	--	1
Vinyl acetate	ND		ug/kg	13	--	1
4-Methyl-2-pentanone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Ethyl methacrylate	ND		ug/kg	13	--	1
Acrylonitrile	ND		ug/kg	5.2	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	5.2	--	1
2,2-Dichloropropane	ND		ug/kg	2.6	--	1
1,2-Dibromoethane	ND		ug/kg	1.3	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	--	1
Bromobenzene	ND		ug/kg	2.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	--	1
Hexachlorobutadiene	ND		ug/kg	5.2	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-06  
 Client ID: B-06 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.2	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	--	1
Ethyl ether	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-07  
 Client ID: B-09 (9-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:25  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/21/19 10:33  
 Analyst: JC  
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.58	--	1
Chlorobenzene	ND		ug/kg	0.58	--	1
Trichlorofluoromethane	ND		ug/kg	4.7	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	--	1
Bromodichloromethane	ND		ug/kg	0.58	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	--	1
1,1-Dichloropropene	ND		ug/kg	0.58	--	1
Bromoform	ND		ug/kg	4.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Benzene	ND		ug/kg	0.58	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.7	--	1
Bromomethane	ND		ug/kg	2.3	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-07

Date Collected: 05/09/19 12:25

Client ID: B-09 (9-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	--	1
Methyl tert butyl ether	ND		ug/kg	2.3	--	1
p/m-Xylene	ND		ug/kg	2.3	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.3	--	1
1,4-Dichlorobutane	ND		ug/kg	12	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	15		ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
2-Butanone	ND		ug/kg	12	--	1
Vinyl acetate	ND		ug/kg	12	--	1
4-Methyl-2-pentanone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Ethyl methacrylate	ND		ug/kg	12	--	1
Acrylonitrile	ND		ug/kg	4.7	--	1
Bromochloromethane	ND		ug/kg	2.3	--	1
Tetrahydrofuran	ND		ug/kg	4.7	--	1
2,2-Dichloropropane	ND		ug/kg	2.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Bromobenzene	ND		ug/kg	2.3	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.3	--	1
o-Chlorotoluene	ND		ug/kg	2.3	--	1
p-Chlorotoluene	ND		ug/kg	2.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	--	1
Hexachlorobutadiene	ND		ug/kg	4.7	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

**Lab ID:** L1919966-07  
**Client ID:** B-09 (9-10')  
**Sample Location:** BREWER, ME

**Date Collected:** 05/09/19 12:25  
**Date Received:** 05/13/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.7	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	--	1
Ethyl ether	ND		ug/kg	2.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	93		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-08  
 Client ID: B-10 (11-12')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 09:05  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 20:35  
 Analyst: MV  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	8.4	--	1
1,1-Dichloroethane	ND		ug/kg	1.7	--	1
Chloroform	ND		ug/kg	2.5	--	1
Carbon tetrachloride	ND		ug/kg	1.7	--	1
1,2-Dichloropropane	ND		ug/kg	1.7	--	1
Dibromochloromethane	ND		ug/kg	1.7	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	--	1
Tetrachloroethene	ND		ug/kg	0.84	--	1
Chlorobenzene	ND		ug/kg	0.84	--	1
Trichlorofluoromethane	ND		ug/kg	6.7	--	1
1,2-Dichloroethane	ND		ug/kg	1.7	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	--	1
Bromodichloromethane	ND		ug/kg	0.84	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.84	--	1
1,1-Dichloropropene	ND		ug/kg	0.84	--	1
Bromoform	ND		ug/kg	6.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	--	1
Benzene	ND		ug/kg	0.84	--	1
Toluene	ND		ug/kg	1.7	--	1
Ethylbenzene	ND		ug/kg	1.7	--	1
Chloromethane	ND		ug/kg	6.7	--	1
Bromomethane	ND		ug/kg	3.3	--	1
Vinyl chloride	ND		ug/kg	1.7	--	1
Chloroethane	ND		ug/kg	3.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.7	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	--	1



Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-08

Date Collected: 05/09/19 09:05

Client ID: B-10 (11-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.84	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	--	1
Methyl tert butyl ether	ND		ug/kg	3.3	--	1
p/m-Xylene	ND		ug/kg	3.3	--	1
o-Xylene	ND		ug/kg	1.7	--	1
Xylenes, Total	ND		ug/kg	1.7	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	--	1
Dibromomethane	ND		ug/kg	3.3	--	1
1,4-Dichlorobutane	ND		ug/kg	17	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.3	--	1
Styrene	ND		ug/kg	1.7	--	1
Dichlorodifluoromethane	ND		ug/kg	17	--	1
Acetone	22		ug/kg	17	--	1
Carbon disulfide	ND		ug/kg	17	--	1
2-Butanone	ND		ug/kg	17	--	1
Vinyl acetate	ND		ug/kg	17	--	1
4-Methyl-2-pentanone	ND		ug/kg	17	--	1
2-Hexanone	ND		ug/kg	17	--	1
Ethyl methacrylate	ND		ug/kg	17	--	1
Acrylonitrile	ND		ug/kg	6.7	--	1
Bromochloromethane	ND		ug/kg	3.3	--	1
Tetrahydrofuran	ND		ug/kg	6.7	--	1
2,2-Dichloropropane	ND		ug/kg	3.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.7	--	1
1,3-Dichloropropane	ND		ug/kg	3.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.84	--	1
Bromobenzene	ND		ug/kg	3.3	--	1
n-Butylbenzene	ND		ug/kg	1.7	--	1
sec-Butylbenzene	ND		ug/kg	1.7	--	1
tert-Butylbenzene	ND		ug/kg	3.3	--	1
o-Chlorotoluene	ND		ug/kg	3.3	--	1
p-Chlorotoluene	ND		ug/kg	3.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--	1
Hexachlorobutadiene	ND		ug/kg	6.7	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-08  
 Client ID: B-10 (11-12')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 09:05  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.7	--	1
p-Isopropyltoluene	ND		ug/kg	1.7	--	1
Naphthalene	ND		ug/kg	6.7	--	1
n-Propylbenzene	ND		ug/kg	1.7	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.4	--	1
Ethyl ether	ND		ug/kg	3.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-09  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/06/19 00:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 17:32  
 Analyst: MV  
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.0	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.50	--	1
Chlorobenzene	ND		ug/kg	0.50	--	1
Trichlorofluoromethane	ND		ug/kg	4.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	--	1
Bromodichloromethane	ND		ug/kg	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--	1
1,1-Dichloropropene	ND		ug/kg	0.50	--	1
Bromoform	ND		ug/kg	4.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--	1
Benzene	ND		ug/kg	0.50	--	1
Toluene	1.9		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.0	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-09

Date Collected: 05/06/19 00:00

Client ID: TRIP BLANK

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,4-Dichlorobutane	ND		ug/kg	10	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	12		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
2-Butanone	ND		ug/kg	10	--	1
Vinyl acetate	ND		ug/kg	10	--	1
4-Methyl-2-pentanone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Ethyl methacrylate	ND		ug/kg	10	--	1
Acrylonitrile	ND		ug/kg	4.0	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	4.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	4.0	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-09  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/06/19 00:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.0	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--	1
Ethyl ether	ND		ug/kg	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-09  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/06/19 00:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/21/19 08:22  
 Analyst: MV  
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	250	--	1
1,1-Dichloroethane	ND		ug/kg	50	--	1
Chloroform	ND		ug/kg	75	--	1
Carbon tetrachloride	ND		ug/kg	50	--	1
1,2-Dichloropropane	ND		ug/kg	50	--	1
Dibromochloromethane	ND		ug/kg	50	--	1
1,1,2-Trichloroethane	ND		ug/kg	50	--	1
Tetrachloroethene	ND		ug/kg	25	--	1
Chlorobenzene	ND		ug/kg	25	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	50	--	1
1,1,1-Trichloroethane	ND		ug/kg	25	--	1
Bromodichloromethane	ND		ug/kg	25	--	1
trans-1,3-Dichloropropene	ND		ug/kg	50	--	1
cis-1,3-Dichloropropene	ND		ug/kg	25	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--	1
1,1-Dichloropropene	ND		ug/kg	25	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--	1
Benzene	ND		ug/kg	25	--	1
Toluene	ND		ug/kg	50	--	1
Ethylbenzene	ND		ug/kg	50	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	50	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	50	--	1
trans-1,2-Dichloroethene	ND		ug/kg	75	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-09

Date Collected: 05/06/19 00:00

Client ID: TRIP BLANK

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	25	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	50	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	50	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,4-Dichlorobutane	ND		ug/kg	500	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	50	--	1
Dichlorodifluoromethane	ND		ug/kg	500	--	1
Acetone	ND		ug/kg	500	--	1
Carbon disulfide	ND		ug/kg	500	--	1
2-Butanone	ND		ug/kg	500	--	1
Vinyl acetate	ND		ug/kg	500	--	1
4-Methyl-2-pentanone	ND		ug/kg	500	--	1
2-Hexanone	ND		ug/kg	500	--	1
Ethyl methacrylate	ND		ug/kg	500	--	1
Acrylonitrile	ND		ug/kg	200	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	100	--	1
1,2-Dibromoethane	ND		ug/kg	50	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--	1
Bromobenzene	ND		ug/kg	100	--	1
n-Butylbenzene	ND		ug/kg	50	--	1
sec-Butylbenzene	ND		ug/kg	50	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-09  
 Client ID: TRIP BLANK  
 Sample Location: BREWER, ME

Date Collected: 05/06/19 00:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Isopropylbenzene	ND		ug/kg	50	--	1
p-Isopropyltoluene	ND		ug/kg	50	--	1
Naphthalene	ND		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	50	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--	1
Ethyl ether	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	93		70-130



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-10  
 Client ID: B-06 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:30  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/21/19 10:59  
 Analyst: JC  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	14	--	1
1,1-Dichloroethane	ND		ug/kg	2.8	--	1
Chloroform	ND		ug/kg	4.2	--	1
Carbon tetrachloride	ND		ug/kg	2.8	--	1
1,2-Dichloropropane	ND		ug/kg	2.8	--	1
Dibromochloromethane	ND		ug/kg	2.8	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.8	--	1
Tetrachloroethene	ND		ug/kg	1.4	--	1
Chlorobenzene	ND		ug/kg	1.4	--	1
Trichlorofluoromethane	ND		ug/kg	11	--	1
1,2-Dichloroethane	ND		ug/kg	2.8	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	--	1
Bromodichloromethane	ND		ug/kg	1.4	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.8	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	--	1
1,1-Dichloropropene	ND		ug/kg	1.4	--	1
Bromoform	ND		ug/kg	11	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	--	1
Benzene	ND		ug/kg	1.4	--	1
Toluene	3.4		ug/kg	2.8	--	1
Ethylbenzene	ND		ug/kg	2.8	--	1
Chloromethane	ND		ug/kg	11	--	1
Bromomethane	ND		ug/kg	5.7	--	1
Vinyl chloride	ND		ug/kg	2.8	--	1
Chloroethane	ND		ug/kg	5.7	--	1
1,1-Dichloroethene	ND		ug/kg	2.8	--	1
trans-1,2-Dichloroethene	ND		ug/kg	4.2	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-10

Date Collected: 05/09/19 11:30

Client ID: B-06 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	--	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	--	1
Methyl tert butyl ether	ND		ug/kg	5.7	--	1
p/m-Xylene	ND		ug/kg	5.7	--	1
o-Xylene	ND		ug/kg	2.8	--	1
Xylenes, Total	ND		ug/kg	2.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.8	--	1
Dibromomethane	ND		ug/kg	5.7	--	1
1,4-Dichlorobutane	ND		ug/kg	28	--	1
1,2,3-Trichloropropane	ND		ug/kg	5.7	--	1
Styrene	ND		ug/kg	2.8	--	1
Dichlorodifluoromethane	ND		ug/kg	28	--	1
Acetone	660		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	28	--	1
2-Butanone	ND		ug/kg	28	--	1
Vinyl acetate	ND		ug/kg	28	--	1
4-Methyl-2-pentanone	ND		ug/kg	28	--	1
2-Hexanone	ND		ug/kg	28	--	1
Ethyl methacrylate	ND		ug/kg	28	--	1
Acrylonitrile	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	5.7	--	1
Tetrahydrofuran	ND		ug/kg	11	--	1
2,2-Dichloropropane	ND		ug/kg	5.7	--	1
1,2-Dibromoethane	ND		ug/kg	2.8	--	1
1,3-Dichloropropane	ND		ug/kg	5.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	--	1
Bromobenzene	ND		ug/kg	5.7	--	1
n-Butylbenzene	ND		ug/kg	2.8	--	1
sec-Butylbenzene	ND		ug/kg	2.8	--	1
tert-Butylbenzene	ND		ug/kg	5.7	--	1
o-Chlorotoluene	ND		ug/kg	5.7	--	1
p-Chlorotoluene	ND		ug/kg	5.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.5	--	1
Hexachlorobutadiene	ND		ug/kg	11	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-10  
 Client ID: B-06 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:30  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	2.8	--	1
p-Isopropyltoluene	ND		ug/kg	2.8	--	1
Naphthalene	ND		ug/kg	11	--	1
n-Propylbenzene	ND		ug/kg	2.8	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	--	1
Ethyl ether	ND		ug/kg	5.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	95		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-11  
 Client ID: SS-02 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 21:01  
 Analyst: MV  
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.7	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.58	--	1
Chlorobenzene	ND		ug/kg	0.58	--	1
Trichlorofluoromethane	ND		ug/kg	4.6	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	--	1
Bromodichloromethane	ND		ug/kg	0.58	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	--	1
1,1-Dichloropropene	ND		ug/kg	0.58	--	1
Bromoform	ND		ug/kg	4.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Benzene	ND		ug/kg	0.58	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.6	--	1
Bromomethane	ND		ug/kg	2.3	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-11

Date Collected: 05/09/19 12:00

Client ID: SS-02 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	--	1
Methyl tert butyl ether	ND		ug/kg	2.3	--	1
p/m-Xylene	ND		ug/kg	2.3	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.3	--	1
1,4-Dichlorobutane	ND		ug/kg	12	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	260		ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
2-Butanone	ND		ug/kg	12	--	1
Vinyl acetate	ND		ug/kg	12	--	1
4-Methyl-2-pentanone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Ethyl methacrylate	ND		ug/kg	12	--	1
Acrylonitrile	ND		ug/kg	4.6	--	1
Bromochloromethane	ND		ug/kg	2.3	--	1
Tetrahydrofuran	ND		ug/kg	4.6	--	1
2,2-Dichloropropane	ND		ug/kg	2.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Bromobenzene	ND		ug/kg	2.3	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.3	--	1
o-Chlorotoluene	ND		ug/kg	2.3	--	1
p-Chlorotoluene	ND		ug/kg	2.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	--	1
Hexachlorobutadiene	ND		ug/kg	4.6	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

**Lab ID:** L1919966-11  
**Client ID:** SS-02 (0-2')  
**Sample Location:** BREWER, ME

**Date Collected:** 05/09/19 12:00  
**Date Received:** 05/13/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.6	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	--	1
Ethyl ether	ND		ug/kg	2.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-12  
 Client ID: SS-03 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:05  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 21:27  
 Analyst: MV  
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	8.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.7	--	1
Chloroform	ND		ug/kg	2.6	--	1
Carbon tetrachloride	ND		ug/kg	1.7	--	1
1,2-Dichloropropane	ND		ug/kg	1.7	--	1
Dibromochloromethane	ND		ug/kg	1.7	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	--	1
Tetrachloroethene	ND		ug/kg	0.86	--	1
Chlorobenzene	ND		ug/kg	0.86	--	1
Trichlorofluoromethane	ND		ug/kg	6.8	--	1
1,2-Dichloroethane	ND		ug/kg	1.7	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.86	--	1
Bromodichloromethane	ND		ug/kg	0.86	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.86	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.86	--	1
1,1-Dichloropropene	ND		ug/kg	0.86	--	1
Bromoform	ND		ug/kg	6.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.86	--	1
Benzene	ND		ug/kg	0.86	--	1
Toluene	ND		ug/kg	1.7	--	1
Ethylbenzene	ND		ug/kg	1.7	--	1
Chloromethane	ND		ug/kg	6.8	--	1
Bromomethane	ND		ug/kg	3.4	--	1
Vinyl chloride	ND		ug/kg	1.7	--	1
Chloroethane	ND		ug/kg	3.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.7	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-12

Date Collected: 05/09/19 12:05

Client ID: SS-03 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.86	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	--	1
Methyl tert butyl ether	ND		ug/kg	3.4	--	1
p/m-Xylene	ND		ug/kg	3.4	--	1
o-Xylene	ND		ug/kg	1.7	--	1
Xylenes, Total	ND		ug/kg	1.7	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	--	1
Dibromomethane	ND		ug/kg	3.4	--	1
1,4-Dichlorobutane	ND		ug/kg	17	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.4	--	1
Styrene	8.7		ug/kg	1.7	--	1
Dichlorodifluoromethane	ND		ug/kg	17	--	1
Acetone	180		ug/kg	17	--	1
Carbon disulfide	ND		ug/kg	17	--	1
2-Butanone	ND		ug/kg	17	--	1
Vinyl acetate	ND		ug/kg	17	--	1
4-Methyl-2-pentanone	ND		ug/kg	17	--	1
2-Hexanone	ND		ug/kg	17	--	1
Ethyl methacrylate	ND		ug/kg	17	--	1
Acrylonitrile	ND		ug/kg	6.8	--	1
Bromochloromethane	ND		ug/kg	3.4	--	1
Tetrahydrofuran	ND		ug/kg	6.8	--	1
2,2-Dichloropropane	ND		ug/kg	3.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.7	--	1
1,3-Dichloropropane	ND		ug/kg	3.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.86	--	1
Bromobenzene	ND		ug/kg	3.4	--	1
n-Butylbenzene	ND		ug/kg	1.7	--	1
sec-Butylbenzene	ND		ug/kg	1.7	--	1
tert-Butylbenzene	ND		ug/kg	3.4	--	1
o-Chlorotoluene	ND		ug/kg	3.4	--	1
p-Chlorotoluene	ND		ug/kg	3.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	--	1
Hexachlorobutadiene	ND		ug/kg	6.8	--	1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

**Lab ID:** L1919966-12  
**Client ID:** SS-03 (0-2')  
**Sample Location:** BREWER, ME

**Date Collected:** 05/09/19 12:05  
**Date Received:** 05/13/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.7	--	1
p-Isopropyltoluene	ND		ug/kg	1.7	--	1
Naphthalene	ND		ug/kg	6.8	--	1
n-Propylbenzene	ND		ug/kg	1.7	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.6	--	1
Ethyl ether	ND		ug/kg	3.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-13  
 Client ID: B-09 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:15  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 21:53  
 Analyst: MV  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	8.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.8	--	1
Chloroform	ND		ug/kg	2.6	--	1
Carbon tetrachloride	ND		ug/kg	1.8	--	1
1,2-Dichloropropane	ND		ug/kg	1.8	--	1
Dibromochloromethane	ND		ug/kg	1.8	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	--	1
Tetrachloroethene	ND		ug/kg	0.88	--	1
Chlorobenzene	ND		ug/kg	0.88	--	1
Trichlorofluoromethane	ND		ug/kg	7.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.8	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	--	1
Bromodichloromethane	ND		ug/kg	0.88	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.88	--	1
1,1-Dichloropropene	ND		ug/kg	0.88	--	1
Bromoform	ND		ug/kg	7.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	--	1
Benzene	ND		ug/kg	0.88	--	1
Toluene	2.3		ug/kg	1.8	--	1
Ethylbenzene	ND		ug/kg	1.8	--	1
Chloromethane	ND		ug/kg	7.0	--	1
Bromomethane	ND		ug/kg	3.5	--	1
Vinyl chloride	ND		ug/kg	1.8	--	1
Chloroethane	ND		ug/kg	3.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.8	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-13  
 Client ID: B-09 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:15  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	--	1
Methyl tert butyl ether	ND		ug/kg	3.5	--	1
p/m-Xylene	ND		ug/kg	3.5	--	1
o-Xylene	ND		ug/kg	1.8	--	1
Xylenes, Total	ND		ug/kg	1.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	--	1
Dibromomethane	ND		ug/kg	3.5	--	1
1,4-Dichlorobutane	ND		ug/kg	18	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.5	--	1
Styrene	ND		ug/kg	1.8	--	1
Dichlorodifluoromethane	ND		ug/kg	18	--	1
Acetone	460		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	18	--	1
2-Butanone	ND		ug/kg	18	--	1
Vinyl acetate	ND		ug/kg	18	--	1
4-Methyl-2-pentanone	ND		ug/kg	18	--	1
2-Hexanone	ND		ug/kg	18	--	1
Ethyl methacrylate	ND		ug/kg	18	--	1
Acrylonitrile	ND		ug/kg	7.0	--	1
Bromochloromethane	ND		ug/kg	3.5	--	1
Tetrahydrofuran	ND		ug/kg	7.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.5	--	1
1,2-Dibromoethane	ND		ug/kg	1.8	--	1
1,3-Dichloropropane	ND		ug/kg	3.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	--	1
Bromobenzene	ND		ug/kg	3.5	--	1
n-Butylbenzene	ND		ug/kg	1.8	--	1
sec-Butylbenzene	ND		ug/kg	1.8	--	1
tert-Butylbenzene	ND		ug/kg	3.5	--	1
o-Chlorotoluene	ND		ug/kg	3.5	--	1
p-Chlorotoluene	ND		ug/kg	3.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	--	1
Hexachlorobutadiene	ND		ug/kg	7.0	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-13  
 Client ID: B-09 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:15  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.8	--	1
p-Isopropyltoluene	ND		ug/kg	1.8	--	1
Naphthalene	ND		ug/kg	7.0	--	1
n-Propylbenzene	ND		ug/kg	1.8	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.8	--	1
Ethyl ether	ND		ug/kg	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-14  
 Client ID: B-05 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:10  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 22:19  
 Analyst: MV  
 Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	7.7	--	1
1,1-Dichloroethane	ND		ug/kg	1.5	--	1
Chloroform	ND		ug/kg	2.3	--	1
Carbon tetrachloride	ND		ug/kg	1.5	--	1
1,2-Dichloropropane	ND		ug/kg	1.5	--	1
Dibromochloromethane	ND		ug/kg	1.5	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	--	1
Tetrachloroethene	ND		ug/kg	0.77	--	1
Chlorobenzene	ND		ug/kg	0.77	--	1
Trichlorofluoromethane	ND		ug/kg	6.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.5	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	--	1
Bromodichloromethane	ND		ug/kg	0.77	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.77	--	1
1,1-Dichloropropene	ND		ug/kg	0.77	--	1
Bromoform	ND		ug/kg	6.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	--	1
Benzene	ND		ug/kg	0.77	--	1
Toluene	1.5		ug/kg	1.5	--	1
Ethylbenzene	ND		ug/kg	1.5	--	1
Chloromethane	ND		ug/kg	6.2	--	1
Bromomethane	ND		ug/kg	3.1	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	3.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.5	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-14  
 Client ID: B-05 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:10  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.77	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	1
Methyl tert butyl ether	ND		ug/kg	3.1	--	1
p/m-Xylene	ND		ug/kg	3.1	--	1
o-Xylene	ND		ug/kg	1.5	--	1
Xylenes, Total	ND		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,4-Dichlorobutane	ND		ug/kg	15	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	8.8		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	15	--	1
Acetone	140		ug/kg	15	--	1
Carbon disulfide	ND		ug/kg	15	--	1
2-Butanone	22		ug/kg	15	--	1
Vinyl acetate	ND		ug/kg	15	--	1
4-Methyl-2-pentanone	ND		ug/kg	15	--	1
2-Hexanone	ND		ug/kg	15	--	1
Ethyl methacrylate	ND		ug/kg	15	--	1
Acrylonitrile	ND		ug/kg	6.2	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	6.2	--	1
2,2-Dichloropropane	ND		ug/kg	3.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.5	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	--	1
Bromobenzene	ND		ug/kg	3.1	--	1
n-Butylbenzene	ND		ug/kg	1.5	--	1
sec-Butylbenzene	ND		ug/kg	1.5	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	--	1
Hexachlorobutadiene	ND		ug/kg	6.2	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-14  
 Client ID: B-05 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:10  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.5	--	1
p-Isopropyltoluene	ND		ug/kg	1.5	--	1
Naphthalene	ND		ug/kg	6.2	--	1
n-Propylbenzene	ND		ug/kg	1.5	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.7	--	1
Ethyl ether	ND		ug/kg	3.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-15  
 Client ID: B-11 (6-8')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 13:20  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/20/19 22:45  
 Analyst: MV  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.61	--	1
Chlorobenzene	ND		ug/kg	0.61	--	1
Trichlorofluoromethane	ND		ug/kg	4.9	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	--	1
Bromodichloromethane	ND		ug/kg	0.61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	--	1
1,1-Dichloropropene	ND		ug/kg	0.61	--	1
Bromoform	ND		ug/kg	4.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Benzene	ND		ug/kg	0.61	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.9	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1



Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.4	--	1
p/m-Xylene	ND		ug/kg	2.4	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.4	--	1
1,4-Dichlorobutane	ND		ug/kg	12	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	800	E	ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
2-Butanone	ND		ug/kg	12	--	1
Vinyl acetate	ND		ug/kg	12	--	1
4-Methyl-2-pentanone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Ethyl methacrylate	ND		ug/kg	12	--	1
Acrylonitrile	ND		ug/kg	4.9	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	4.9	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Bromobenzene	ND		ug/kg	2.4	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.4	--	1
o-Chlorotoluene	ND		ug/kg	2.4	--	1
p-Chlorotoluene	ND		ug/kg	2.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	--	1
Hexachlorobutadiene	ND		ug/kg	4.9	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-15  
 Client ID: B-11 (6-8')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 13:20  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.9	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	--	1
Ethyl ether	ND		ug/kg	2.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-15  
 Client ID: B-11 (6-8')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 13:20  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/22/19 02:37  
 Analyst: JC  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	330	--	1
1,1-Dichloroethane	ND		ug/kg	67	--	1
Chloroform	ND		ug/kg	100	--	1
Carbon tetrachloride	ND		ug/kg	67	--	1
1,2-Dichloropropane	ND		ug/kg	67	--	1
Dibromochloromethane	ND		ug/kg	67	--	1
1,1,2-Trichloroethane	ND		ug/kg	67	--	1
Tetrachloroethene	ND		ug/kg	33	--	1
Chlorobenzene	ND		ug/kg	33	--	1
Trichlorofluoromethane	ND		ug/kg	270	--	1
1,2-Dichloroethane	ND		ug/kg	67	--	1
1,1,1-Trichloroethane	ND		ug/kg	33	--	1
Bromodichloromethane	ND		ug/kg	33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	67	--	1
cis-1,3-Dichloropropene	ND		ug/kg	33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	--	1
1,1-Dichloropropene	ND		ug/kg	33	--	1
Bromoform	ND		ug/kg	270	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	--	1
Benzene	ND		ug/kg	33	--	1
Toluene	ND		ug/kg	67	--	1
Ethylbenzene	ND		ug/kg	67	--	1
Chloromethane	ND		ug/kg	270	--	1
Bromomethane	ND		ug/kg	130	--	1
Vinyl chloride	ND		ug/kg	67	--	1
Chloroethane	ND		ug/kg	130	--	1
1,1-Dichloroethene	ND		ug/kg	67	--	1
trans-1,2-Dichloroethene	ND		ug/kg	100	--	1

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	33	--	1
1,2-Dichlorobenzene	ND		ug/kg	130	--	1
1,3-Dichlorobenzene	ND		ug/kg	130	--	1
1,4-Dichlorobenzene	ND		ug/kg	130	--	1
Methyl tert butyl ether	ND		ug/kg	130	--	1
p/m-Xylene	ND		ug/kg	130	--	1
o-Xylene	ND		ug/kg	67	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	67	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	130	--	1
1,4-Dichlorobutane	ND		ug/kg	670	--	1
1,2,3-Trichloropropane	ND		ug/kg	130	--	1
Styrene	ND		ug/kg	67	--	1
Dichlorodifluoromethane	ND		ug/kg	670	--	1
Acetone	ND		ug/kg	670	--	1
Carbon disulfide	ND		ug/kg	670	--	1
2-Butanone	ND		ug/kg	670	--	1
Vinyl acetate	ND		ug/kg	670	--	1
4-Methyl-2-pentanone	ND		ug/kg	670	--	1
2-Hexanone	ND		ug/kg	670	--	1
Ethyl methacrylate	ND		ug/kg	670	--	1
Acrylonitrile	ND		ug/kg	270	--	1
Bromochloromethane	ND		ug/kg	130	--	1
Tetrahydrofuran	ND		ug/kg	270	--	1
2,2-Dichloropropane	ND		ug/kg	130	--	1
1,2-Dibromoethane	ND		ug/kg	67	--	1
1,3-Dichloropropane	ND		ug/kg	130	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	--	1
Bromobenzene	ND		ug/kg	130	--	1
n-Butylbenzene	ND		ug/kg	67	--	1
sec-Butylbenzene	ND		ug/kg	67	--	1
tert-Butylbenzene	ND		ug/kg	130	--	1
o-Chlorotoluene	ND		ug/kg	130	--	1
p-Chlorotoluene	ND		ug/kg	130	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	270	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-15  
 Client ID: B-11 (6-8')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 13:20  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Isopropylbenzene	ND		ug/kg	67	--	1
p-Isopropyltoluene	ND		ug/kg	67	--	1
Naphthalene	ND		ug/kg	270	--	1
n-Propylbenzene	ND		ug/kg	67	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	--	1
Ethyl ether	ND		ug/kg	130	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/20/19 17:07  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06,08-09,11-15 Batch: WG1239385-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/20/19 17:07  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06,08-09,11-15 Batch: WG1239385-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/20/19 17:07  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06,08-09,11-15 Batch: WG1239385-5					
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,09 Batch: WG1239533-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,09 Batch: WG1239533-5					
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,4-Dichlorobutane	ND		ug/kg	500	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
2-Butanone	ND		ug/kg	500	--
Vinyl acetate	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Ethyl methacrylate	ND		ug/kg	500	--
Acrolein	ND		ug/kg	1200	--
Acrylonitrile	ND		ug/kg	200	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,09 Batch: WG1239533-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
1,3,5-Trichlorobenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--
Halothane	ND		ug/kg	500	--
Ethyl ether	ND		ug/kg	100	--
Methyl Acetate	ND		ug/kg	200	--
Ethyl Acetate	ND		ug/kg	500	--
Isopropyl Ether	ND		ug/kg	100	--
Cyclohexane	ND		ug/kg	500	--
Tert-Butyl Alcohol	ND		ug/kg	1000	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,09 Batch: WG1239533-5					
Methyl cyclohexane	ND		ug/kg	200	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	200	--
p-Diethylbenzene	ND		ug/kg	100	--
4-Ethyltoluene	ND		ug/kg	100	--
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	92		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,10 Batch: WG1239540-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,10 Batch: WG1239540-5					
Trichloroethene	ND		ug/kg	0.50	--
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrolein	ND		ug/kg	25	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,10 Batch: WG1239540-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	2.0	--
Methyl Acetate	ND		ug/kg	4.0	--
Ethyl Acetate	ND		ug/kg	10	--
Isopropyl Ether	ND		ug/kg	2.0	--
Cyclohexane	ND		ug/kg	10	--
Tert-Butyl Alcohol	ND		ug/kg	20	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--
Methyl cyclohexane	ND		ug/kg	4.0	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 07:56  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,10 Batch: WG1239540-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	4.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	92		70-130



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 18:48  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1239856-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 18:48  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1239856-5					
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,4-Dichlorobutane	ND		ug/kg	500	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
2-Butanone	ND		ug/kg	500	--
Vinyl acetate	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Ethyl methacrylate	ND		ug/kg	500	--
Acrolein	ND		ug/kg	1200	--
Acrylonitrile	ND		ug/kg	200	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 18:48  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1239856-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
1,3,5-Trichlorobenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--
Halothane	ND		ug/kg	500	--
Ethyl ether	ND		ug/kg	100	--
Methyl Acetate	ND		ug/kg	200	--
Ethyl Acetate	ND		ug/kg	500	--
Isopropyl Ether	ND		ug/kg	100	--
Cyclohexane	ND		ug/kg	500	--
Tert-Butyl Alcohol	ND		ug/kg	1000	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/19 18:48  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1239856-5					
Methyl cyclohexane	ND		ug/kg	200	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	200	--
p-Diethylbenzene	ND		ug/kg	100	--
4-Ethyltoluene	ND		ug/kg	100	--
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,08-09,11-15 Batch: WG1239385-3 WG1239385-4								
Methylene chloride	99		98		70-130	1		30
1,1-Dichloroethane	121		120		70-130	1		30
Chloroform	97		95		70-130	2		30
Carbon tetrachloride	98		96		70-130	2		30
1,2-Dichloropropane	119		119		70-130	0		30
Dibromochloromethane	100		97		70-130	3		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	94		92		70-130	2		30
Chlorobenzene	95		92		70-130	3		30
Trichlorofluoromethane	77		75		70-139	3		30
1,2-Dichloroethane	112		110		70-130	2		30
1,1,1-Trichloroethane	98		96		70-130	2		30
Bromodichloromethane	100		98		70-130	2		30
trans-1,3-Dichloropropene	104		104		70-130	0		30
cis-1,3-Dichloropropene	102		101		70-130	1		30
1,1-Dichloropropene	101		100		70-130	1		30
Bromoform	98		95		70-130	3		30
1,1,2,2-Tetrachloroethane	91		89		70-130	2		30
Benzene	98		95		70-130	3		30
Toluene	96		92		70-130	4		30
Ethylbenzene	97		94		70-130	3		30
Chloromethane	148	Q	140	Q	52-130	6		30
Bromomethane	62		63		57-147	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,08-09,11-15 Batch: WG1239385-3 WG1239385-4								
Vinyl chloride	91		89		67-130	2		30
Chloroethane	74		71		50-151	4		30
1,1-Dichloroethene	99		97		65-135	2		30
trans-1,2-Dichloroethene	99		95		70-130	4		30
Trichloroethene	97		95		70-130	2		30
1,2-Dichlorobenzene	95		92		70-130	3		30
1,3-Dichlorobenzene	96		94		70-130	2		30
1,4-Dichlorobenzene	96		90		70-130	6		30
Methyl tert butyl ether	100		98		66-130	2		30
p/m-Xylene	96		95		70-130	1		30
o-Xylene	95		92		70-130	3		30
cis-1,2-Dichloroethene	97		94		70-130	3		30
Dibromomethane	94		94		70-130	0		30
1,4-Dichlorobutane	132	Q	129		70-130	2		30
1,2,3-Trichloropropane	95		92		68-130	3		30
Styrene	93		92		70-130	1		30
Dichlorodifluoromethane	92		88		30-146	4		30
Acetone	132		137		54-140	4		30
Carbon disulfide	100		97		59-130	3		30
2-Butanone	114		116		70-130	2		30
Vinyl acetate	137	Q	134	Q	70-130	2		30
4-Methyl-2-pentanone	125		121		70-130	3		30
2-Hexanone	121		123		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,08-09,11-15 Batch: WG1239385-3 WG1239385-4								
Ethyl methacrylate	87		89		70-130	2		30
Acrylonitrile	130		132	Q	70-130	2		30
Bromochloromethane	101		98		70-130	3		30
Tetrahydrofuran	127		125		66-130	2		30
2,2-Dichloropropane	102		100		70-130	2		30
1,2-Dibromoethane	98		94		70-130	4		30
1,3-Dichloropropane	99		96		69-130	3		30
1,1,1,2-Tetrachloroethane	100		97		70-130	3		30
Bromobenzene	94		92		70-130	2		30
n-Butylbenzene	98		94		70-130	4		30
sec-Butylbenzene	96		93		70-130	3		30
tert-Butylbenzene	97		94		70-130	3		30
o-Chlorotoluene	98		96		70-130	2		30
p-Chlorotoluene	100		96		70-130	4		30
1,2-Dibromo-3-chloropropane	92		89		68-130	3		30
Hexachlorobutadiene	104		101		67-130	3		30
Isopropylbenzene	99		95		70-130	4		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	88		85		70-130	3		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	97		94		70-130	3		30
1,2,4-Trichlorobenzene	98		95		70-130	3		30
1,3,5-Trimethylbenzene	100		96		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,08-09,11-15 Batch: WG1239385-3 WG1239385-4								
1,2,4-Trimethylbenzene	99		95		70-130	4		30
trans-1,4-Dichloro-2-butene	124		134	Q	70-130	8		30
Ethyl ether	103		103		67-130	0		30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		111		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	99		100		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,09 Batch: WG1239533-3 WG1239533-4								
Methylene chloride	99		93		70-130	6		30
1,1-Dichloroethane	108		103		70-130	5		30
Chloroform	98		94		70-130	4		30
Carbon tetrachloride	87		81		70-130	7		30
1,2-Dichloropropane	111		108		70-130	3		30
Dibromochloromethane	91		90		70-130	1		30
1,1,2-Trichloroethane	102		101		70-130	1		30
2-Chloroethylvinyl ether	101		102		70-130	1		30
Tetrachloroethene	83		80		70-130	4		30
Chlorobenzene	91		88		70-130	3		30
Trichlorofluoromethane	73		71		70-139	3		30
1,2-Dichloroethane	98		94		70-130	4		30
1,1,1-Trichloroethane	89		85		70-130	5		30
Bromodichloromethane	95		93		70-130	2		30
trans-1,3-Dichloropropene	103		103		70-130	0		30
cis-1,3-Dichloropropene	104		99		70-130	5		30
1,1-Dichloropropene	98		95		70-130	3		30
Bromoform	91		90		70-130	1		30
1,1,2,2-Tetrachloroethane	104		104		70-130	0		30
Benzene	101		96		70-130	5		30
Toluene	98		94		70-130	4		30
Ethylbenzene	96		93		70-130	3		30
Chloromethane	121		114		52-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,09 Batch: WG1239533-3 WG1239533-4								
Bromomethane	95		89		57-147	7		30
Vinyl chloride	102		97		67-130	5		30
Chloroethane	86		82		50-151	5		30
1,1-Dichloroethene	90		84		65-135	7		30
trans-1,2-Dichloroethene	92		85		70-130	8		30
Trichloroethene	93		90		70-130	3		30
1,2-Dichlorobenzene	92		88		70-130	4		30
1,3-Dichlorobenzene	93		90		70-130	3		30
1,4-Dichlorobenzene	93		90		70-130	3		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	91		87		70-130	4		30
o-Xylene	89		87		70-130	2		30
cis-1,2-Dichloroethene	90		87		70-130	3		30
Dibromomethane	91		89		70-130	2		30
1,4-Dichlorobutane	113		111		70-130	2		30
1,2,3-Trichloropropane	101		103		68-130	2		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	91		83		30-146	9		30
Acetone	118		112		54-140	5		30
Carbon disulfide	100		94		59-130	6		30
2-Butanone	97		94		70-130	3		30
Vinyl acetate	102		106		70-130	4		30
4-Methyl-2-pentanone	103		108		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,09 Batch: WG1239533-3 WG1239533-4								
2-Hexanone	107		113		70-130	5		30
Ethyl methacrylate	98		99		70-130	1		30
Acrolein	97		102		70-130	5		30
Acrylonitrile	101		109		70-130	8		30
Bromochloromethane	88		86		70-130	2		30
Tetrahydrofuran	120		124		66-130	3		30
2,2-Dichloropropane	98		94		70-130	4		30
1,2-Dibromoethane	91		94		70-130	3		30
1,3-Dichloropropane	103		103		69-130	0		30
1,1,1,2-Tetrachloroethane	90		88		70-130	2		30
Bromobenzene	92		88		70-130	4		30
n-Butylbenzene	104		98		70-130	6		30
sec-Butylbenzene	100		95		70-130	5		30
tert-Butylbenzene	98		93		70-130	5		30
1,3,5-Trichlorobenzene	94		88		70-139	7		30
o-Chlorotoluene	106		83		70-130	24		30
p-Chlorotoluene	106		103		70-130	3		30
1,2-Dibromo-3-chloropropane	84		88		68-130	5		30
Hexachlorobutadiene	96		89		67-130	8		30
Isopropylbenzene	102		94		70-130	8		30
p-Isopropyltoluene	97		92		70-130	5		30
Naphthalene	88		87		70-130	1		30
n-Propylbenzene	105		99		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,09 Batch: WG1239533-3 WG1239533-4								
1,2,3-Trichlorobenzene	89		86		70-130	3		30
1,2,4-Trichlorobenzene	94		88		70-130	7		30
1,3,5-Trimethylbenzene	101		96		70-130	5		30
1,2,4-Trimethylbenzene	99		95		70-130	4		30
trans-1,4-Dichloro-2-butene	110		112		70-130	2		30
Halothane	89		86		70-130	3		20
Ethyl ether	102		102		67-130	0		30
Methyl Acetate	97		102		65-130	5		30
Ethyl Acetate	110		116		70-130	5		30
Isopropyl Ether	118		116		66-130	2		30
Cyclohexane	115		110		70-130	4		30
Tert-Butyl Alcohol	102		110		70-130	8		30
Ethyl-Tert-Butyl-Ether	107		106		70-130	1		30
Tertiary-Amyl Methyl Ether	97		96		70-130	1		30
1,4-Dioxane	92		96		65-136	4		30
Methyl cyclohexane	98		94		70-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		88		70-130	7		30
p-Diethylbenzene	97		92		70-130	5		30
4-Ethyltoluene	102		95		70-130	7		30
1,2,4,5-Tetramethylbenzene	95		90		70-130	5		30

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,09 Batch: WG1239533-3 WG1239533-4								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	119		116		70-130
Dibromofluoromethane	95		97		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,10 Batch: WG1239540-3 WG1239540-4								
Methylene chloride	99		93		70-130	6		30
1,1-Dichloroethane	108		103		70-130	5		30
Chloroform	98		94		70-130	4		30
Carbon tetrachloride	87		81		70-130	7		30
1,2-Dichloropropane	111		108		70-130	3		30
Dibromochloromethane	91		90		70-130	1		30
1,1,2-Trichloroethane	102		101		70-130	1		30
2-Chloroethylvinyl ether	101		102		70-130	1		30
Tetrachloroethene	83		80		70-130	4		30
Chlorobenzene	91		88		70-130	3		30
Trichlorofluoromethane	73		71		70-139	3		30
1,2-Dichloroethane	98		94		70-130	4		30
1,1,1-Trichloroethane	89		85		70-130	5		30
Bromodichloromethane	95		93		70-130	2		30
trans-1,3-Dichloropropene	103		103		70-130	0		30
cis-1,3-Dichloropropene	104		99		70-130	5		30
1,1-Dichloropropene	98		95		70-130	3		30
Bromoform	91		90		70-130	1		30
1,1,2,2-Tetrachloroethane	104		104		70-130	0		30
Benzene	101		96		70-130	5		30
Toluene	98		94		70-130	4		30
Ethylbenzene	96		93		70-130	3		30
Chloromethane	121		114		52-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,10 Batch: WG1239540-3 WG1239540-4								
Bromomethane	95		89		57-147	7		30
Vinyl chloride	102		97		67-130	5		30
Chloroethane	86		82		50-151	5		30
1,1-Dichloroethene	90		84		65-135	7		30
trans-1,2-Dichloroethene	92		85		70-130	8		30
Trichloroethene	93		90		70-130	3		30
1,2-Dichlorobenzene	92		88		70-130	4		30
1,3-Dichlorobenzene	93		90		70-130	3		30
1,4-Dichlorobenzene	93		90		70-130	3		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	91		87		70-130	4		30
o-Xylene	89		87		70-130	2		30
cis-1,2-Dichloroethene	90		87		70-130	3		30
Dibromomethane	91		89		70-130	2		30
1,4-Dichlorobutane	113		111		70-130	2		30
1,2,3-Trichloropropane	101		103		68-130	2		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	91		83		30-146	9		30
Acetone	118		112		54-140	5		30
Carbon disulfide	100		94		59-130	6		30
2-Butanone	97		94		70-130	3		30
Vinyl acetate	102		106		70-130	4		30
4-Methyl-2-pentanone	103		108		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,10 Batch: WG1239540-3 WG1239540-4								
2-Hexanone	107		113		70-130	5		30
Ethyl methacrylate	98		99		70-130	1		30
Acrolein	97		102		70-130	5		30
Acrylonitrile	101		109		70-130	8		30
Bromochloromethane	88		86		70-130	2		30
Tetrahydrofuran	120		124		66-130	3		30
2,2-Dichloropropane	98		94		70-130	4		30
1,2-Dibromoethane	91		94		70-130	3		30
1,3-Dichloropropane	103		103		69-130	0		30
1,1,1,2-Tetrachloroethane	90		88		70-130	2		30
Bromobenzene	92		88		70-130	4		30
n-Butylbenzene	104		98		70-130	6		30
sec-Butylbenzene	100		95		70-130	5		30
tert-Butylbenzene	98		93		70-130	5		30
1,3,5-Trichlorobenzene	94		88		70-139	7		30
o-Chlorotoluene	106		83		70-130	24		30
p-Chlorotoluene	106		103		70-130	3		30
1,2-Dibromo-3-chloropropane	84		88		68-130	5		30
Hexachlorobutadiene	96		89		67-130	8		30
Isopropylbenzene	102		94		70-130	8		30
p-Isopropyltoluene	97		92		70-130	5		30
Naphthalene	88		87		70-130	1		30
n-Propylbenzene	105		99		70-130	6		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,10 Batch: WG1239540-3 WG1239540-4									
1,2,3-Trichlorobenzene	89		86		70-130		3		30
1,2,4-Trichlorobenzene	94		88		70-130		7		30
1,3,5-Trimethylbenzene	101		96		70-130		5		30
1,2,4-Trimethylbenzene	99		95		70-130		4		30
trans-1,4-Dichloro-2-butene	110		112		70-130		2		30
Ethyl ether	102		102		67-130		0		30
Methyl Acetate	97		102		65-130		5		30
Ethyl Acetate	110		116		70-130		5		30
Isopropyl Ether	118		116		66-130		2		30
Cyclohexane	115		110		70-130		4		30
Tert-Butyl Alcohol	102		110		70-130		8		30
Ethyl-Tert-Butyl-Ether	107		106		70-130		1		30
Tertiary-Amyl Methyl Ether	97		96		70-130		1		30
1,4-Dioxane	92		96		65-136		4		30
Methyl cyclohexane	98		94		70-130		4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		88		70-130		7		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	119		117		70-130
Dibromofluoromethane	95		97		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1239856-3 WG1239856-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	107		105		70-130	2		30
Chloroform	104		103		70-130	1		30
Carbon tetrachloride	105		104		70-130	1		30
1,2-Dichloropropane	102		100		70-130	2		30
Dibromochloromethane	96		94		70-130	2		30
1,1,2-Trichloroethane	98		98		70-130	0		30
2-Chloroethylvinyl ether	102		101		70-130	1		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	93		93		70-130	0		30
Trichlorofluoromethane	118		115		70-139	3		30
1,2-Dichloroethane	112		111		70-130	1		30
1,1,1-Trichloroethane	108		106		70-130	2		30
Bromodichloromethane	103		105		70-130	2		30
trans-1,3-Dichloropropene	100		101		70-130	1		30
cis-1,3-Dichloropropene	103		102		70-130	1		30
1,1-Dichloropropene	104		102		70-130	2		30
Bromoform	93		92		70-130	1		30
1,1,2,2-Tetrachloroethane	98		96		70-130	2		30
Benzene	100		100		70-130	0		30
Toluene	96		95		70-130	1		30
Ethylbenzene	100		100		70-130	0		30
Chloromethane	117		114		52-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1239856-3 WG1239856-4								
Bromomethane	123		117		57-147	5		30
Vinyl chloride	119		115		67-130	3		30
Chloroethane	143		141		50-151	1		30
1,1-Dichloroethene	101		98		65-135	3		30
trans-1,2-Dichloroethene	98		96		70-130	2		30
Trichloroethene	102		102		70-130	0		30
1,2-Dichlorobenzene	91		89		70-130	2		30
1,3-Dichlorobenzene	93		94		70-130	1		30
1,4-Dichlorobenzene	92		90		70-130	2		30
Methyl tert butyl ether	97		96		66-130	1		30
p/m-Xylene	101		101		70-130	0		30
o-Xylene	100		99		70-130	1		30
cis-1,2-Dichloroethene	98		96		70-130	2		30
Dibromomethane	102		102		70-130	0		30
1,4-Dichlorobutane	106		104		70-130	2		30
1,2,3-Trichloropropane	97		96		68-130	1		30
Styrene	104		105		70-130	1		30
Dichlorodifluoromethane	108		104		30-146	4		30
Acetone	139		116		54-140	18		30
Carbon disulfide	102		99		59-130	3		30
2-Butanone	98		98		70-130	0		30
Vinyl acetate	114		112		70-130	2		30
4-Methyl-2-pentanone	83		82		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1239856-3 WG1239856-4								
2-Hexanone	101		97		70-130	4		30
Ethyl methacrylate	86		87		70-130	1		30
Acrolein	90		87		70-130	3		30
Acrylonitrile	103		103		70-130	0		30
Bromochloromethane	97		96		70-130	1		30
Tetrahydrofuran	103		101		66-130	2		30
2,2-Dichloropropane	111		109		70-130	2		30
1,2-Dibromoethane	95		95		70-130	0		30
1,3-Dichloropropane	98		98		69-130	0		30
1,1,1,2-Tetrachloroethane	95		96		70-130	1		30
Bromobenzene	90		89		70-130	1		30
n-Butylbenzene	104		102		70-130	2		30
sec-Butylbenzene	100		100		70-130	0		30
tert-Butylbenzene	96		94		70-130	2		30
1,3,5-Trichlorobenzene	89		87		70-139	2		30
o-Chlorotoluene	99		97		70-130	2		30
p-Chlorotoluene	97		97		70-130	0		30
1,2-Dibromo-3-chloropropane	87		87		68-130	0		30
Hexachlorobutadiene	86		84		67-130	2		30
Isopropylbenzene	97		96		70-130	1		30
p-Isopropyltoluene	97		96		70-130	1		30
Naphthalene	86		84		70-130	2		30
n-Propylbenzene	99		99		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1239856-3 WG1239856-4								
1,2,3-Trichlorobenzene	87		84		70-130	4		30
1,2,4-Trichlorobenzene	84		82		70-130	2		30
1,3,5-Trimethylbenzene	98		98		70-130	0		30
1,2,4-Trimethylbenzene	98		98		70-130	0		30
trans-1,4-Dichloro-2-butene	111		111		70-130	0		30
Halothane	99		96		70-130	3		20
Ethyl ether	113		111		67-130	2		30
Methyl Acetate	105		102		65-130	3		30
Ethyl Acetate	110		108		70-130	2		30
Isopropyl Ether	104		103		66-130	1		30
Cyclohexane	105		104		70-130	1		30
Tert-Butyl Alcohol	103		100		70-130	3		30
Ethyl-Tert-Butyl-Ether	102		102		70-130	0		30
Tertiary-Amyl Methyl Ether	98		98		70-130	0		30
1,4-Dioxane	98		102		65-136	4		30
Methyl cyclohexane	98		98		70-130	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		101		70-130	2		30
p-Diethylbenzene	96		95		70-130	1		30
4-Ethyltoluene	98		97		70-130	1		30
1,2,4,5-Tetramethylbenzene	92		90		70-130	2		30

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1239856-3 WG1239856-4								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
1,2-Dichloroethane-d4	114		113		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	102		102		70-130

# SEMIVOLATILES

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-01  
 Client ID: B-03 (3-4')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/21/19 12:33  
 Analyst: DV  
 Percent Solids: 45%

Extraction Method: EPA 3546  
 Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	42	--	1
2-Chloronaphthalene	ND		ug/kg	42	--	1
Fluoranthene	340		ug/kg	42	--	1
Hexachlorobutadiene	ND		ug/kg	42	--	1
Naphthalene	410		ug/kg	42	--	1
Benzo(a)anthracene	160		ug/kg	42	--	1
Benzo(a)pyrene	170		ug/kg	42	--	1
Benzo(b)fluoranthene	240		ug/kg	42	--	1
Benzo(k)fluoranthene	91		ug/kg	42	--	1
Chrysene	170		ug/kg	42	--	1
Acenaphthylene	65		ug/kg	42	--	1
Anthracene	53		ug/kg	42	--	1
Benzo(ghi)perylene	120		ug/kg	42	--	1
Fluorene	ND		ug/kg	42	--	1
Phenanthrene	280		ug/kg	42	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	42	--	1
Indeno(1,2,3-cd)Pyrene	110		ug/kg	42	--	1
Pyrene	310		ug/kg	42	--	1
1-Methylnaphthalene	52		ug/kg	42	--	1
2-Methylnaphthalene	82		ug/kg	42	--	1
Pentachlorophenol	ND		ug/kg	170	--	1
Hexachlorobenzene	ND		ug/kg	42	--	1
Hexachloroethane	ND		ug/kg	42	--	1



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-01  
 Client ID: B-03 (3-4')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 10:00  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	100		0-136
4-Terphenyl-d14	78		18-120

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-03  
 Client ID: B-13 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/21/19 12:57  
 Analyst: DV  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	7.2	--	1
2-Chloronaphthalene	ND		ug/kg	7.2	--	1
Fluoranthene	ND		ug/kg	7.2	--	1
Hexachlorobutadiene	ND		ug/kg	7.2	--	1
Naphthalene	ND		ug/kg	7.2	--	1
Benzo(a)anthracene	ND		ug/kg	7.2	--	1
Benzo(a)pyrene	ND		ug/kg	7.2	--	1
Benzo(b)fluoranthene	ND		ug/kg	7.2	--	1
Benzo(k)fluoranthene	ND		ug/kg	7.2	--	1
Chrysene	ND		ug/kg	7.2	--	1
Acenaphthylene	ND		ug/kg	7.2	--	1
Anthracene	ND		ug/kg	7.2	--	1
Benzo(ghi)perylene	ND		ug/kg	7.2	--	1
Fluorene	ND		ug/kg	7.2	--	1
Phenanthrene	ND		ug/kg	7.2	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	7.2	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	7.2	--	1
Pyrene	ND		ug/kg	7.2	--	1
1-Methylnaphthalene	ND		ug/kg	7.2	--	1
2-Methylnaphthalene	ND		ug/kg	7.2	--	1
Pentachlorophenol	ND		ug/kg	29	--	1
Hexachlorobenzene	ND		ug/kg	7.2	--	1
Hexachloroethane	ND		ug/kg	7.2	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-03  
 Client ID: B-13 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	115		0-136
4-Terphenyl-d14	86		18-120

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-06  
 Client ID: B-06 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/21/19 13:22  
 Analyst: DV  
 Percent Solids: 93%

Extraction Method: EPA 3546  
 Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	7.0	--	1
2-Chloronaphthalene	ND		ug/kg	7.0	--	1
Fluoranthene	ND		ug/kg	7.0	--	1
Hexachlorobutadiene	ND		ug/kg	7.0	--	1
Naphthalene	ND		ug/kg	7.0	--	1
Benzo(a)anthracene	ND		ug/kg	7.0	--	1
Benzo(a)pyrene	ND		ug/kg	7.0	--	1
Benzo(b)fluoranthene	ND		ug/kg	7.0	--	1
Benzo(k)fluoranthene	ND		ug/kg	7.0	--	1
Chrysene	ND		ug/kg	7.0	--	1
Acenaphthylene	ND		ug/kg	7.0	--	1
Anthracene	ND		ug/kg	7.0	--	1
Benzo(ghi)perylene	ND		ug/kg	7.0	--	1
Fluorene	ND		ug/kg	7.0	--	1
Phenanthrene	ND		ug/kg	7.0	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	7.0	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	7.0	--	1
Pyrene	ND		ug/kg	7.0	--	1
1-Methylnaphthalene	ND		ug/kg	7.0	--	1
2-Methylnaphthalene	ND		ug/kg	7.0	--	1
Pentachlorophenol	ND		ug/kg	28	--	1
Hexachlorobenzene	ND		ug/kg	7.0	--	1
Hexachloroethane	ND		ug/kg	7.0	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-06  
 Client ID: B-06 (12-13')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	99		0-136
4-Terphenyl-d14	67		18-120

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-07 D  
 Client ID: B-09 (9-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:25  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/23/19 03:00  
 Analyst: CB  
 Percent Solids: 79%

Extraction Method: EPA 3546  
 Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	130		ug/kg	42	--	5
2-Chloronaphthalene	ND		ug/kg	42	--	5
Fluoranthene	1500		ug/kg	42	--	5
Hexachlorobutadiene	ND		ug/kg	42	--	5
Naphthalene	85		ug/kg	42	--	5
Benzo(a)anthracene	750		ug/kg	42	--	5
Benzo(a)pyrene	660		ug/kg	42	--	5
Benzo(b)fluoranthene	800		ug/kg	42	--	5
Benzo(k)fluoranthene	280		ug/kg	42	--	5
Chrysene	670		ug/kg	42	--	5
Acenaphthylene	110		ug/kg	42	--	5
Anthracene	370		ug/kg	42	--	5
Benzo(ghi)perylene	350		ug/kg	42	--	5
Fluorene	140		ug/kg	42	--	5
Phenanthrene	1200		ug/kg	42	--	5
Dibenzo(a,h)anthracene	100		ug/kg	42	--	5
Indeno(1,2,3-cd)Pyrene	310		ug/kg	42	--	5
Pyrene	1400		ug/kg	42	--	5
1-Methylnaphthalene	48		ug/kg	42	--	5
2-Methylnaphthalene	47		ug/kg	42	--	5
Pentachlorophenol	ND		ug/kg	170	--	5
Hexachlorobenzene	ND		ug/kg	42	--	5
Hexachloroethane	ND		ug/kg	42	--	5

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-07 D  
 Client ID: B-09 (9-10')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:25  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	82		0-136
4-Terphenyl-d14	62		18-120

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-10 D  
 Client ID: B-06 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:30  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/21/19 19:26  
 Analyst: DV  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	43		ug/kg	37	--	5
2-Chloronaphthalene	ND		ug/kg	37	--	5
Fluoranthene	1500		ug/kg	37	--	5
Hexachlorobutadiene	ND		ug/kg	37	--	5
Naphthalene	ND		ug/kg	37	--	5
Benzo(a)anthracene	1500		ug/kg	37	--	5
Benzo(a)pyrene	1700		ug/kg	37	--	5
Benzo(b)fluoranthene	1800		ug/kg	37	--	5
Benzo(k)fluoranthene	650		ug/kg	37	--	5
Chrysene	1400		ug/kg	37	--	5
Acenaphthylene	190		ug/kg	37	--	5
Anthracene	190		ug/kg	37	--	5
Benzo(ghi)perylene	1000		ug/kg	37	--	5
Fluorene	42		ug/kg	37	--	5
Phenanthrene	450		ug/kg	37	--	5
Dibenzo(a,h)anthracene	280		ug/kg	37	--	5
Indeno(1,2,3-cd)Pyrene	820		ug/kg	37	--	5
Pyrene	2200		ug/kg	37	--	5
1-Methylnaphthalene	ND		ug/kg	37	--	5
2-Methylnaphthalene	ND		ug/kg	37	--	5
Pentachlorophenol	ND		ug/kg	150	--	5
Hexachlorobenzene	ND		ug/kg	37	--	5
Hexachloroethane	ND		ug/kg	37	--	5



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-10 D  
 Client ID: B-06 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 11:30  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	85		0-136
4-Terphenyl-d14	47		18-120

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-13  
 Client ID: B-09 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:15  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/21/19 15:48  
 Analyst: DV  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	10	--	1
2-Chloronaphthalene	ND		ug/kg	10	--	1
Fluoranthene	ND		ug/kg	10	--	1
Hexachlorobutadiene	ND		ug/kg	10	--	1
Naphthalene	ND		ug/kg	10	--	1
Benzo(a)anthracene	ND		ug/kg	10	--	1
Benzo(a)pyrene	ND		ug/kg	10	--	1
Benzo(b)fluoranthene	ND		ug/kg	10	--	1
Benzo(k)fluoranthene	ND		ug/kg	10	--	1
Chrysene	ND		ug/kg	10	--	1
Acenaphthylene	ND		ug/kg	10	--	1
Anthracene	ND		ug/kg	10	--	1
Benzo(ghi)perylene	ND		ug/kg	10	--	1
Fluorene	ND		ug/kg	10	--	1
Phenanthrene	ND		ug/kg	10	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	10	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	10	--	1
Pyrene	ND		ug/kg	10	--	1
1-Methylnaphthalene	ND		ug/kg	10	--	1
2-Methylnaphthalene	ND		ug/kg	10	--	1
Pentachlorophenol	ND		ug/kg	41	--	1
Hexachlorobenzene	ND		ug/kg	10	--	1
Hexachloroethane	ND		ug/kg	10	--	1

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-13  
 Client ID: B-09 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:15  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	112		0-136
4-Terphenyl-d14	73		18-120

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 05/21/19 11:13  
Analyst: DV

Extraction Method: EPA 3546  
Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03,06-07,10,13 Batch: WG1238762-1					
Acenaphthene	ND		ug/kg	6.5	--
2-Chloronaphthalene	ND		ug/kg	6.5	--
Fluoranthene	ND		ug/kg	6.5	--
Hexachlorobutadiene	ND		ug/kg	6.5	--
Naphthalene	ND		ug/kg	6.5	--
Benzo(a)anthracene	ND		ug/kg	6.5	--
Benzo(a)pyrene	ND		ug/kg	6.5	--
Benzo(b)fluoranthene	ND		ug/kg	6.5	--
Benzo(k)fluoranthene	ND		ug/kg	6.5	--
Chrysene	ND		ug/kg	6.5	--
Acenaphthylene	ND		ug/kg	6.5	--
Anthracene	ND		ug/kg	6.5	--
Benzo(ghi)perylene	ND		ug/kg	6.5	--
Fluorene	ND		ug/kg	6.5	--
Phenanthrene	ND		ug/kg	6.5	--
Dibenzo(a,h)anthracene	ND		ug/kg	6.5	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	6.5	--
Pyrene	ND		ug/kg	6.5	--
1-Methylnaphthalene	ND		ug/kg	6.5	--
2-Methylnaphthalene	ND		ug/kg	6.5	--
Pentachlorophenol	ND		ug/kg	26	--
Hexachlorobenzene	ND		ug/kg	6.5	--
Hexachloroethane	ND		ug/kg	6.5	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 05/21/19 11:13  
Analyst: DV

Extraction Method: EPA 3546  
Extraction Date: 05/19/19 07:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03,06-07,10,13 Batch: WG1238762-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	105		0-136
4-Terphenyl-d14	93		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03,06-07,10,13 Batch: WG1238762-2 WG1238762-3								
Acenaphthene	68		72		40-140	6		50
2-Chloronaphthalene	73		76		40-140	4		50
Fluoranthene	71		77		40-140	8		50
Hexachlorobutadiene	70		72		34-107	3		50
Naphthalene	66		68		40-140	3		50
Benzo(a)anthracene	67		72		40-140	7		50
Benzo(a)pyrene	67		73		40-140	9		50
Benzo(b)fluoranthene	64		69		40-140	8		50
Benzo(k)fluoranthene	66		71		40-140	7		50
Chrysene	65		69		40-140	6		50
Acenaphthylene	74		81		40-140	9		50
Anthracene	73		77		40-140	5		50
Benzo(ghi)perylene	73		77		40-140	5		50
Fluorene	70		76		40-140	8		50
Phenanthrene	66		70		40-140	6		50
Dibenzo(a,h)anthracene	75		80		40-140	6		50
Indeno(1,2,3-cd)Pyrene	73		78		40-140	7		50
Pyrene	72		76		35-142	5		50
1-Methylnaphthalene	69		73		40-140	6		50
2-Methylnaphthalene	69		74		40-140	7		50
Pentachlorophenol	78		83		17-109	6		50
Hexachlorobenzene	70		74		40-140	6		50
Hexachloroethane	68		69		29-106	1		50

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03,06-07,10,13 Batch: WG1238762-2 WG1238762-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	65		65		25-120
Phenol-d6	64		64		10-120
Nitrobenzene-d5	70		70		23-120
2-Fluorobiphenyl	72		76		30-120
2,4,6-Tribromophenol	97		107		0-136
4-Terphenyl-d14	81		87		18-120

# **PETROLEUM HYDROCARBONS**



Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-01

Date Collected: 05/09/19 10:00

Client ID: B-03 (3-4')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 12:45

Analyst: BAD

Percent Solids: 45%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um

## Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

2.3:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	ND		mg/kg	31.2	--	1
C9-C12 Aliphatics	ND		mg/kg	31.2	--	1
C9-C10 Aromatics	ND		mg/kg	31.2	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	31.2	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	31.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	138	Q	70-130
2,5-Dibromotoluene-FID	145	Q	70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-01

Date Collected: 05/09/19 10:00

Client ID: B-03 (3-4')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 15:35

Analytical Date: 05/19/19 13:00

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/18/19

Percent Solids: 45%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		mg/kg	14.4	--	1
C19-C36 Aliphatics	15.7		mg/kg	14.4	--	1
C11-C22 Aromatics	246		mg/kg	14.4	--	1
C11-C22 Aromatics, Adjusted	246		mg/kg	14.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	43		40-140
o-Terphenyl	45		40-140
2-Fluorobiphenyl	60		40-140
2-Bromonaphthalene	61		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-02

Date Collected: 05/09/19 09:48

Client ID: B-12 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 13:16

Analyst: BAD

Percent Solids: 88%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	8.34	--	1
C9-C12 Aliphatics	ND		mg/kg	8.34	--	1
C9-C10 Aromatics	ND		mg/kg	8.34	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	8.34	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	8.34	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	113		70-130
2,5-Dibromotoluene-FID	117		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-03

Date Collected: 05/09/19 11:45

Client ID: B-13 (12-13')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 13:47

Analyst: BAD

Percent Solids: 91%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	6.29	--	1
C9-C12 Aliphatics	ND		mg/kg	6.29	--	1
C9-C10 Aromatics	ND		mg/kg	6.29	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.29	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	6.29	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	111		70-130
2,5-Dibromotoluene-FID	117		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-03

Date Collected: 05/09/19 11:45

Client ID: B-13 (12-13')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:21

Analytical Date: 05/19/19 13:32

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/18/19

Percent Solids: 91%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		mg/kg	6.94	--	1
C19-C36 Aliphatics	ND		mg/kg	6.94	--	1
C11-C22 Aromatics	ND		mg/kg	6.94	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.94	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	60		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	68		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-04

Date Collected: 05/09/19 12:50

Client ID: B-04 (8-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 14:18

Analyst: BAD

Percent Solids: 89%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

2.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Petroleum Hydrocarbons - Westborough Lab</b>						
C5-C8 Aliphatics	ND		mg/kg	14.2	--	1
C9-C12 Aliphatics	ND		mg/kg	14.2	--	1
C9-C10 Aromatics	ND		mg/kg	14.2	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	14.2	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	14.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	101		70-130
2,5-Dibromotoluene-FID	106		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-04

Date Collected: 05/09/19 12:50

Client ID: B-04 (8-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:18

Analytical Date: 05/21/19 08:47

M.S. Analytical Date: 05/23/19 15:07

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: DV

Cleanup Date1: 05/19/19

Percent Solids: 89%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
C9-C18 Aliphatics	ND		mg/kg	7.30	--	1
C19-C36 Aliphatics	58.4		mg/kg	7.30	--	1
C11-C22 Aromatics	100		mg/kg	7.30	--	1
C11-C22 Aromatics, Adjusted	75.0		mg/kg	7.30	--	1
Naphthalene	0.172		mg/kg	0.058	--	2
2-Methylnaphthalene	0.087		mg/kg	0.058	--	2
Acenaphthylene	0.754		mg/kg	0.058	--	2
Acenaphthene	0.170		mg/kg	0.058	--	2
Fluorene	0.259		mg/kg	0.058	--	2
Phenanthrene	2.97		mg/kg	0.058	--	2
Anthracene	0.509		mg/kg	0.058	--	2
Fluoranthene	4.67		mg/kg	0.058	--	2
Pyrene	3.92		mg/kg	0.058	--	2
Benzo(a)anthracene	2.09		mg/kg	0.058	--	2
Chrysene	2.42		mg/kg	0.058	--	2
Benzo(b)fluoranthene	3.27		mg/kg	0.058	--	2
Benzo(k)fluoranthene	1.09		mg/kg	0.058	--	2
Benzo(a)pyrene	2.27		mg/kg	0.058	--	2
Indeno(1,2,3-cd)Pyrene	1.26		mg/kg	0.058	--	2
Dibenzo(a,h)anthracene	0.412		mg/kg	0.058	--	2
Benzo(ghi)perylene	1.45		mg/kg	0.058	--	2

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-04

Date Collected: 05/09/19 12:50

Client ID: B-04 (8-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	60		40-140
2-Fluorobiphenyl	67		40-140
2-Bromonaphthalene	67		40-140
O-Terphenyl-MS	54		40-140



Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-05

Date Collected: 05/09/19 10:55

Client ID: B-02 (10-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 14:49

Analyst: BAD

Percent Solids: 93%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um

## Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Petroleum Hydrocarbons - Westborough Lab</b>						
C5-C8 Aliphatics	ND		mg/kg	4.98	--	1
C9-C12 Aliphatics	ND		mg/kg	4.98	--	1
C9-C10 Aromatics	ND		mg/kg	4.98	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	4.98	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	4.98	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	116		70-130
2,5-Dibromotoluene-FID	121		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-05

Date Collected: 05/09/19 10:55

Client ID: B-02 (10-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:18

Analytical Date: 05/20/19 05:10

M.S. Analytical Date: 05/20/19 13:49

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: DV

Cleanup Date1: 05/19/19

Percent Solids: 93%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	7.07	--	1
C19-C36 Aliphatics	ND		mg/kg	7.07	--	1
C11-C22 Aromatics	ND		mg/kg	7.07	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.07	--	1
Naphthalene	ND		mg/kg	0.028	--	1
2-Methylnaphthalene	ND		mg/kg	0.028	--	1
Acenaphthylene	ND		mg/kg	0.028	--	1
Acenaphthene	ND		mg/kg	0.028	--	1
Fluorene	ND		mg/kg	0.028	--	1
Phenanthrene	ND		mg/kg	0.028	--	1
Anthracene	ND		mg/kg	0.028	--	1
Fluoranthene	ND		mg/kg	0.028	--	1
Pyrene	ND		mg/kg	0.028	--	1
Benzo(a)anthracene	ND		mg/kg	0.028	--	1
Chrysene	ND		mg/kg	0.028	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.028	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.028	--	1
Benzo(a)pyrene	ND		mg/kg	0.028	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.028	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.028	--	1
Benzo(ghi)perylene	ND		mg/kg	0.028	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-05

Date Collected: 05/09/19 10:55

Client ID: B-02 (10-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	53		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	69		40-140
O-Terphenyl-MS	54		40-140

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-06

Date Collected: 05/09/19 11:45

Client ID: B-06 (12-13')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 15:20

Analyst: BAD

Percent Solids: 93%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um

## Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	ND		mg/kg	6.58	--	1
C9-C12 Aliphatics	ND		mg/kg	6.58	--	1
C9-C10 Aromatics	ND		mg/kg	6.58	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.58	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	6.58	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	137	Q	70-130
2,5-Dibromotoluene-FID	143	Q	70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-06

Date Collected: 05/09/19 11:45

Client ID: B-06 (12-13')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:21

Analytical Date: 05/19/19 14:11

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/18/19

Percent Solids: 93%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		mg/kg	6.85	--	1
C19-C36 Aliphatics	ND		mg/kg	6.85	--	1
C11-C22 Aromatics	ND		mg/kg	6.85	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.85	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	68		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-07

Date Collected: 05/09/19 12:25

Client ID: B-09 (9-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/17/19 12:34

Analyst: BAD

Percent Solids: 79%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	6.91	--	1
C9-C12 Aliphatics	ND		mg/kg	6.91	--	1
C9-C10 Aromatics	ND		mg/kg	6.91	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.91	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	6.91	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	97		70-130
2,5-Dibromotoluene-FID	101		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-07

Date Collected: 05/09/19 12:25

Client ID: B-09 (9-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 15:35

Analytical Date: 05/19/19 14:43

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/18/19

Percent Solids: 79%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		mg/kg	7.91	--	1
C19-C36 Aliphatics	18.7		mg/kg	7.91	--	1
C11-C22 Aromatics	43.0		mg/kg	7.91	--	1
C11-C22 Aromatics, Adjusted	34.1		mg/kg	7.91	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	56		40-140
2-Fluorobiphenyl	65		40-140
2-Bromonaphthalene	65		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-08

Date Collected: 05/09/19 09:05

Client ID: B-10 (11-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 15:51

Analyst: BAD

Percent Solids: 82%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Petroleum Hydrocarbons - Westborough Lab</b>						
C5-C8 Aliphatics	ND		mg/kg	7.26	--	1
C9-C12 Aliphatics	ND		mg/kg	7.26	--	1
C9-C10 Aromatics	ND		mg/kg	7.26	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	7.26	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	7.26	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	129		70-130
2,5-Dibromotoluene-FID	135	Q	70-130



**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-08

Date Collected: 05/09/19 09:05

Client ID: B-10 (11-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 15:35

Analytical Date: 05/20/19 05:43

M.S. Analytical Date: 05/20/19 14:14

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: DV

Cleanup Date1: 05/19/19

Percent Solids: 82%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
C9-C18 Aliphatics	ND		mg/kg	7.77	--	1
C19-C36 Aliphatics	ND		mg/kg	7.77	--	1
C11-C22 Aromatics	ND		mg/kg	7.77	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.77	--	1
Naphthalene	ND		mg/kg	0.031	--	1
2-Methylnaphthalene	ND		mg/kg	0.031	--	1
Acenaphthylene	ND		mg/kg	0.031	--	1
Acenaphthene	ND		mg/kg	0.031	--	1
Fluorene	ND		mg/kg	0.031	--	1
Phenanthrene	ND		mg/kg	0.031	--	1
Anthracene	ND		mg/kg	0.031	--	1
Fluoranthene	ND		mg/kg	0.031	--	1
Pyrene	ND		mg/kg	0.031	--	1
Benzo(a)anthracene	ND		mg/kg	0.031	--	1
Chrysene	ND		mg/kg	0.031	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.031	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.031	--	1
Benzo(a)pyrene	ND		mg/kg	0.031	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.031	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.031	--	1
Benzo(ghi)perylene	ND		mg/kg	0.031	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-08

Date Collected: 05/09/19 09:05

Client ID: B-10 (11-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	68		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	76		40-140
O-Terphenyl-MS	64		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-09

Date Collected: 05/06/19 00:00

Client ID: TRIP BLANK

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 16:22

Analyst: BAD

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Petroleum Hydrocarbons - Westborough Lab</b>						
C5-C8 Aliphatics	ND		mg/kg	5.00	--	1
C9-C12 Aliphatics	ND		mg/kg	5.00	--	1
C9-C10 Aromatics	ND		mg/kg	5.00	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	5.00	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	100		70-130
2,5-Dibromotoluene-FID	104		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-10

Date Collected: 05/09/19 11:30

Client ID: B-06 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 16:53

Analyst: BAD

Percent Solids: 89%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	6.96	--	1
C9-C12 Aliphatics	ND		mg/kg	6.96	--	1
C9-C10 Aromatics	ND		mg/kg	6.96	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.96	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	6.96	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	116		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-10

Date Collected: 05/09/19 11:30

Client ID: B-06 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:21

Analytical Date: 05/20/19 13:14

Cleanup Method1: EPH-04-1

Analyst: MEO

Cleanup Date1: 05/18/19

Percent Solids: 89%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		mg/kg	7.46	--	1
C19-C36 Aliphatics	66.4		mg/kg	7.46	--	1
C11-C22 Aromatics	83.8		mg/kg	7.46	--	1
C11-C22 Aromatics, Adjusted	70.8		mg/kg	7.46	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	84		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-11

Date Collected: 05/09/19 12:00

Client ID: SS-02 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 17:24

Analyst: BAD

Percent Solids: 97%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	4.60	--	1
C9-C12 Aliphatics	ND		mg/kg	4.60	--	1
C9-C10 Aromatics	ND		mg/kg	4.60	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	4.60	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	4.60	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	115		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-11

Date Collected: 05/09/19 12:00

Client ID: SS-02 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:18

Analytical Date: 05/20/19 06:15

M.S. Analytical Date: 05/20/19 14:40

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: DV

Cleanup Date1: 05/19/19

Percent Solids: 97%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	6.77	--	1
C19-C36 Aliphatics	60.1		mg/kg	6.77	--	1
C11-C22 Aromatics	16.2		mg/kg	6.77	--	1
C11-C22 Aromatics, Adjusted	16.0		mg/kg	6.77	--	1
Naphthalene	ND		mg/kg	0.027	--	1
2-Methylnaphthalene	ND		mg/kg	0.027	--	1
Acenaphthylene	ND		mg/kg	0.027	--	1
Acenaphthene	ND		mg/kg	0.027	--	1
Fluorene	ND		mg/kg	0.027	--	1
Phenanthrene	0.029		mg/kg	0.027	--	1
Anthracene	ND		mg/kg	0.027	--	1
Fluoranthene	0.063		mg/kg	0.027	--	1
Pyrene	0.050		mg/kg	0.027	--	1
Benzo(a)anthracene	ND		mg/kg	0.027	--	1
Chrysene	0.033		mg/kg	0.027	--	1
Benzo(b)fluoranthene	0.048		mg/kg	0.027	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.027	--	1
Benzo(a)pyrene	ND		mg/kg	0.027	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.027	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.027	--	1
Benzo(ghi)perylene	0.029		mg/kg	0.027	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-11

Date Collected: 05/09/19 12:00

Client ID: SS-02 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	60		40-140
2-Fluorobiphenyl	62		40-140
2-Bromonaphthalene	62		40-140
O-Terphenyl-MS	70		40-140



**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-12

Date Collected: 05/09/19 12:05

Client ID: SS-03 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 17:55

Analyst: BAD

Percent Solids: 95%

Trap: EST, Carboxen B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	6.12	--	1
C9-C12 Aliphatics	ND		mg/kg	6.12	--	1
C9-C10 Aromatics	ND		mg/kg	6.12	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.12	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	6.12	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	108		70-130
2,5-Dibromotoluene-FID	113		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-12

Date Collected: 05/09/19 12:05

Client ID: SS-03 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:18

Analytical Date: 05/20/19 06:47

M.S. Analytical Date: 05/20/19 15:06

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: DV

Cleanup Date1: 05/19/19

Percent Solids: 95%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	6.84	--	1
C19-C36 Aliphatics	210		mg/kg	6.84	--	1
C11-C22 Aromatics	71.6		mg/kg	6.84	--	1
C11-C22 Aromatics, Adjusted	68.1		mg/kg	6.84	--	1
Naphthalene	ND		mg/kg	0.027	--	1
2-Methylnaphthalene	ND		mg/kg	0.027	--	1
Acenaphthylene	ND		mg/kg	0.027	--	1
Acenaphthene	ND		mg/kg	0.027	--	1
Fluorene	ND		mg/kg	0.027	--	1
Phenanthrene	0.338		mg/kg	0.027	--	1
Anthracene	0.069		mg/kg	0.027	--	1
Fluoranthene	0.674		mg/kg	0.027	--	1
Pyrene	0.583		mg/kg	0.027	--	1
Benzo(a)anthracene	0.280		mg/kg	0.027	--	1
Chrysene	0.324		mg/kg	0.027	--	1
Benzo(b)fluoranthene	0.433		mg/kg	0.027	--	1
Benzo(k)fluoranthene	0.133		mg/kg	0.027	--	1
Benzo(a)pyrene	0.267		mg/kg	0.027	--	1
Indeno(1,2,3-cd)Pyrene	0.178		mg/kg	0.027	--	1
Dibenzo(a,h)anthracene	0.050		mg/kg	0.027	--	1
Benzo(ghi)perylene	0.202		mg/kg	0.027	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-12

Date Collected: 05/09/19 12:05

Client ID: SS-03 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	68		40-140
O-Terphenyl-MS	62		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-13

Date Collected: 05/09/19 12:15

Client ID: B-09 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 18:26

Analyst: BAD

Percent Solids: 85%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	6.79	--	1
C9-C12 Aliphatics	ND		mg/kg	6.79	--	1
C9-C10 Aromatics	ND		mg/kg	6.79	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.79	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	6.79	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	116		70-130
2,5-Dibromotoluene-FID	121		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-13

Date Collected: 05/09/19 12:15

Client ID: B-09 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 15:35

Analytical Date: 05/19/19 15:15

Cleanup Method1: EPH-04-1

Analyst: LL

Cleanup Date1: 05/18/19

Percent Solids: 85%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

C9-C18 Aliphatics	ND		mg/kg	7.48	--	1
C19-C36 Aliphatics	ND		mg/kg	7.48	--	1
C11-C22 Aromatics	ND		mg/kg	7.48	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.48	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	69		40-140

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-14

Date Collected: 05/09/19 12:10

Client ID: B-05 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 18:57

Analyst: BAD

Percent Solids: 98%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	7.49	--	1
C9-C12 Aliphatics	ND		mg/kg	7.49	--	1
C9-C10 Aromatics	ND		mg/kg	7.49	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	7.49	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	7.49	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	106		70-130
2,5-Dibromotoluene-FID	110		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-14 D  
 Client ID: B-05 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:10  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 05/21/19 09:19  
 Analyst: DG  
 Percent Solids: 98%

M.S. Analytical Date: 05/20/19 15:57  
 M.S. Analyst: DV

Extraction Method: EPA 3546  
 Extraction Date: 05/17/19 13:18  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 05/19/19

**Quality Control Information**

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	123		mg/kg	33.4	--	5
C19-C36 Aliphatics	4160		mg/kg	33.4	--	5
C11-C22 Aromatics	308		mg/kg	33.4	--	5
C11-C22 Aromatics, Adjusted	307		mg/kg	33.4	--	5
Naphthalene	ND		mg/kg	0.027	--	1
2-Methylnaphthalene	ND		mg/kg	0.027	--	1
Acenaphthylene	ND		mg/kg	0.027	--	1
Acenaphthene	ND		mg/kg	0.027	--	1
Fluorene	ND		mg/kg	0.027	--	1
Phenanthrene	0.083		mg/kg	0.027	--	1
Anthracene	ND		mg/kg	0.027	--	1
Fluoranthene	0.195		mg/kg	0.027	--	1
Pyrene	0.162		mg/kg	0.027	--	1
Benzo(a)anthracene	0.055		mg/kg	0.027	--	1
Chrysene	0.086		mg/kg	0.027	--	1
Benzo(b)fluoranthene	0.139		mg/kg	0.027	--	1
Benzo(k)fluoranthene	0.044		mg/kg	0.027	--	1
Benzo(a)pyrene	0.064		mg/kg	0.027	--	1
Indeno(1,2,3-cd)Pyrene	0.060		mg/kg	0.027	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.027	--	1
Benzo(ghi)perylene	0.075		mg/kg	0.027	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-14 D

Date Collected: 05/09/19 12:10

Client ID: B-05 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	46		40-140
2-Fluorobiphenyl	64		40-140
2-Bromonaphthalene	62		40-140
O-Terphenyl-MS	44		40-140



**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 05/16/19 19:28

Analyst: BAD

Percent Solids: 82%

Trap: EST, Carbo-pack B/Carboxen 1000&amp;1001

Analytical Column: Restek, RTX-502.2,  
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons - Westborough Lab**

C5-C8 Aliphatics	ND		mg/kg	7.02	--	1
C9-C12 Aliphatics	ND		mg/kg	7.02	--	1
C9-C10 Aromatics	ND		mg/kg	7.02	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	7.02	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	7.02	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	123		70-130
2,5-Dibromotoluene-FID	129		70-130

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 05/17/19 13:18

Analytical Date: 05/20/19 07:51

M.S. Analytical Date: 05/20/19 16:22

Cleanup Method1: EPH-04-1

Analyst: DG

M.S. Analyst: DV

Cleanup Date1: 05/19/19

Percent Solids: 82%

**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>EPH w/MS Targets - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	7.94	--	1
C19-C36 Aliphatics	ND		mg/kg	7.94	--	1
C11-C22 Aromatics	ND		mg/kg	7.94	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.94	--	1
Naphthalene	ND		mg/kg	0.032	--	1
2-Methylnaphthalene	ND		mg/kg	0.032	--	1
Acenaphthylene	ND		mg/kg	0.032	--	1
Acenaphthene	ND		mg/kg	0.032	--	1
Fluorene	ND		mg/kg	0.032	--	1
Phenanthrene	ND		mg/kg	0.032	--	1
Anthracene	ND		mg/kg	0.032	--	1
Fluoranthene	ND		mg/kg	0.032	--	1
Pyrene	ND		mg/kg	0.032	--	1
Benzo(a)anthracene	ND		mg/kg	0.032	--	1
Chrysene	ND		mg/kg	0.032	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.032	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.032	--	1
Benzo(a)pyrene	ND		mg/kg	0.032	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.032	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.032	--	1
Benzo(ghi)perylene	ND		mg/kg	0.032	--	1

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**EPH w/MS Targets - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	56		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	71		40-140
O-Terphenyl-MS	56		40-140

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 05/19/19 12:29  
Analyst: LL

Extraction Method: EPA 3546  
Extraction Date: 05/17/19 10:08  
Cleanup Method: EPH-04-1  
Cleanup Date: 05/18/19

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01,03,06-07,10,13 Batch: WG1238322-1					
C9-C18 Aliphatics	ND		mg/kg	6.56	--
C19-C36 Aliphatics	ND		mg/kg	6.56	--
C11-C22 Aromatics	ND		mg/kg	6.56	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.56	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	48		40-140
2-Fluorobiphenyl	61		40-140
2-Bromonaphthalene	61		40-140

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 131, VPH-18-2.1  
Analytical Date: 05/16/19 12:14  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-06,08-15 Batch: WG1238365-4					
C5-C8 Aliphatics	ND		mg/kg	5.00	--
C9-C12 Aliphatics	ND		mg/kg	5.00	--
C9-C10 Aromatics	ND		mg/kg	5.00	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	5.00	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	119		70-130
2,5-Dibromotoluene-FID	124		70-130

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 05/20/19 04:38  
Analyst: DG

M.S. Analytical Date: 05/20/19 12:09  
M.S. Analyst: DV

Extraction Method: EPA 3546  
Extraction Date: 05/17/19 13:18  
Cleanup Method: EPH-04-1  
Cleanup Date: 05/19/19

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 04-05,08,11-12,14-15 Batch: WG1238402-1					
C9-C18 Aliphatics	ND		mg/kg	6.29	--
C19-C36 Aliphatics	ND		mg/kg	6.29	--
C11-C22 Aromatics	ND		mg/kg	6.29	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.29	--
Naphthalene	ND		mg/kg	0.025	--
2-Methylnaphthalene	ND		mg/kg	0.025	--
Acenaphthylene	ND		mg/kg	0.025	--
Acenaphthene	ND		mg/kg	0.025	--
Fluorene	ND		mg/kg	0.025	--
Phenanthrene	ND		mg/kg	0.025	--
Anthracene	ND		mg/kg	0.025	--
Fluoranthene	ND		mg/kg	0.025	--
Pyrene	ND		mg/kg	0.025	--
Benzo(a)anthracene	ND		mg/kg	0.025	--
Chrysene	ND		mg/kg	0.025	--
Benzo(b)fluoranthene	ND		mg/kg	0.025	--
Benzo(k)fluoranthene	ND		mg/kg	0.025	--
Benzo(a)pyrene	ND		mg/kg	0.025	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.025	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.025	--
Benzo(ghi)perylene	ND		mg/kg	0.025	--

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 05/20/19 04:38  
Analyst: DG

05/20/19 12:09  
DV

Extraction Method: EPA 3546  
Extraction Date: 05/17/19 13:18  
Cleanup Method: EPH-04-1  
Cleanup Date: 05/19/19

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 04-05,08,11-12,14-15 Batch: WG1238402-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	71		40-140
O-Terphenyl-MS	62		40-140

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 131,VPH-18-2.1  
Analytical Date: 05/17/19 08:59  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 07 Batch: WG1238422-4					
C5-C8 Aliphatics	ND		mg/kg	5.00	--
C9-C12 Aliphatics	ND		mg/kg	5.00	--
C9-C10 Aromatics	ND		mg/kg	5.00	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	5.00	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	118		70-130
2,5-Dibromotoluene-FID	122		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01,03,06-07,10,13 Batch: WG1238322-2 WG1238322-3								
C9-C18 Aliphatics	55		56		40-140	2		25
C19-C36 Aliphatics	60		65		40-140	8		25
C11-C22 Aromatics	53		55		40-140	4		25
Naphthalene	41		39	Q	40-140	5		25
2-Methylnaphthalene	40		39	Q	40-140	3		25
Acenaphthylene	43		43		40-140	0		25
Acenaphthene	45		44		40-140	2		25
Fluorene	47		47		40-140	0		25
Phenanthrene	49		54		40-140	10		25
Anthracene	52		52		40-140	0		25
Fluoranthene	50		52		40-140	4		25
Pyrene	51		55		40-140	8		25
Benzo(a)anthracene	49		52		40-140	6		25
Chrysene	50		53		40-140	6		25
Benzo(b)fluoranthene	51		53		40-140	4		25
Benzo(k)fluoranthene	50		53		40-140	6		25
Benzo(a)pyrene	48		51		40-140	6		25
Indeno(1,2,3-cd)Pyrene	49		52		40-140	6		25
Dibenzo(a,h)anthracene	49		53		40-140	8		25
Benzo(ghi)perylene	46		49		40-140	6		25
Nonane (C9)	47		46		30-140	2		25
Decane (C10)	51		51		40-140	0		25
Dodecane (C12)	51		52		40-140	2		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01,03,06-07,10,13 Batch: WG1238322-2 WG1238322-3								
Tetradecane (C14)	52		53		40-140	2		25
Hexadecane (C16)	54		57		40-140	5		25
Octadecane (C18)	56		60		40-140	7		25
Nonadecane (C19)	56		60		40-140	7		25
Eicosane (C20)	58		62		40-140	7		25
Docosane (C22)	59		63		40-140	7		25
Tetracosane (C24)	58		62		40-140	7		25
Hexacosane (C26)	58		62		40-140	7		25
Octacosane (C28)	58		62		40-140	7		25
Triacontane (C30)	57		62		40-140	8		25
Hexatriacontane (C36)	59		63		40-140	7		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	53		56		40-140
o-Terphenyl	49		51		40-140
2-Fluorobiphenyl	64		62		40-140
2-Bromonaphthalene	64		62		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		



## Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-06,08-15 Batch: WG1238365-2 WG1238365-3									
C5-C8 Aliphatics	96		100		70-130		4		25
C9-C12 Aliphatics	101		104		70-130		3		25
C9-C10 Aromatics	98		102		70-130		4		25
Benzene	97		102		70-130		5		25
Toluene	98		103		70-130		5		25
Ethylbenzene	100		105		70-130		5		25
p/m-Xylene	101		106		70-130		5		25
o-Xylene	97		102		70-130		5		25
Methyl tert butyl ether	102		109		70-130		7		25
Naphthalene	98		104		70-130		6		25
1,2,4-Trimethylbenzene	98		103		70-130		5		25
Pentane	91		95		70-130		4		25
2-Methylpentane	99		103		70-130		4		25
2,2,4-Trimethylpentane	98		101		70-130		3		25
n-Nonane	102		106		30-130		4		25
n-Decane	95		99		70-130		4		25
n-Butylcyclohexane	105		109		70-130		4		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2,5-Dibromotoluene-PID	94		99		70-130
2,5-Dibromotoluene-FID	97		103		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 04-05,08,11-12,14-15 Batch: WG1238402-2 WG1238402-3								
C9-C18 Aliphatics	64		67		40-140	5		25
C19-C36 Aliphatics	73		73		40-140	0		25
C11-C22 Aromatics	66		72		40-140	9		25
Naphthalene	72		76		40-140	5		25
2-Methylnaphthalene	73		75		40-140	3		25
Acenaphthylene	84		87		40-140	4		25
Acenaphthene	79		82		40-140	4		25
Fluorene	82		85		40-140	4		25
Phenanthrene	76		79		40-140	4		25
Anthracene	83		87		40-140	5		25
Fluoranthene	88		90		40-140	2		25
Pyrene	92		95		40-140	3		25
Benzo(a)anthracene	83		84		40-140	1		25
Chrysene	78		82		40-140	5		25
Benzo(b)fluoranthene	79		84		40-140	6		25
Benzo(k)fluoranthene	78		81		40-140	4		25
Benzo(a)pyrene	80		82		40-140	2		25
Indeno(1,2,3-cd)Pyrene	84		88		40-140	5		25
Dibenzo(a,h)anthracene	84		91		40-140	8		25
Benzo(ghi)perylene	76		84		40-140	10		25
Nonane (C9)	53		60		30-140	12		25
Decane (C10)	58		64		40-140	10		25
Dodecane (C12)	60		64		40-140	6		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 04-05,08,11-12,14-15 Batch: WG1238402-2 WG1238402-3								
Tetradecane (C14)	61		64		40-140	5		25
Hexadecane (C16)	64		66		40-140	3		25
Octadecane (C18)	68		69		40-140	1		25
Nonadecane (C19)	68		69		40-140	1		25
Eicosane (C20)	71		70		40-140	1		25
Docosane (C22)	72		71		40-140	1		25
Tetracosane (C24)	71		70		40-140	1		25
Hexacosane (C26)	71		70		40-140	1		25
Octacosane (C28)	71		70		40-140	1		25
Triacontane (C30)	70		70		40-140	0		25
Hexatriacontane (C36)	73		72		40-140	1		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	64		63		40-140
o-Terphenyl	53		57		40-140
2-Fluorobiphenyl	64		67		40-140
2-Bromonaphthalene	65		67		40-140
O-Terphenyl-MS	72		75		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		



## Lab Control Sample Analysis Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 07 Batch: WG1238422-2 WG1238422-3								
C5-C8 Aliphatics	96		97		70-130	0		25
C9-C12 Aliphatics	100		100		70-130	0		25
C9-C10 Aromatics	98		98		70-130	0		25
Benzene	99		99		70-130	0		25
Toluene	100		100		70-130	0		25
Ethylbenzene	102		102		70-130	0		25
p/m-Xylene	102		102		70-130	0		25
o-Xylene	98		98		70-130	0		25
Methyl tert butyl ether	101		103		70-130	2		25
Naphthalene	96		97		70-130	1		25
1,2,4-Trimethylbenzene	98		98		70-130	0		25
Pentane	92		91		70-130	2		25
2-Methylpentane	100		99		70-130	1		25
2,2,4-Trimethylpentane	98		99		70-130	1		25
n-Nonane	100		102		30-130	2		25
n-Decane	95		95		70-130	0		25
n-Butylcyclohexane	104		104		70-130	0		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2,5-Dibromotoluene-PID	93		92		70-130
2,5-Dibromotoluene-FID	96		95		70-130

## METALS

**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-01

Date Collected: 05/09/19 10:00

Client ID: B-03 (3-4')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 45%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	65.0		mg/kg	4.20	--	1	05/21/19 19:00	05/22/19 16:46	EPA 3050B	1,6010D	AB





**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-02

Date Collected: 05/09/19 09:48

Client ID: B-12 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	186		mg/kg	2.21	--	1	05/21/19 19:00	05/22/19 17:52	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-03

Date Collected: 05/09/19 11:45

Client ID: B-13 (12-13')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	6.36		mg/kg	2.12	--	1	05/21/19 19:00	05/22/19 20:24	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-04

Date Collected: 05/09/19 12:50

Client ID: B-04 (8-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	77.8		mg/kg	2.17	--	1	05/21/19 19:00	05/22/19 20:29	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-05

Date Collected: 05/09/19 10:55

Client ID: B-02 (10-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	3.51		mg/kg	2.02	--	1	05/21/19 19:00	05/22/19 20:34	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-06

Date Collected: 05/09/19 11:45

Client ID: B-06 (12-13')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	5.43		mg/kg	2.12	--	1	05/21/19 19:00	05/22/19 21:20	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-07

Date Collected: 05/09/19 12:25

Client ID: B-09 (9-10')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	164		mg/kg	2.50	--	1	05/21/19 19:00	05/22/19 21:24	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-08

Date Collected: 05/09/19 09:05

Client ID: B-10 (11-12')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	6.70		mg/kg	2.37	--	1	05/21/19 19:00	05/22/19 21:29	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-10

Date Collected: 05/09/19 11:30

Client ID: B-06 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	167		mg/kg	2.18	--	1	05/21/19 19:00	05/22/19 21:34	EPA 3050B	1,6010D	AB





**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-11

Date Collected: 05/09/19 12:00

Client ID: SS-02 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	8.47		mg/kg	2.00	--	1	05/21/19 19:00	05/22/19 21:39	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-12  
 Client ID: SS-03 (0-2')  
 Sample Location: BREWER, ME

Date Collected: 05/09/19 12:05  
 Date Received: 05/13/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	218		mg/kg	2.06	--	1	05/21/19 19:00	05/22/19 21:43	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE

**Lab Number:** L1919966

**Project Number:** BE-173

**Report Date:** 05/23/19

**SAMPLE RESULTS**

Lab ID: L1919966-13

Date Collected: 05/09/19 12:15

Client ID: B-09 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	6.68		mg/kg	2.24	--	1	05/21/19 19:00	05/22/19 21:48	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-14

Date Collected: 05/09/19 12:10

Client ID: B-05 (0-2')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	23.2		mg/kg	1.92	--	1	05/21/19 19:00	05/22/19 21:53	EPA 3050B	1,6010D	AB



**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**SAMPLE RESULTS**

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	9.61		mg/kg	2.41	--	1	05/21/19 19:00	05/22/19 21:58	EPA 3050B	1,6010D	AB



Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08,10-15 Batch: WG1239585-1									
Lead, Total	ND	mg/kg	2.00	--	1	05/21/19 19:00	05/22/19 16:18	1,6010D	AB

### Prep Information

Digestion Method: EPA 3050B

## Lab Control Sample Analysis

Batch Quality Control

Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-15 Batch: WG1239585-2 SRM Lot Number: D101-540								
Lead, Total	103		-		83-117	-		

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>MSD Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>MSD Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Qual</b>	<b>RPD Limits</b>
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-15 QC Batch ID: WG1239585-3 QC Sample: L1919966-01 Client ID: B-03 (3-4')												
Lead, Total	65.0	87.1	153	101	-	-	-	-	75-125	-	-	20



**Lab Duplicate Analysis**  
*Batch Quality Control*

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-15 QC Batch ID: WG1239585-4 QC Sample: L1919966-01 Client ID: B-03 (3-4')						
Lead, Total	65.0	90.0	mg/kg	32	Q	20

# **INORGANICS & MISCELLANEOUS**

Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-01

Client ID: B-03 (3-4')

Sample Location: BREWER, ME

Date Collected: 05/09/19 10:00

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	45.2		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-02

Client ID: B-12 (0-2')

Sample Location: BREWER, ME

Date Collected: 05/09/19 09:48

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-03

Client ID: B-13 (12-13')

Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-04

Client ID: B-04 (8-10')

Sample Location: BREWER, ME

Date Collected: 05/09/19 12:50

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-05

Client ID: B-02 (10-12')

Sample Location: BREWER, ME

Date Collected: 05/09/19 10:55

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-06

Client ID: B-06 (12-13')

Sample Location: BREWER, ME

Date Collected: 05/09/19 11:45

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA





Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-07

Client ID: B-09 (9-10')

Sample Location: BREWER, ME

Date Collected: 05/09/19 12:25

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-08

Client ID: B-10 (11-12')

Sample Location: BREWER, ME

Date Collected: 05/09/19 09:05

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-10

Client ID: B-06 (0-2')

Sample Location: BREWER, ME

Date Collected: 05/09/19 11:30

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-11

Client ID: SS-02 (0-2')

Sample Location: BREWER, ME

Date Collected: 05/09/19 12:00

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.1		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-12

Client ID: SS-03 (0-2')

Sample Location: BREWER, ME

Date Collected: 05/09/19 12:05

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-13

Client ID: B-09 (0-2')

Sample Location: BREWER, ME

Date Collected: 05/09/19 12:15

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Project Number: BE-173

Lab Number: L1919966

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-14

Client ID: B-05 (0-2')

Sample Location: BREWER, ME

Date Collected: 05/09/19 12:10

Date Received: 05/13/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.9		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA



Project Name: GETCHELL ICE

Lab Number: L1919966

Project Number: BE-173

Report Date: 05/23/19

## SAMPLE RESULTS

Lab ID: L1919966-15

Date Collected: 05/09/19 13:20

Client ID: B-11 (6-8')

Date Received: 05/13/19

Sample Location: BREWER, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	05/14/19 02:26	121,2540G	YA





**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919966-01A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-01B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-01C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-01D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-01F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		EPH-10(14),8270TCL-SIM(14)
L1919966-02A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-02B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-02C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-02D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-02F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-03A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-03B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-03C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-03D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-03E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-03F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		EPH-10(14),8270TCL-SIM(14)
L1919966-04A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),8260H(14),VPH-18(28)
L1919966-04B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14),8260H(14)
L1919966-04C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14),8260H(14)
L1919966-04D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919966-04F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)
L1919966-05A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-05B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-05C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-05D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)
L1919966-06A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-06B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-06C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-06D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-06F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		EPH-10(14),8270TCL-SIM(14)
L1919966-07A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-07B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-07C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-07D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-07F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		EPH-10(14),8270TCL-SIM(14)
L1919966-07G	Vial MeOH preserved split	A	NA		2.5	Y	Absent		8260HLW(14)
L1919966-08A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-08B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-08C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-08D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-08F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)
L1919966-09A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),8260H(14),VPH-18(28)
L1919966-09B	Vial water preserved	A	NA		2.5	Y	Absent	<b>09-MAY-19 18:00</b>	8260HLW(14),8260H(14)

**Project Name:** GETCHELL ICE**Lab Number:** L1919966**Project Number:** BE-173**Report Date:** 05/23/19**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919966-10A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-10B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-10C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-10D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-10F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		EPH-10(14),8270TCL-SIM(14)
L1919966-11A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-11B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-11C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-11D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-11E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-11F	Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)
L1919966-12A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-12B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-12C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-12D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-12E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-12F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)
L1919966-13A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-13B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-13C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-13D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-13E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-13F	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		EPH-10(14),8270TCL-SIM(14)
L1919966-14A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),VPH-18(28)
L1919966-14B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-14C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14)
L1919966-14D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Serial\_No:**05231916:56  
**Lab Number:** L1919966  
**Report Date:** 05/23/19

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1919966-14E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-14F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)
L1919966-15A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14),8260H(14),VPH-18(28)
L1919966-15B	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14),8260H(14)
L1919966-15C	Vial water preserved	A	NA		2.5	Y	Absent	09-MAY-19 18:00	8260HLW(14),8260H(14)
L1919966-15D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		ME-TS-2540(7)
L1919966-15E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1919966-15F	Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		EPH-MS-10(14),EPHD-GC-10(14)

**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

Report Format: Data Usability Report



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: Data Usability Report



**Project Name:** GETCHELL ICE  
**Project Number:** BE-173

**Lab Number:** L1919966  
**Report Date:** 05/23/19

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 131 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, February 2018, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, June 1, 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

**EPA 6860:** SCM: Perchlorate

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

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The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





# CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 5/13/19

ALPHA Job #: L1919966

8 Walkup Drive  
Westboro, MA 01581  
Tel: 508-898-9220

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

### Project Information

Project Name: GETCHELL ICE

Project Location: Brewer, ME

Project #: BE-173

Project Manager: CRESSEY

ALPHA Quote #: 9004

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due:

### Report Information - Data Deliverables

ADEx  EMAIL

### Billing Information

Same as Client info PO #: BE-173

### Client Information

Client: BEACON ENVIRONMENTAL

Address: PO Box 2154

WINDHAM, ME 04092

Phone: (207) 376-5000

Email: JCRESSEY@BEACONMAINE.COM

### Additional Project Information:

H2O PRESERVED VIALS FROZEN @ 1800

### Regulatory Requirements & Project Information Requirements

- Yes  No - MA MCP Analytical Methods  Yes  No - CT RCP Analytical Methods
- Yes  No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- Yes  No GW1 Standards (Info Required for Metals & EPH with Targets)
- Yes  No NPDES RGP
- Other State /Fed Program \_\_\_\_\_ Criteria \_\_\_\_\_

ANALYSIS	VOC: <input checked="" type="checkbox"/> 8280 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input checked="" type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPT3	EPH: <input type="checkbox"/> Ranges & Targets <input checked="" type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input checked="" type="checkbox"/> Ranges Only	<input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	TOTAL Pb	EPH (RANGES & TARGETS)	TOTAL # BOTTLES
	SAMPLE INFO										
Filtration											
<input type="checkbox"/> Field <input type="checkbox"/> Lab to do											
Preservation											
<input type="checkbox"/> Lab to do											
Sample Comments											

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS										Sample Comments	TOTAL # BOTTLES	
		Date	Time			VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	TOTAL Pb	EPH (RANGES & TARGETS)			
19966-01	B-03 (3-4')	5/9	1000	S	JKC	X	X			X	X			X				6
-02	B-12 (0-2')	5/9	948	S	JKC	X					X			X				6
-03	B-13 (12-13')	5/9	1145	S	JKC	X	X			X	X			X				6
-04	B-04 (8-10')	5/9	1250	S	JKC	X	<del>X</del>				X			X	X			6
-05	B-02 (10-12')	5/9	1055	S	JKC	X					X			X	X			6
-06	B-06 (12-13')	5/9	1145	S	JKC	X	X			X	X			X				6
-07	B-09 (9-10')	5/9	1225	S	JKC	X	X			X	X			X				6
-08	B-10 (11-12')	5/9	905	S	JKC	X					X			X	X			6
-09	TRIP BLANK	5/6		S	PC	X					X							2
-10	B-06 (0-2')	5/9	1130	S	JKC	X	X			X	X			X				6

- Container Type**  
P= Plastic  
A= Amber glass  
V= Vial  
G= Glass  
B= Bacteria cup  
C= Cube  
O= Other  
E= Encore  
D= BOD Bottle
- Preservative**  
A= None  
B= HCl  
C= HNO<sub>3</sub>  
D= H<sub>2</sub>SO<sub>4</sub>  
E= NaOH  
F= MeOH  
G= NaHSO<sub>4</sub>  
H= Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
I= Ascorbic Acid  
J= NH<sub>4</sub>Cl  
K= Zn Acetate  
O= Other

Container Type	V	A		A	V		A	A
Preservative	F	A		A	F		A	A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>JKC</u>	<u>5/13 800</u>	<u>Rob Mauro</u>	<u>5/13/19 1710</u>
<u>Rob Mauro</u>	<u>5/13/19 2019</u>	<u>AAL</u>	<u>5/13/19 2019</u>

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.  
FORM NO: 01-01 (rev. 12-Mar-2012)







**Atlantic Environmental Contractors, Inc.**

81 East Avenue • Lewiston, ME 04240

Phone: 207-783-1908 • Fax: 207-376-3237

Web: [www.aecne.net](http://www.aecne.net)

## Asbestos Demolition Impact Survey Report

1 Union St.  
Brewer, Maine 04412

Prepared for:  
Beacon Environmental Consultants, LLC  
c/o John Cressey

Prepared by:

A handwritten signature in blue ink, appearing to read "Frank Perry", is written over a horizontal line.

Frank Perry

Asbestos Inspector # AI-0628 exp. 1/31/2020

Atlantic Environmental Contractors, Inc.

81 East Ave.

Lewiston, Me.

Report date:  
May 11, 2019  
AEC Project #AEC2071





**Atlantic Environmental Contractors, Inc.**

81 East Avenue • Lewiston, ME 04240

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Web: [www.aecne.net](http://www.aecne.net)

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- 2. Scope of Work**
- 3. Methods and Sampling Strategy**
- 4. Asbestos Sample Results**

**APPENDICES**

- 1. Laboratory Analytical Results and Chain of Custody**
- 2. State of Maine Inspector License**



## **Atlantic Environmental Contractors, Inc.**

81 East Avenue • Lewiston, ME 04240  
Phone: 207-783-1908 • Fax: 207-376-3237  
Web: [www.aecne.net](http://www.aecne.net)

### **1. Executive Summary**

The following asbestos demolition impact survey was conducted on June 6<sup>th</sup>, 2019 by Frank Perry; a State of Maine licensed and certified Asbestos Inspector. The structures surveyed were a 2 level office building, cold storage building and an ice production facility and 1 small out building (shed).

Prior to commencement of the survey representatives of Atlantic Environmental Contractors, Inc. (AEC) conducted a visual inspection of the interior of the building and developed a site-specific sampling strategy in compliance with the Maine DEP Chapter 425 Regulations.

### **2. Scope Of Work**

The scope of the survey was to identify building materials that potentially contain regulated levels of asbestos prior to demolition of the structure. Materials with greater than 1% asbestos content are considered regulated asbestos containing building materials.

### **3. Methods and Sampling Strategy**

There are typically three types of suspect materials that must be sampled as part of a Demolition/Renovation Impact Survey:

- **Surfacing materials; sprayed or applied by trowel and include fireproofing materials and various plasters. At least three bulk samples of surfacing materials are to be collected from each homogeneous area that was less than 1,000-square feet. Five bulk samples were collected for areas 1,000 to 5,000-square feet and seven bulk samples were collected for areas greater than 5,000-square feet**
- **Thermal system insulation; including boiler cover, pipe cover, and duct insulation if found are to be assessed. The materials are either assumed to be asbestos containing or will be sampled as follows; At least three bulk samples of thermal system insulation from each homogenous area or at least one bulk sample from each homogeneous patched area if the section is less than six linear or square feet**
- **Miscellaneous ACM; includes a variety of ceiling tiles, floor tiles, and gypsum board. Sample quantities for miscellaneous ACM follow the same requirements as for the two previously mentioned ACM types.**

The bulk samples were collected with standard sampling protocols, properly packaged and shipped to EMSL Analytical Laboratory South Portland, Maine for analysis by Polarized Light Microscopy (PLM) EPA method 600/R-93/116 and PLM NOB.





**Atlantic Environmental Contractors, Inc.**

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 Web: www.aecne.net

Getchell Bros.

**4. Asbestos Sample Results**

Eleven (11) sample groups were collected of the suspect building materials. The bulk sample analytical results indicate that there are regulated asbestos containing materials that will be impacted by the renovation activities. The sample locations type of materials and analytical results are detailed below.

**Getchell Bros. 1 Union St. Brewer, Maine**

Sample #	Location	Description	Asbestos Content
B1A-C	Office Bldg. Basement Ceiling	CT2X2	ND
B2A-C	Office Bldg. 1 <sup>st</sup> Floor Closets Floors	FT 9X9 Green	4.4% Chrysotile
B3A-C	Office Bldg. Ext. Rear Door Awning Roof	Asphalt Roofing Shingles	ND
B4A-C	Office Bldg. Roof Chimney	Chimney Sealant	21.3% Chrysotile
B5A-C	Office Bldg. Roof	Roofing Material	ND
B6A-C	Production Plant Office Floor	Floor Tile and Associated Mastic	ND
B7A-C	Production Plant Office Bathroom Floor	Floor Tile 12X12 Black	ND
B8A-C	Production Plant back parts storage area crawl space	Cork Insulation Black Mastic	8.0% Chrysotile
B8A-C	Production Plant back parts storage area crawl space	Cork Insulation	10.7% Chrysotile
B9A-G	Production Plant Exterior siding and under wood siding	Asphalt siding shingles	ND
B10A-C	Small Shed behind production plant Roof	Asphalt roofing	1.2% Chrysotile
B11A-C	Small Shed behind production plant siding	Asphalt Siding	ND



**Atlantic Environmental Contractors, Inc.**

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**Note: ND= None Detected (No asbestos content)**

**\*Storage facility did not contain any suspect materials to be tested. The production plant roof was checked and no suspect material was found in areas that could be accessed.**

**Should inaccessible materials be discovered during the demolition activities they should be assumed positive for asbestos content or sampled by a Licensed Asbestos Inspector prior to AEC recommends that the identified asbestos containing materials be removed by a State of Maine DEP licensed asbestos abatement contractor utilizing properly trained and certified personnel.**

**We appreciate the opportunity to assist you with this project, should you have any questions or comments please contact us at (207) 783-1908.**

**Very Truly,**

**Frank Perry  
Asbestos Inspector  
(AI-0628) Exp. 1/31/2020**





**Atlantic Environmental Contractors, Inc.**

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Phone: 207-783-1908 • Fax: 207-376-3237

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## **ANALYTICAL RESULTS**





# EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106  
Phone/Fax: (207) 517-6921 / (207) 517-6922  
<http://www.EMSL.com> / [portlandlab@emsl.com](mailto:portlandlab@emsl.com)

EMSL Order ID: 621900823  
Customer ID: ATLN34  
Customer PO: Getchell Bros.  
Project ID:

**Attn:** Frank Perry  
Atlantic Environmental Contractors, Inc.  
81 East Avenue Rear  
Lewiston, ME 04240

**Phone:** (207) 783-1908  
**Fax:** (207) 376-3237  
**Collected:** 6/ 6/2019  
**Received:** 6/07/2019  
**Analyzed:** 6/10/2019

**Proj:**

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** B1A **Lab Sample ID:** 621900823-0001  
**Sample Description:** Office Bldg Basement 2 x 2 CT/CT 2 x 2

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/07/2019	Gray	95.0%	5.0%	None Detected	

**Client Sample ID:** B1B **Lab Sample ID:** 621900823-0002  
**Sample Description:** Office Bldg Basement 2 x 2 CT/CT 2 x 2

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/07/2019	Gray	95.0%	5.0%	None Detected	

**Client Sample ID:** B1C **Lab Sample ID:** 621900823-0003  
**Sample Description:** Office Bldg Basement 2 x 2 CT/CT 2 x 2

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/10/2019	Gray	95.0%	5.0%	None Detected	

**Client Sample ID:** B2A **Lab Sample ID:** 621900823-0004  
**Sample Description:** Office Bldg Closets Floor/9x 9 FT Green

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Green	0.0%	95.6%	4.4% Chrysotile	

**Client Sample ID:** B2B **Lab Sample ID:** 621900823-0005  
**Sample Description:** Office Bldg Closets Floor/9x 9 FT Green

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B2C **Lab Sample ID:** 621900823-0006  
**Sample Description:** Office Bldg Closets Floor/9x 9 FT Green

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B3A **Lab Sample ID:** 621900823-0007  
**Sample Description:** Office Bldg Ext. Rear Door Awning Roof/Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	100%	None Detected	



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EMSL Order ID: 621900823  
Customer ID: ATLN34  
Customer PO: Getchell Bros.  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** B3B **Lab Sample ID:** 621900823-0008  
**Sample Description:** Office Bldg Ext. Rear Door Awning Roof/Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	100%	None Detected	

**Client Sample ID:** B3C **Lab Sample ID:** 621900823-0009  
**Sample Description:** Office Bldg Ext. Rear Door Awning Roof/Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	100%	None Detected	

**Client Sample ID:** B4A **Lab Sample ID:** 621900823-0010  
**Sample Description:** Office Bldg Chimney Sealant Roof/Sealant Chimney

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	78.7%	21.3% Chrysotile	

**Client Sample ID:** B4B **Lab Sample ID:** 621900823-0011  
**Sample Description:** Office Bldg Chimney Sealant Roof/Sealant Chimney

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B4C **Lab Sample ID:** 621900823-0012  
**Sample Description:** Office Bldg Chimney Sealant Roof/Sealant Chimney

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B5A **Lab Sample ID:** 621900823-0013  
**Sample Description:** Office Bldg Roofing/Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	5.2%	94.8%	None Detected	

**Client Sample ID:** B5B **Lab Sample ID:** 621900823-0014  
**Sample Description:** Office Bldg Roofing/Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	8.2%	91.8%	None Detected	

**Client Sample ID:** B5C **Lab Sample ID:** 621900823-0015  
**Sample Description:** Office Bldg Roofing/Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	5.0%	95.0%	None Detected	





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EMSL Order ID: 621900823  
Customer ID: ATLN34  
Customer PO: Getchell Bros.  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** B6A-Floor Tile **Lab Sample ID:** 621900823-0016

**Sample Description:** Prod. Plant Office Floor/12 x 12 FT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Blue	0.0%	100%	None Detected	

**Client Sample ID:** B6A-Mastic **Lab Sample ID:** 621900823-0016A

**Sample Description:** Prod. Plant Office Floor/12 x 12 FT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Yellow	0.0%	100%	None Detected	

**Client Sample ID:** B6B-Floor Tile **Lab Sample ID:** 621900823-0017

**Sample Description:** Prod. Plant Office Floor/12 x 12 FT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Blue	0.0%	100%	None Detected	

**Client Sample ID:** B6B-Mastic **Lab Sample ID:** 621900823-0017A

**Sample Description:** Prod. Plant Office Floor/12 x 12 FT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Yellow	0.0%	100%	None Detected	

**Client Sample ID:** B6C-Floor Tile **Lab Sample ID:** 621900823-0018

**Sample Description:** Prod. Plant Office Floor/12 x 12 FT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Blue	0.0%	100%	None Detected	

**Client Sample ID:** B6C-Mastic **Lab Sample ID:** 621900823-0018A

**Sample Description:** Prod. Plant Office Floor/12 x 12 FT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Yellow	0.0%	100%	None Detected	

**Client Sample ID:** B7A **Lab Sample ID:** 621900823-0019

**Sample Description:** Product Plant Office Bathroom Floor/12 x 12 FT Black

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	100%	None Detected	

**Client Sample ID:** B7B **Lab Sample ID:** 621900823-0020

**Sample Description:** Product Plant Office Bathroom Floor/12 x 12 FT Black

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	100%	None Detected	



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EMSL Order ID: 621900823  
Customer ID: ATLN34  
Customer PO: Getchell Bros.  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** B7C **Lab Sample ID:** 621900823-0021  
**Sample Description:** Product Plant Office Bathroom Floor/12 x 12 FT Black

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	100%	None Detected	

**Client Sample ID:** B8A-Cork **Lab Sample ID:** 621900823-0022  
**Sample Description:** Production Plant Cork Insulation & Mastic in Crawlspace Off Storage/Cork Insulation & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Insufficient Residue	

**Client Sample ID:** B8A-Mastic **Lab Sample ID:** 621900823-0022A  
**Sample Description:** Production Plant Cork Insulation & Mastic in Crawlspace Off Storage/Cork Insulation & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black	0.0%	92.0%	8.0% Chrysotile	

**Client Sample ID:** B8B-Cork **Lab Sample ID:** 621900823-0023  
**Sample Description:** Production Plant Cork Insulation & Mastic in Crawlspace Off Storage/Cork Insulation & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Brown	0.0%	89.3%	10.7% Chrysotile	

**Client Sample ID:** B8B-Mastic **Lab Sample ID:** 621900823-0023A  
**Sample Description:** Production Plant Cork Insulation & Mastic in Crawlspace Off Storage/Cork Insulation & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B8C-Cork **Lab Sample ID:** 621900823-0024  
**Sample Description:** Production Plant Cork Insulation & Mastic in Crawlspace Off Storage/Cork Insulation & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B8C-Mastic **Lab Sample ID:** 621900823-0024A  
**Sample Description:** Production Plant Cork Insulation & Mastic in Crawlspace Off Storage/Cork Insulation & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)	

**Client Sample ID:** B9A **Lab Sample ID:** 621900823-0025  
**Sample Description:** Production Plant Wood Siding Throughout/Asphalt Siding

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected	





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EMSL Order ID: 621900823  
Customer ID: ATLN34  
Customer PO: Getchell Bros.  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

<b>Client Sample ID:</b>	B9B					<b>Lab Sample ID:</b>	621900823-0026
<b>Sample Description:</b>	Production Plant Wood Siding Throughout/Asphalt Siding						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b>	B9C					<b>Lab Sample ID:</b>	621900823-0027
<b>Sample Description:</b>	Production Plant Wood Siding Throughout/Asphalt Siding						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b>	B9D					<b>Lab Sample ID:</b>	621900823-0028
<b>Sample Description:</b>	Production Plant Wood Siding Throughout/Asphalt Siding						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b>	B9E					<b>Lab Sample ID:</b>	621900823-0029
<b>Sample Description:</b>	Production Plant Wood Siding Throughout/Asphalt Siding						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b>	B9F					<b>Lab Sample ID:</b>	621900823-0030
<b>Sample Description:</b>	Production Plant Wood Siding Throughout/Asphalt Siding						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b>	B9G					<b>Lab Sample ID:</b>	621900823-0031
<b>Sample Description:</b>	Production Plant Wood Siding Throughout/Asphalt Siding						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Tan/Black	0.0%	100%	None Detected		
<b>Client Sample ID:</b>	B10A					<b>Lab Sample ID:</b>	621900823-0032
<b>Sample Description:</b>	Small Shed Behind Prod. Plant Roof/Asphalt Roofing						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019	Black	0.0%	98.8%	1.2% Chrysotile		
<b>Client Sample ID:</b>	B10B					<b>Lab Sample ID:</b>	621900823-0033
<b>Sample Description:</b>	Small Shed Behind Prod. Plant Roof/Asphalt Roofing						
<b>TEST</b>	<b>Analyzed Date</b>	<b>Color</b>	<b>Non-Asbestos</b>		<b>Asbestos</b>	<b>Comment</b>	
			<b>Fibrous</b>	<b>Non-Fibrous</b>			
PLM Grav. Reduction	6/10/2019				Positive Stop (Not Analyzed)		



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EMSL Order ID: 621900823  
Customer ID: ATLN34  
Customer PO: Getchell Bros.  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

**Client Sample ID:** B10C **Lab Sample ID:** 621900823-0034  
**Sample Description:** Small Shed Behind Prod. Plant Roof/Asphalt Roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019					Positive Stop (Not Analyzed)

**Client Sample ID:** B11A **Lab Sample ID:** 621900823-0035  
**Sample Description:** Small Shed Behind Production Plant Siding/Asphalt Siding

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black/Green	0.0%	100%	None Detected	

**Client Sample ID:** B11B **Lab Sample ID:** 621900823-0036  
**Sample Description:** Small Shed Behind Production Plant Siding/Asphalt Siding

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Black/Beige	0.0%	100%	None Detected	

**Client Sample ID:** B11C **Lab Sample ID:** 621900823-0037  
**Sample Description:** Small Shed Behind Production Plant Siding/Asphalt Siding

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/10/2019	Gray/Black/Beige	0.0%	100%	None Detected	

PLM: ME CERT # BA-0188, BA-0197  
PLM EPA NOB: ME CERT # BA-0188, BA-0197

### Analyst(s):

Samantha Voigt PLM (2)  
PLM Grav. Reduction (21)  
Thomas Stegeman PLM (1)  
PLM Grav. Reduction (9)

### Reviewed and approved by:

Zackary Carbee, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

(Initial report from: 06/11/2019 09:32:37)





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

**Asbestos Bulk Building Material  
Chain of Custody**

EMSL Order Number (Lab Use Only):

**621900823**

South Portland, ME 04106

PHONE: (207) 517-6921

FAX: (207) 517-6922

Company: Atlantic Environmental Contractors, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 81 East Avenue Rear		Third Party Billing requires written authorization from third party	
City: Lewiston	State/Province: ME	Zip/Postal Code: 04240	Country: US
Report To (Name): Frank Perry		Telephone #: 207-783-1908	
Email Address: fperry@aecne.net		Fax #: 207-376-3237	Purchase Order: Getchell Bros.
Project Name/Number:		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: ME		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM - Bulk
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
<input checked="" type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	
<input type="checkbox"/> OSHA ID-191 Modified	<b>Other</b>
<input type="checkbox"/> Standard Addition Method	<input type="checkbox"/>

Check For Positive Stop - Clearly Identify Homogenous Group      Date Sampled: 6/6/19

Samplers Name: Frank Perry      Samplers Signature: *[Signature]*

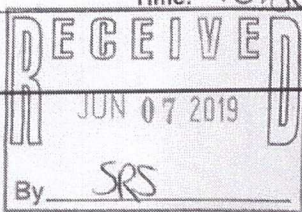
Sample #	HA #	Sample Location	Material Description
B1A-C		Office Bldg Basement 2x2 CT	CT 2x2
B2A-C		off.ice Bldg Closets Floor	9x9 FT Green
B3A-C		off.ice Bldg Ext. Rear door Awning <sup>Roof</sup>	Roofing
B4A-C		off.ice Bldg Chimney Sealant Roof	Sealant Chimney
B5A-C		off.ice Bldg Roofing	Roofing
B6A-C		Prod. Plant off.ice Floor	12x12 FT
B7A-C		Product Plant office Bath Room Floor	12x12 FT Black
B8A-C		<sup>Production Plant</sup> Cork Insulation & Mast. c in crawl space <sup>off.ice &amp; ceiling</sup>	Cork Insulation & Mast. c
B9A-C		Production Plant <del>Asphalt</del> wood Siding Throughout	Asphalt Siding
B10A-C		Small Shed behind Prod. Plant Roof	Asphalt Roofing

Client Sample # (s): B1A - B10C      Total # of Samples: 37

Relinquished (Client): AEC      Date: 6/6/19      Time: 3:30pm

Received (Lab): *[Signature]*      Date: 6/7/19      Time: 10:30am

Comments/Special Instructions:



E. Fedex  
(1 of 1)







State of Maine



Frank D. Perry

Cert No. AI-0628  
Trn. Exp. Date 11/28/2018

Expiration Date ~~11/30/2018~~

This is not a legal form of official identification



## *Lead Determination*

**Community Concepts**  
helping people changing lives

240 Bates St

**Lewiston, ME 04240**

**Phone: (207) 576-3396**

*Fax: (207) 576-3396*

---

### **Inspection date:**

06-06-2019

### **Prepared by:**

**Michael Iwans**

**Lead Risk Assessor**

**LR-0421**

### **Location:**

**1 Union Street-Building-1**

**Brewer, Maine**

### **Prepared for:**

**Beacon Environmental Consultants LLC**

**C/O John K Cressey**

# LEAD Determination

REPORT NUMBER: S#3308 06/06/19 09:54

INSPECTION FOR: Beacon Environmental Consultants LLC

PERFORMED AT: 1 Union street Building-1  
Brewer, Maine

INSPECTION DATE: 06/06/19

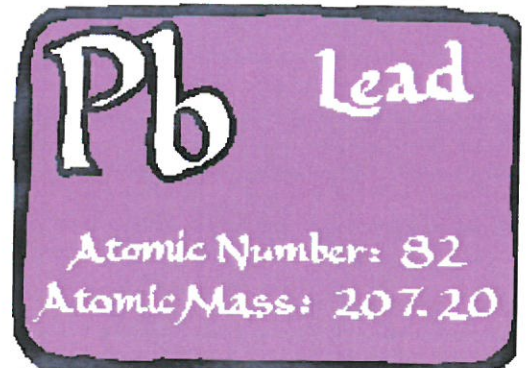
INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 03308

ACTION LEVEL: 1.0 mg/cm\*\*2

OPERATOR LICENSE: LR-0421

STATEMENT:

SIGNED *Alvin J. Dow* DATE 6-6-19



# Lead Determination Survey

**Report No:** RMD# 03308 06/06/19 09:54

**Inspection Location:** 1 Union Street Building-1  
Brewer, Maine

**Inspection Date:** 06/06/19

**Inspector:** Michael Iwans

**Testing Method:** XRF

**Laboratory:** Maine State Lab

**QA/QC:** Calibration Check as recommended by instrument manufacturer.  
XRF Testing Evaluation as described in Performance Characteristic Sheet, Oct, 25 2006, Edition No. 5

**Age of Facility:** 1900

**Facility Description:** Multi - Family

**Total XRF Reading:** 48





**Testing Results:** Approximately 0% of the building components tested was positive for Lead-based paint as defined by standards and methods in ME Lead Management regulations, Chapter 424.

The following list shows the type and location of those building components containing lead-based paint or assumed to contain lead-based paint in poor condition. These areas are by definition **Lead Hazards**.

Room # and Name	Building Component	Location
	<b>-No Hazards-</b>	

**Notes:**

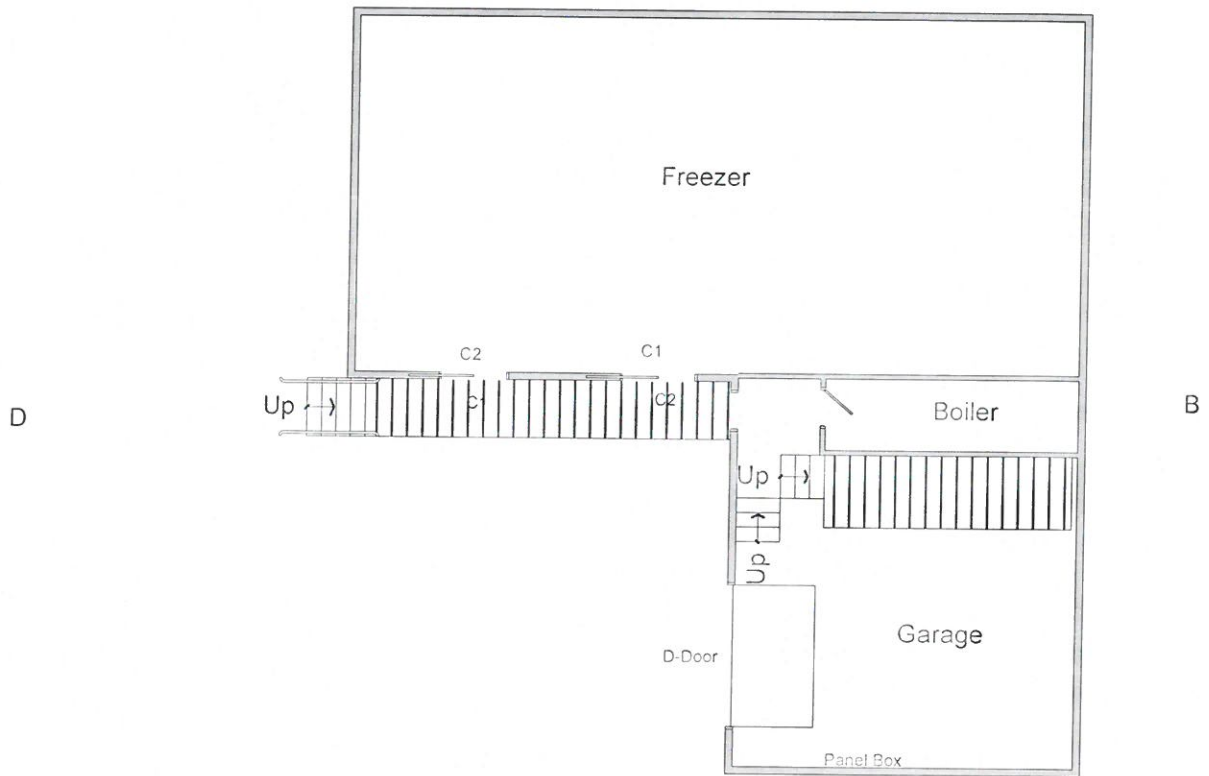
Please be advise that improper removal of lead paint can pose serious health risk to dwelling occupants and removal personnel. Removal must be done by qualified professionals who have de-leading experience and licensing and who have the proper equipment to ensure that no one is put at risk.

By law, lead hazards may only be identified by a Maine-licensed lead inspector or risk assessor in the course of a lead inspection. Lead inspections may be performed to comply with a licensing requirement, as requested prior to a real estate sale, as part of a lead poisoning investigation, or because an owner wants to learn where there are lead hazards and lead paint in a home. Prior to any lead remediation or repairs tenants must be notified. {Maine DEP Chapter 424 Lead Management Regulation}

EPA's 2008 Lead-Based Paint Renovation, Repair and Painting (RRP) Rule (as amended in 2010 and 2011), aims to protect the public from lead-based paint hazards associated with renovation, repair and painting activities. These activities can create hazardous lead dust when surfaces with lead paint. The rule requires workers to be certified and trained in the use of lead-safe work practices, and requires renovation, repair, and painting firms to be EPA-certified. These requirements became fully effective April 22, 2010. {EPA regulation on residential property renovation at 40 CFR 745, Subpart E}

Address : 1 Union Street Building-1 Brewer  
Date : 06/06/2019  
Case# : --

A



Not drawn to scale

**Note:** Please be advise that improper removal of lead paint can pose serious health risk to dwelling occupants and removal personnel. Removal should be done by qualified professionals who have de-leading experience and the proper equipment to ensure that no one is put at risk.

Keys



SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19 1 Union Street Building-1  
 Report Date: 6/6/2019 Brewer Maine  
 Abatement Level: 1.0  
 Report No. S#03308 - 06/06/19 09:54  
 Total Readings: 48  
 Job Started: 06/06/19 09:54  
 Job Finished: 06/06/19 10:49

Read No.	Rm	Room Name	Wall Structure	Location	Member	Paint Cond Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
1		CALIBRATION						0.9	TC
2		CALIBRATION						0.8	TC
3		CALIBRATION						0.9	TC
4		CALIBRATION						-0.2	TC
5		CALIBRATION						-0.1	TC
6		CALIBRATION						-0.2	TC
7	001	freezer	A wall	Lft		I Vinyl	White	0.9	QM
8	001	freezer	B wall	Lft		I Vinyl	White	0.8	QM
9	001	freezer	C wall	Lft		I Vinyl	White	0.7	QM
10	001	freezer	D wall	Lft		I Vinyl	White	-0.3	QM
11	001	freezer	1 Floor	Lft		I Concrete	Gray	-0.2	QM
12	001	freezer	C C1 Door	Lft Door		I Vinyl	White	-0.3	QM
13	001	freezer	C C1 Door	Lft Jamb		I Vinyl	White	-0.2	QM
14	001	freezer	C C2 Door	Lft Door		I Vinyl	White	-0.3	QM
15	002	garage	A wall	Lft		I Wood	Gray	-0.7	QM
16	002	garage	D wall	Lft		I Wood	Gray	-0.5	QM
17	002	garage	A wall	Lft boiler		I Wood	White	-0.7	QM
18	002	garage	B wall	Lft boiler		I Wood	White	-0.5	QM
19	002	garage	C wall	Lft boiler		I Wood	White	-1.1	QM
20	002	garage	D wall	Lft boiler		I Wood	White	-0.5	QM
21	002	garage	D Stairs	Lft Treads		D Wood	Gray	-0.3	QM
22	002	garage	D Stairs	Lft Railing cap		D Wood	Gray	-0.6	QM
23	002	garage	A Wall	Lft		I Concrete	White	0.1	QM
24	002	garage	C panel box	Lft wood		I Wood	black	-0.4	QM
25	001	A-Side	A wall	Lft		I Cement	Cream	-0.8	QM
26	002	C-Side	C wall	Lft		I Cement	Cream	-0.6	QM
27	002	C-Side	C Stairs	Lft Treads		D Wood	Gray	-0.5	QM
28	002	C-Side	C Stairs	Lft Railing cap		D Wood	Gray	-0.3	QM
29	003	D-Side	C Wall	Lft		I Concrete	Cream	-0.8	QM
30	003	D-Side	D Garage	Rgt Door		I Steel	Brown	-0.5	QM
31	002	C-Side	C C1 Door	Rgt		D Steel	White	-0.4	QM
32	002	C-Side	C C2 Door	Rgt		D Steel	White	-0.3	QM
33	003	XRF Retest	A wall	Rgt		I Vinyl	White	-0.2	QM
34	003	XRF Retest	B wall	Rgt		I Vinyl	White	-0.5	QM
35	003	XRF Retest	C wall	Rgt		I Vinyl	White	-0.3	QM
36	003	XRF Retest	D wall	Rgt		I Vinyl	White	-0.4	QM
37	003	XRF Retest	A wall	Rgt		I Wood	Gray	-1.0	QM
38	003	XRF Retest	D wall	Rgt		I Wood	Gray	-0.9	QM
39	003	XRF Retest	A wall	Rgt boiler		I Wood	White	-0.5	QM
40	003	XRF Retest	B wall	Rgt boiler		I Wood	White	-0.6	QM
41	003	XRF Retest	C wall	Rgt boiler		I Wood	White	-0.7	QM
42	003	XRF Retest	D wall	Rgt boiler		I Wood	White	-0.4	QM
43		CALIBRATION						1.1	TC
44		CALIBRATION						0.9	TC
45		CALIBRATION						1.1	TC
46		CALIBRATION						-0.3	TC
47		CALIBRATION						-0.2	TC
48		CALIBRATION						-0.2	TC

---- End of Readings ----



SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19 1 Union Street Building-1  
Report Date: 6/6/2019 Brewer Maine  
Abatement Level: 1.0  
Report No. S#03308 - 06/06/19 09:54  
Total Readings: 48 Actionable: 0  
Job Started: 06/06/19 09:54  
Job Finished: 06/06/19 10:49

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Read					Paint	Paint	Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm <sup>2</sup> ) Mode

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Calibration Readings

---- End of Readings ----



DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19 1 Union Street Building-1  
 Report Date: 6/6/2019 Brewer Maine  
 Abatement Level: 1.0  
 Report No. S#03308 - 06/06/19 09:54  
 Total Readings: 48  
 Job Started: 06/06/19 09:54  
 Job Finished: 06/06/19 10:49

Read No.	Wall	Structure	Location	Member	Paint Cond	Paint Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
Exterior Room 001 A-Side									
025	A	wall	Lft		I	Cement	Cream	-0.8	QM
Exterior Room 002 C-Side									
026	C	wall	Lft		I	Cement	Cream	-0.6	QM
031	C	C1 Door	Rgt		D	Steel	White	-0.4	QM
032	C	C2 Door	Rgt		D	Steel	White	-0.3	QM
027	C	Stairs	Lft	Treads	D	Wood	Gray	-0.5	QM
028	C	Stairs	Lft	Railing cap	D	Wood	Gray	-0.3	QM
Exterior Room 003 D-Side									
029	C	Wall	Lft		I	Concrete	Cream	-0.8	QM
030	D	Garage	Rgt	Door	I	Steel	Brown	-0.5	QM
Interior Room 001 freezer									
007	A	wall	Lft		I	Vinyl	White	0.9	QM
011	1	Floor	Lft		I	Concrete	Gray	-0.2	QM
008	B	wall	Lft		I	Vinyl	White	0.8	QM
009	C	wall	Lft		I	Vinyl	White	0.7	QM
012	C	C1 Door	Lft	Door	I	Vinyl	White	-0.3	QM
013	C	C1 Door	Lft	Jamb	I	Vinyl	White	-0.2	QM
014	C	C2 Door	Lft	Door	I	Vinyl	White	-0.3	QM
010	D	wall	Lft		I	Vinyl	White	-0.3	QM
Interior Room 002 garage									
015	A	wall	Lft		I	Wood	Gray	-0.7	QM
017	A	wall	Lft	boiler	I	Wood	White	-0.7	QM
023	A	Wall	Lft		I	Concrete	White	0.1	QM
018	B	wall	Lft	boiler	I	Wood	White	-0.5	QM
024	C	panel box	Lft	wood	I	Wood	black	-0.4	QM
019	C	wall	Lft	boiler	I	Wood	White	-1.1	QM
016	D	wall	Lft		I	Wood	Gray	-0.5	QM
020	D	wall	Lft	boiler	I	Wood	White	-0.5	QM
021	D	Stairs	Lft	Treads	D	Wood	Gray	-0.3	QM
022	D	Stairs	Lft	Railing cap	D	Wood	Gray	-0.6	QM
Calibration Readings									
001								0.9	TC
002								0.8	TC
003								0.9	TC
004								-0.2	TC
005								-0.1	TC
006								-0.2	TC
043								1.1	TC
044								0.9	TC
045								1.1	TC
046								-0.3	TC
047								-0.2	TC
048								-0.2	TC

**RMD LPA-1, PCS Edition 5 Page  
1 of 4 Performance Characteristic Sheets**

**EFFECTIVE DATE:** October 25, 2006 **EDITION NO.:** 5

**MANUFACTURER AND MODEL:**

Make: *Radiation Monitoring Devices*

Model: *LPA-1*

Source: <sup>57</sup>Co

Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.

**FIELD OPERATION GUIDANCE**

**OPERATING PARAMETERS:**

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

**XRF CALIBRATION CHECK LIMITS:**

0.7 to 1.3 mg/cm<sup>2</sup> (inclusive)

**SUBSTRATE CORRECTION:**

For XRF results below 4.0 mg/cm<sup>2</sup>, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.

None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings

Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

**THRESHOLDS:**

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0
QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

RMD LPA-1, PCS Edition 5 Page 2 of 4

**BACKGROUND INFORMATION**

**EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

**OPERATING PARAMETERS:**

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.



### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest  $1.0 \text{ mg/cm}^2$  in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the  $1.02 \text{ mg/cm}^2$  film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest  $1.0 \text{ mg/cm}^2$  for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate.

The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to  $1.02 \text{ mg/cm}^2$  at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest  $1 \text{ mg/cm}^2$ . Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the  $1.02 \text{ mg/cm}^2$  NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1^{\text{st}} + 2^{\text{nd}} + 3^{\text{rd}} + 4^{\text{th}} + 5^{\text{th}} + 6^{\text{th}} \text{ Floor Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings. RMD LPA-1, PCS Edition 5 Page 3 of 4

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

### BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than  $4.0 \text{ mg/cm}^2$  lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than  $4.0 \text{ mg/cm}^2$  lead. Of these, one 30-second standard mode reading was less than  $1.0 \text{ mg/cm}^2$  and none of the quick mode readings

were less than 1.0 mg/cm<sup>2</sup>. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model. RMD LPA-1, PCS Edition 5 Page 4 of 4

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm <sup>2</sup> )	PRECISION* (mg/cm <sup>2</sup> )
0.0 mg/cm <sup>2</sup>	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm <sup>2</sup>	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm <sup>2</sup>	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm <sup>2</sup>	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

\*Precision at 1 standard deviation.

**CLASSIFICATION RESULTS:**

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

**DOCUMENTATION:**

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, [www.hud.gov/offices/lead](http://www.hud.gov/offices/lead).

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.



**RMD LPA-1 XRF  
Calibration Check Results**

Company Name **Community Concepts** Inspector **Michael Iwans**  
 Company Address **240 Bates St** License # **LR-0421**  
 Town, State, Zip **Lewiston Maine** Date : **6/6/2019**  
 Inspection Address **1 Union Street Building-1**  
**Brewer Me**

DHS Case#

XRF S/N : **3308**  
 XRF Model **RMD LPA-1**

NIST SRM : **1.0**  
 Calibration Check Tolerance **Plus or minus 0.3 mg/cm2**

First Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
0.9	0.8	0.9	0.9	-0.13

Second Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
1.1	0.9	1.1	1.0	0.03

Calibration Check Tolerance: plus or minus 0.3 mg/cm2

First Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
-0.2	-0.1	-0.2	-0.2	-0.17

Second Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
-0.3	-0.2	-0.2	-0.1	-0.10

If the difference of the calibration check average for the first NIST SRM film value is greater than the specified calibration check tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful calibration check test.

## Background & educational information for lead

### Health Effects of Lead Exposure

Lead is a soft metal, naturally occurring in the Earth's crust. It has been determined, however, that lead has no useful purpose in the human body, and acts as a toxin. It takes the place of essential minerals such as calcium, potassium, and iron, which are vital to the construction and repair of bones, organs and blood. Lead exposures are a major health concern, especially in young children under the age of six.

Children, due to their smaller body mass and higher metabolism, are affected by lead exposures much more severely than adults. They ingest lead through daily hand-to-mouth activities and may develop severe attention deficit disorders, irreversible brain injury, learning disabilities and aggressive behaviors. The symptoms of lead poisoning often mimic other afflictions such as flu, colic or general malaise. It is important to have young children's blood tested for lead burden.

### Sources of Lead Poisoning

Since lead is ingested by routine daily activities such as eating, playing and working, it is important to understand the sources of lead exposures. The most common places to find leads in household settings are interior and exterior paint, and contaminated dust or soil. Lead-based paint is most hazardous when it is chipping, peeling, cracking, or chalking; or applied to friction surfaces of components such as doors, windows, and floors. The abrasive action of painted surfaces rubbing together causes lead-containing paints to be ground into a fine dust. Lead dust can also be created from decaying vinyl mini blinds. Lead dust then settles on furniture, play area floors, and children's toys, where children are exposed during regular activities. Several other sources of lead in the home include lead dust brought into the home from occupational exposures, water pipes, fixtures and soldered joints; decorative china, "leaded" crystal, fishing lures and sinkers, firearms ammunition, wine bottles and cosmetics. Some hobbies may also contribute to lead contamination within the home. Exposures to all sources of lead should be minimized or eliminated.

### Methods to Reduce Exposure the Lead Hazards

The simplest and often most effective way to reduce lead exposures is through regular washing of hands, toys, and horizontal surfaces in the home with a liquid hand soap or dish soap and water. It is highly recommended that disposable cleaning materials be used to wash surfaces, so as not to re-contaminate them with a used mop or cloth.

Other ways of reducing lead hazards within the home include taking shoes off before entering living areas, letting water run prior to drinking or cooking, covering exposed soil with plant materials, and vacuuming with a High Efficiency Particulate Air (HEPA) filtered vacuum. For more information regarding lead poisoning and prevention, contact your local health department or Maine Childhood Lead Poisoning Prevention Program MCLPPP



## *Lead Determination*

**Community Concepts**  
helping people changing lives

240 Bates St

**Lewiston, ME 04240**

**Phone: (207) 576-3396**

*Fax: (207) 576-3396*

---

### **Inspection date:**

06-06-2019

### **Prepared by:**

**Michael Iwans**

**Lead Risk Assessor**

**LR-0421**

### **Location:**

**1 Union Street-Building-2**

**Brewer, Maine**

### **Prepared for:**

**Beacon Environmental Consultants LLC**

**C/O John K Cressey**

# LEAD Determination

REPORT NUMBER: S#3308 06/06/19 11:02

INSPECTION FOR: Beacon Environmental Consultants LLC

PERFORMED AT: 1 Union Street Building-2  
Brewer, Maine

INSPECTION DATE: 06/06/19

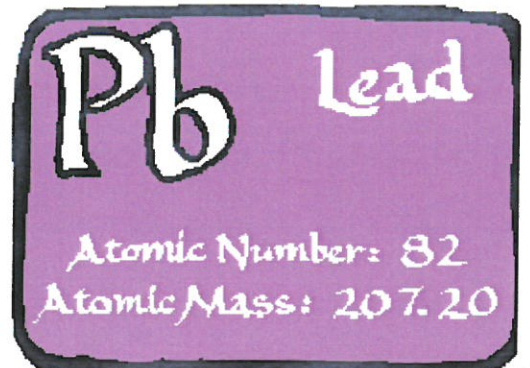
INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 03308

ACTION LEVEL: 1.0 mg/cm\*\*2

OPERATOR LICENSE: LR-0421

STATEMENT:

SIGNED *[Signature]* DATE 6-6-19





## Lead Determination Survey

**Report No:** RMD# 03308 06/06/19 11:02

**Inspection Location:** 1 Union Street Building-2  
Brewer, Maine

**Inspection Date:** 06/06/19

**Inspector:** Michael Iwans

**Testing Method:** XRF

**Laboratory:** Maine State Lab

**QA/QC:** Calibration Check as recommended by instrument manufacturer.  
XRF Testing Evaluation as described in Performance Characteristic Sheet, Oct, 25 2006, Edition No. 5

**Age of Facility:** 1900

**Facility Description:** Multi - Family

**Total XRF Reading:** 69



**Testing Results:** Approximately 9% of the building components tested was positive for Lead-based paint as defined by standards and methods in ME Lead Management regulations, Chapter 424.

The following list shows the type and location of those building components containing lead-based paint or assumed to contain lead-based paint in poor condition. These areas are by definition **Lead Hazards**.

Room # and Name	Building Component	Location
	-No Hazards-	

**Notes:**

Please be advise that improper removal of lead paint can pose serious health risk to dwelling occupants and removal personnel. Removal must be done by qualified professionals who have de-leading experience and licensing and who have the proper equipment to ensure that no one is put at risk.

By law, lead hazards may only be identified by a Maine-licensed lead inspector or risk assessor in the course of a lead inspection. Lead inspections may be performed to comply with a licensing requirement, as requested prior to a real estate sale, as part of a lead poisoning investigation, or because an owner wants to learn where there are lead hazards and lead paint in a home. Prior to any lead remediation or repairs tenants must be notified. {Maine DEP Chapter 424 Lead Management Regulation}

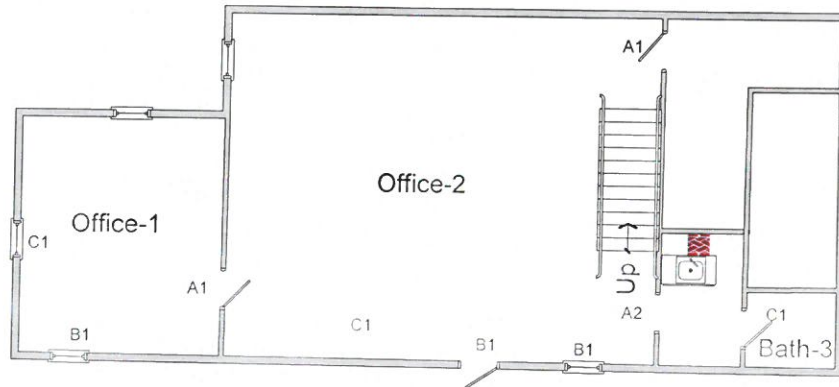
EPA's 2008 Lead-Based Paint Renovation, Repair and Painting (RRP) Rule (as amended in 2010 and 2011), aims to protect the public from lead-based paint hazards associated with renovation, repair and painting activities. These activities can create hazardous lead dust when surfaces with lead paint. The rule requires workers to be certified and trained in the use of lead-safe work practices, and requires renovation, repair, and painting firms to be EPA-certified. These requirements became fully effective April 22, 2010. {EPA regulation on residential property renovation at 40 CFR 745, Subpart E}

Address : 1 Union Street Building-2 Brewer  
Date : 06/06/2019  
Case# : --

A



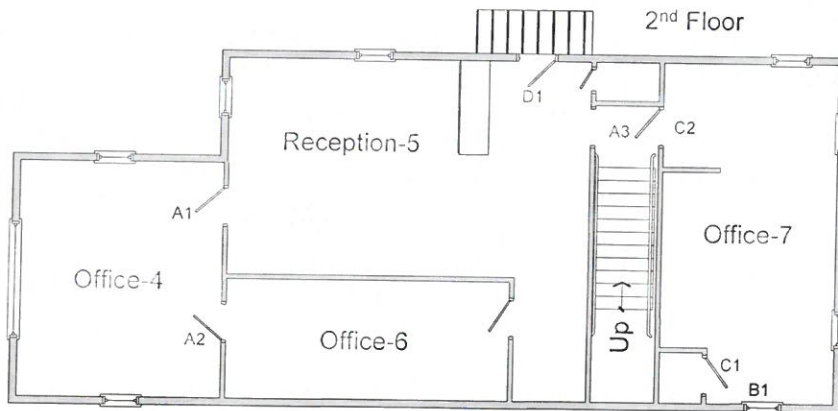
1<sup>st</sup> Floor



D

B

2<sup>nd</sup> Floor



Not drawn to scale

Note: Please be advise that improper removal of lead paint can pose serious health risk to dwelling occupants and removal personnel. Removal should be done by qualified professionals who have de-leading experience and the proper equipment to ensure that no one is put at risk.

Keys

window door opening



SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19  
 Report Date: 6/6/2019  
 Abatement Level: 1.0  
 Report No. S#03308 - 06/06/19 11:02  
 Total Readings: 69  
 Job Started: 06/06/19 11:02  
 Job Finished: 06/06/19 11:46

1 Union Street Building-2  
 Brewer Maine

Read No.	Room	Room Name	Wall Structure	Location	Member	Paint Cond	Paint Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
1		CALIBRATION								
2		CALIBRATION							1.2	TC
3		CALIBRATION							0.9	TC
4		CALIBRATION							0.8	TC
5		CALIBRATION							-0.2	TC
6		CALIBRATION							-0.1	TC
7	001	office	A	Wall	Lft		I Plaster	White	-0.2	TC
8	001	office	B	Wall	Lft		I Plaster	White	-0.5	QM
9	001	office	C	Wall	Lft		I Plaster	White	-0.5	QM
10	001	office	D	Wall	Lft		I Plaster	White	-0.6	QM
11	001	office	A	A1 Door	Lft Door		I Wood	White	-0.5	QM
12	001	office	A	A1 Door	Lft Jamb		I Wood	White	2.6	QM
13	001	office	A	A1 Door	Lft Casing		I Wood	White	4.6	QM
14	001	office	B	B1 Door	Lft		I Steel	White	8.6	QM
15	001	office	B	B1 Window	Lft Sill		I Wood	White	-0.4	QM
16	001	office	B	B1 Window	Lft Casing		I Wood	White	-0.3	QM
17	001	office	C	C1 Window	Lft Casing		I Wood	White	-0.2	QM
18	001	office	1	Ceiling	Lft		I Wood	White	-0.4	QM
19	002	office	A	wall	Lft		I tile	White	-0.2	QM
20	002	office	B	wall	Lft		I Plaster	White	-0.3	QM
21	002	office	C	wall	Lft		I Plaster	White	-0.5	QM
22	002	office	D	wall	Lft		I Plaster	White	-0.4	QM
23	002	office	A	A1 Door	Lft Door		I Plaster	White	-0.2	QM
24	002	office	A	A1 Door	Lft Casing		I Wood	White	-0.4	QM
25	002	office	A	A1 Door	Lft Jamb		I Wood	White	-0.4	QM
26	002	office	A	A2 Door	Lft Jamb		I Wood	White	-0.5	QM
27	002	office	A	A2 Door	Lft Jamb		I Wood	White	-0.3	QM
28	002	office	A	Chimney	Lft Casing		I Wood	White	-0.5	QM
29	002	office	A	Chimney	Lft		I Brick	White	-0.8	QM
30	002	office	A	Chimney	Lft Trim		I Wood	White	-0.5	QM
31	002	office	A	Sink	Lft		I Steel	White	-0.5	QM
32	002	office	B	B1 Window	Lft Sill		I Steel	White	>9.9	QM
33	002	office	B	B1 Door	Lft Door		I Wood	Gray	-0.2	QM
34	002	office	A	Stairs	Lft Stringers		I Steel	White	-0.8	QM
35	002	office	1	Ceiling	Lft		I Wood	White	-0.3	QM
36	003	Bathrm	A	wall	Lft		I tile	White	-0.5	QM
37	003	Bathrm	B	wall	Lft		I Plaster	White	-0.5	QM
38	003	Bathrm	C	wall	Lft		I Plaster	White	-0.3	QM
39	003	Bathrm	D	wall	Lft		I Plaster	White	-0.4	QM
40	003	Bathrm	1	Floor	Lft		I Plaster	White	-0.5	QM
41	003	Bathrm	C	C1 Door	Lft		I Wood	Brown	-0.5	QM
42	004	office	A	wall	Lft		I Wood	Gray	-0.7	QM
43	004	office	B	wall	Lft		I Wood	Brown	0.0	QM
44	004	office	A	A1 Door	Lft Door		I Wood	Brown	-0.3	QM
45	004	office	A	A1 Door	Lft Jamb		I Wood	Brown	-0.3	QM
46	004	office	A	A2 Door	Lft Door		I Wood	White	-0.1	QM
47	005	reception	A	wall	Lft		I Wood	Brown	-1.0	QM
48	005	reception	B	wall	Lft		I Plaster	White	-0.3	QM
49	005	reception	A	A1 Door	Lft Door		I Plaster	White	-0.4	QM
50	005	reception	A	A1 Door	Lft Door		I Wood	Gray	0.0	QM

49	005	reception	D	D1 Door	Lft Jamb	I Wood	Brown	1.0	QM
50	005	reception	A	A3 Door	Lft Door	I Wood	Gray	0.0	QM
51	005	reception	A	A3 Door	Lft Jamb	I Wood	Gray	-0.7	QM
52	006	office	A	wall	Lft	I Plaster	Gray	-0.8	QM
53	006	office	B	wall	Lft	I Plaster	Gray	-0.6	QM
54	006	office	C	C1 Door	Lft Door	I Wood	Gray	-0.4	QM
55	006	office	C	C1 Window	Lft Casing	I Wood	Gray	-0.3	QM
56	007	office	A	wall	Lft	I Plaster	Gray	-0.6	QM
57	007	office	B	wall	Lft	I Plaster	Gray	-0.6	QM
58	007	office	B	B1 Window	Lft Casing	I Wood	blue	-0.5	QM
59	007	office	B	B1 Window	Lft Sill	I Wood	blue	-0.4	QM
60	007	office	C	C2 Door	Lft Door	I Wood	Gray	-0.4	QM
61	001	A-Side	A	Stairs	Lft Treads	D Wood	Brown	-0.4	QM
62	001	A-Side	A	Stairs	Lft Railing cap	D Steel	Gray	0.5	QM
63	003	C-Side	C	wall	Lft entry	D Wood	Cream	-0.7	QM
64		CALIBRATION						0.9	TC
65		CALIBRATION						1.1	TC
66		CALIBRATION						0.9	TC
67		CALIBRATION						0.0	TC
68		CALIBRATION						-0.1	TC
69		CALIBRATION						-0.2	TC

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19 1 Union Street Building-2  
 Report Date: 6/6/2019 Brewer Maine  
 Abatement Level: 1.0  
 Report No. S#03308 - 06/06/19 11:02  
 Total Readings: 69 Actionable: 5  
 Job Started: 06/06/19 11:02  
 Job Finished: 06/06/19 11:46

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior Room 001 office									
011	A	A1 Door	Lft	Door	I	Wood	White	2.6	QM
012	A	A1 Door	Lft	Jamb	I	Wood	White	4.6	QM
013	A	A1 Door	Lft	Casing	I	Wood	White	8.6	QM
Interior Room 002 office									
030	A	Sink	Lft		I	Steel	White	>9.9	QM
Interior Room 005 reception									
049	D	D1 Door	Lft	Jamb	I	Wood	Brown	1.0	QM

Calibration Readings

---- End of Readings ----



DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19 1 Union Street Building-2  
 Report Date: 6/6/2019 Brewer Maine  
 Abatement Level: 1.0  
 Report No. S#03308 - 06/06/19 11:02  
 Total Readings: 69  
 Job Started: 06/06/19 11:02  
 Job Finished: 06/06/19 11:46

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
Exterior Room 001 A-Side									
061	A	Stairs	Lft	Treads	D	Wood	Brown	-0.4	QM
062	A	Stairs	Lft	Railing cap	D	Steel	Gray	0.5	QM
Exterior Room 003 C-Side									
063	C	wall	Lft	entry	D	Wood	Cream	-0.7	QM
Interior Room 001 office									
011	A	A1 Door	Lft	Door	I	Wood	White	2.6	QM
012	A	A1 Door	Lft	Jamb	I	Wood	White	4.6	QM
013	A	A1 Door	Lft	Casing	I	Wood	White	8.6	QM
007	A	Wall	Lft		I	Plaster	White	-0.5	QM
018	1	Ceiling	Lft		I	tile	White	-0.2	QM
014	B	B1 Door	Lft		I	Steel	White	-0.4	QM
015	B	B1 Window	Lft	Sill	I	Wood	White	-0.3	QM
016	B	B1 Window	Lft	Casing	I	Wood	White	-0.2	QM
008	B	Wall	Lft		I	Plaster	White	-0.5	QM
017	C	C1 Window	Lft	Casing	I	Wood	White	-0.4	QM
009	C	Wall	Lft		I	Plaster	White	-0.6	QM
010	D	Wall	Lft		I	Plaster	White	-0.5	QM
Interior Room 002 office									
019	A	wall	Lft		I	Plaster	White	-0.3	QM
023	A	A1 Door	Lft	Door	I	Wood	White	-0.4	QM
024	A	A1 Door	Lft	Casing	I	Wood	White	-0.4	QM
025	A	A1 Door	Lft	Jamb	I	Wood	White	-0.5	QM
026	A	A2 Door	Lft	Jamb	I	Wood	White	-0.3	QM
027	A	A2 Door	Lft	Casing	I	Wood	White	-0.5	QM
028	A	Chimney	Lft		I	Brick	White	-0.8	QM
029	A	Chimney	Lft	Trim	I	Wood	White	-0.5	QM
030	A	Sink	Lft		I	Steel	White	>9.9	QM
034	1	Ceiling	Lft		I	tile	White	-0.5	QM
033	A	Stairs	Lft	Stringers	I	Wood	White	-0.3	QM
020	B	wall	Lft		I	Plaster	White	-0.5	QM
031	B	B1 Window	Lft	Sill	I	Wood	Gray	-0.2	QM
032	B	B1 Door	Lft	Door	I	Steel	White	-0.8	QM
021	C	wall	Lft		I	Plaster	White	-0.4	QM
022	D	wall	Lft		I	Plaster	White	-0.2	QM
Interior Room 003 Bathrm									
035	A	wall	Lft		I	Plaster	White	-0.5	QM
039	1	Floor	Lft		I	Wood	Brown	-0.5	QM
036	B	wall	Lft		I	Plaster	White	-0.3	QM
037	C	wall	Lft		I	Plaster	White	-0.4	QM
040	C	C1 Door	Lft		I	Wood	Gray	-0.7	QM
038	D	wall	Lft		I	Plaster	White	-0.5	QM

Interior Room 004 office

041	A	wall	Lft		I	Wood	Brown	0.0	QM
043	A	A1 Door	Lft	Door	I	Wood	Brown	-0.3	QM
044	A	A1 Door	Lft	Jamb	I	Wood	White	-0.1	QM
045	A	A2 Door	Lft	Door	I	Wood	Brown	-1.0	QM
042	B	wall	Lft		I	Wood	Brown	-0.3	QM

Interior Room 005 reception

046	A	wall	Lft		I	Plaster	White	-0.3	QM
048	A	A1 Door	Lft	Door	I	Wood	Gray	0.0	QM
049	A	A1 Door	Lft	Jamb	I	Wood	Brown	1.0	QM
047	B	wall	Lft		I	Plaster	White	-0.4	QM
050	B	B3 Door	Lft	Door	I	Wood	Gray	0.0	QM
051	B	B3 Door	Lft	Jamb	I	Wood	Gray	-0.7	QM

Interior Room 006 office

052	A	wall	Lft		I	Plaster	Gray	-0.8	QM
053	B	wall	Lft		I	Plaster	Gray	-0.6	QM
054	C	C1 Door	Lft	Door	I	Wood	Gray	-0.4	QM
055	C	C1 Window	Lft	Casing	I	Wood	Gray	-0.3	QM

Interior Room 007 office

056	A	wall	Lft		I	Plaster	Gray	-0.6	QM
057	B	wall	Lft		I	Plaster	Gray	-0.6	QM
058	B	B1 Window	Lft	Casing	I	Wood	blue	-0.5	QM
059	B	B1 Window	Lft	Sill	I	Wood	blue	-0.4	QM
060	C	C2 Door	Lft	Door	I	Wood	Gray	-0.4	QM

Calibration Readings

001								1.2	TC
002								0.9	TC
003								0.8	TC
004								-0.2	TC
005								-0.1	TC
006								-0.2	TC
064								0.9	TC
065								1.1	TC
066								0.9	TC
067								0.0	TC
068								-0.1	TC
069								-0.2	TC

---- End of Readings ----



**RMD LPA-1, PCS Edition 5 Page  
1 of 4 Performance Characteristic Sheets**

**EFFECTIVE DATE:** October 25, 2006 **EDITION NO.:** 5

**MANUFACTURER AND MODEL:**

Make: *Radiation Monitoring Devices*

Model: *LPA-1*

Source: <sup>57</sup>Co

Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.

**FIELD OPERATION GUIDANCE**

**OPERATING PARAMETERS:**

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

**XRF CALIBRATION CHECK LIMITS:**

0.7 to 1.3 mg/cm<sup>2</sup> (inclusive)

**SUBSTRATE CORRECTION:**

For XRF results below 4.0 mg/cm<sup>2</sup>, substrate correction is recommended for:  
Metal using 30-second equivalent standard (Time Corrected) mode readings.

None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings

Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

**THRESHOLDS:**

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0
QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

RMD LPA-1, PCS Edition 5 Page 2 of 4

**BACKGROUND INFORMATION**

**EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

**OPERATING PARAMETERS:**

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

#### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest  $1.0 \text{ mg/cm}^2$  in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the  $1.02 \text{ mg/cm}^2$  film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

#### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest  $1.0 \text{ mg/cm}^2$  for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate.

The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to  $1.02 \text{ mg/cm}^2$  at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest  $1 \text{ mg/cm}^2$ . Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the  $1.02 \text{ mg/cm}^2$  NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1^{\text{st}} + 2^{\text{nd}} + 3^{\text{rd}} + 4^{\text{th}} + 5^{\text{th}} + 6^{\text{th}} \text{ Floor Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

#### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings. RMD LPA-1, PCS Edition 5 Page 3 of 4

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

#### BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than  $4.0 \text{ mg/cm}^2$  lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than  $4.0 \text{ mg/cm}^2$  lead. Of these, one 30-second standard mode reading was less than  $1.0 \text{ mg/cm}^2$  and none of the quick mode readings were less than  $1.0 \text{ mg/cm}^2$ . The instrument that tested in July is representative of instruments sold or serviced after



June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model. RMD LPA-1, PCS Edition 5 Page 4 of 4

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm <sup>2</sup> )	PRECISION* (mg/cm <sup>2</sup> )
0.0 mg/cm <sup>2</sup>	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm <sup>2</sup>	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm <sup>2</sup>	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm <sup>2</sup>	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

\*Precision at 1 standard deviation.

**CLASSIFICATION RESULTS:**

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

**DOCUMENTATION:**

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, [www.hud.gov/offices/lead](http://www.hud.gov/offices/lead).

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

**RMD LPA-1 XRF  
Calibration Check Results**

Company Name **Community Concepts**      Inspector **Michael Iwans**  
 Company Address **240 Bates St**      License # **LR-0421**  
 Town, State, Zip **Lewiston Maine**      Date : **6/6/2019**  
 Inspection Address **1 Union street Building-2**  
**Brewer Me**

DHS Case#

XRF S/N : **3308**  
 XRF Model **RMD LPA-1**

NIST SRM : **1.0**  
 Calibration Check Tolerance **Plus or minus 0.3 mg/cm2**

First Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
1.2	0.9	0.8	1.0	-0.03

Second Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
0.9	1.1	0.9	1.0	-0.03

Calibration Check Tolerance: plus or minus 0.3 mg/cm2

First Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
-0.2	-0.1	-0.2	-0.2	-0.17

Second Calibration Check:

Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
0.0	-0.1	-0.2	-0.1	-0.10

If the difference of the calibration check average for the first NIST SRM film value is greater than the specified calibration check tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful calibration check test.



## Background & educational information for lead

### Health Effects of Lead Exposure

Lead is a soft metal, naturally occurring in the Earth's crust. It has been determined, however, that lead has no useful purpose in the human body, and acts as a toxin. It takes the place of essential minerals such as calcium, potassium, and iron, which are vital to the construction and repair of bones, organs and blood. Lead exposures are a major health concern, especially in young children under the age of six.

Children, due to their smaller body mass and higher metabolism, are affected by lead exposures much more severely than adults. They ingest lead through daily hand-to-mouth activities and may develop severe attention deficit disorders, irreversible brain injury, learning disabilities and aggressive behaviors. The symptoms of lead poisoning often mimic other afflictions such as flu, colic or general malaise. It is important to have young children's blood tested for lead burden.

### Sources of Lead Poisoning

Since lead is ingested by routine daily activities such as eating, playing and working, it is important to understand the sources of lead exposures. The most common places to find leads in household settings are interior and exterior paint, and contaminated dust or soil. Lead-based paint is most hazardous when it is chipping, peeling, cracking, or chalking; or applied to friction surfaces of components such as doors, windows, and floors. The abrasive action of painted surfaces rubbing together causes lead-containing paints to be ground into a fine dust. Lead dust can also be created from decaying vinyl mini blinds. Lead dust then settles on furniture, play area floors, and children's toys, where children are exposed during regular activities. Several other sources of lead in the home include lead dust brought into the home from occupational exposures, water pipes, fixtures and soldered joints; decorative china, "leaded" crystal, fishing lures and sinkers, firearms ammunition, wine bottles and cosmetics. Some hobbies may also contribute to lead contamination within the home. Exposures to all sources of lead should be minimized or eliminated.

### Methods to Reduce Exposure the Lead Hazards

The simplest and often most effective way to reduce lead exposures is through regular washing of hands, toys, and horizontal surfaces in the home with a liquid hand soap or dish soap and water. It is highly recommended that disposable cleaning materials be used to wash surfaces, so as not to re-contaminate them with a used mop or cloth.

Other ways of reducing lead hazards within the home include taking shoes off before entering living areas, letting water run prior to drinking or cooking, covering exposed soil with plant materials, and vacuuming with a High Efficiency Particulate Air (HEPA) filtered vacuum. For more information regarding lead poisoning and prevention, contact your local health department or Maine Childhood Lead Poisoning Prevention Program MCLPPP

## *Lead Determination*

**CommunityConcepts**  
helping people changing lives

240 Bates St

**Lewiston, ME 04240**

Phone: (207) 890-3590

---

### **Inspection date:**

06-06-2019

### **Prepared by:**

**Andrew Watson**

Lead Risk Assessor

LR-0396

### **Location:**

1 Union Street-Building-3

Brewer, Maine

### **Prepared for:**

**Beacon Environmental Consultants LLC**

**C/O John K Cressey**

# LEAD Determination

REPORT NUMBER: S#1665 06/06/19 09:51

INSPECTION FOR: Beacon Environmental Consultants LLC

PERFORMED AT: 1 Union street Building-3  
Brewer, Maine

INSPECTION DATE: 06/06/19

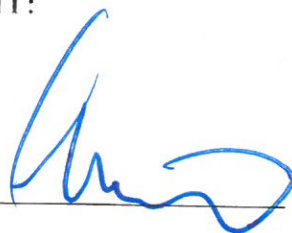
INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 01665

ACTION LEVEL: 1.0 mg/cm\*\*2

OPERATOR LICENSE: LR-0396

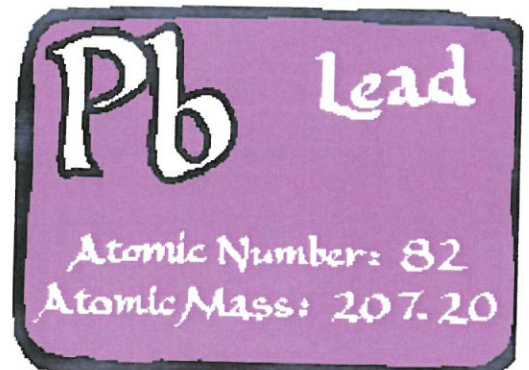
STATEMENT:

SIGNED



DATE

6/06/19





# Lead Determination Survey

**Report No:** RMD# 01665 06/06/19 09:51

**Inspection Location:** 1 Union Street Building-3  
Brewer, Maine

**Inspection Date:** 06/06/19

**Inspector:** Michael Iwans

**Testing Method:** XRF

**Laboratory:** Maine State Lab

**QA/QC:** Calibration Check as recommended by instrument manufacturer.  
XRF Testing Evaluation as described in Performance Characteristic Sheet, Oct, 25 2006, Edition No. 5

**Age of Facility:** 1900

**Facility Description:** Multi - Family

**Total XRF Reading:** 77





**Testing Results:** Approximately 25% of the building components tested was **positive** for Lead-based paint as defined by standards and methods in ME Lead Management regulations, Chapter 424.

The following list shows the type and location of those building components containing lead-based paint or assumed to contain lead-based paint in poor condition. These areas are by definition Lead Hazards.

Room # and Name	Building Component	Location
<b>Exterior</b>	<i>Upper trim</i>	<i>All</i>
	<i>Access doors</i>	<i>All A,C side</i>
	<i>Shed door &amp; door casing</i>	<i>A side</i>
	<i>Door {access to doc area}</i>	<i>B side</i>
<b>Freezer #1</b>	<i>Post</i>	<i>x4</i>
<b>Freezer #2</b>	<i>Post</i>	<i>x4</i>
<b>Freezer #3</b>	<i>Door</i>	<i>A side</i>
	<i>Post</i>	<i>post</i>
<b>Doc area</b>	<i>Door, door casing &amp; jamb</i>	<i>D</i>
<b>Hall</b>	<i>Door</i>	<i>Bx2,Dx1</i>

**Notes:**

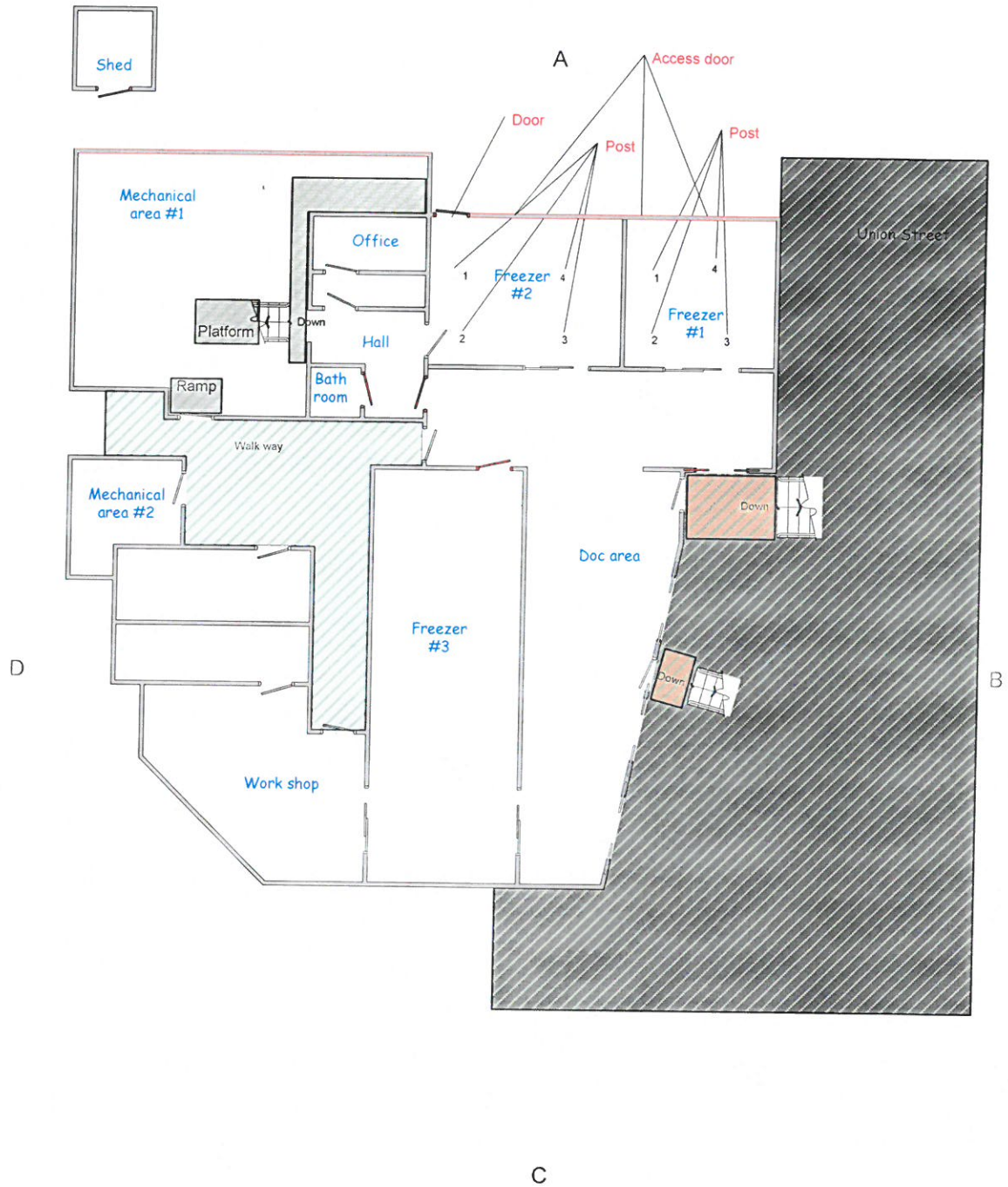
Please be advise that improper removal of lead paint can pose serious health risk to dwelling occupants and removal personnel. Removal must be done by qualified professionals who have de-leading experience and licensing and who have the proper equipment to ensure that no one is put at risk.

By law, lead hazards may only be identified by a Maine-licensed lead inspector or risk assessor in the course of a lead inspection. Lead inspections may be performed to comply with a licensing requirement, as requested prior to a real estate sale, as part of a lead poisoning investigation, or because an owner wants to learn where there are lead hazards and lead paint in a home. Prior to any lead remediation or repairs tenants must be notified. {Maine DEP Chapter 424 Lead Management Regulation}

EPA's 2008 Lead-Based Paint Renovation, Repair and Painting (RRP) Rule (as amended in 2010 and 2011), aims to protect the public from lead-based paint hazards associated with renovation, repair and painting activities. These activities can create hazardous lead dust when surfaces with lead paint. The rule requires workers to be certified and trained in the use of lead-safe work practices, and requires renovation, repair, and painting firms to be EPA-certified. These requirements became fully effective April 22, 2010. {EPA regulation on residential property renovation at 40 CFR 745, Subpart E}

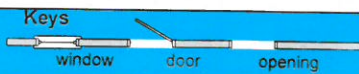
Building layout

Address : 1 Union Street Brewer Maine Building #3  
Date : 06/06/2019



Not drawn to scale

Note: Please be advise that improper removal of lead paint can pose serious health risk to dwelling occupants and removal personnel. Removal should be done by qualified professionals who have de-leading experience and the proper equipment to ensure that no one is put at risk.





SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19  
 Report Date: 6/6/2019  
 Abatement Level: 1.0  
 Report No. S#01665 - 06/06/19 09:51  
 Total Readings: 77  
 Job Started: 06/06/19 09:51  
 Job Finished: 06/06/19 11:46

1 Union Street  
 Brewer Maine

Read No.	Room	Room Name	Wall Structure	Location	Member	Paint		Lead (mg/cm <sup>2</sup> )	Mode
						Cond Substrate	Color		
1		CALIBRATION						0.9	TC
2		CALIBRATION						1.0	TC
3		CALIBRATION						0.9	TC
4		CALIBRATION						0.0	TC
5		CALIBRATION						-0.2	TC
6		CALIBRATION						0.0	TC
7	001	ICE PLANT	1 Freezer#1	1 post		D Wood	Gray	1.7	QM
8	001	ICE PLANT	1 Freezer#1	2 post		D Wood	Gray	2.0	QM
9	001	ICE PLANT	1 Freezer#1	2 post		D Wood	Yellow	1.7	QM
10	001	ICE PLANT	1 Freezer#1	3 post		D Wood	Gray	1.0	QM
11	001	ICE PLANT	1 Freezer#1	3 post		D Wood	Gray	1.5	QM
12	001	ICE PLANT	D Freezer#1	lower Trim		D Wood	Cream	0.0	QM
13	001	ICE PLANT	D Freezer#1	Ctr wall		D Composite	White	0.1	QM
14	001	ICE PLANT	1 Freezer #2	1 post		D Wood	blue	1.4	QM
15	001	ICE PLANT	1 Freezer #2	2 post		D Wood	blue	0.4	QM
16	001	ICE PLANT	1 Freezer #2	3 post		D Wood	blue	1.4	QM
17	001	ICE PLANT	1 Freezer #2	4 post		D Wood	blue	1.6	QM
18	001	ICE PLANT	C Freezer #2	Ctr wall		D Composite	White	0.1	QM
19	001	ICE PLANT	1 Freezer #3	1 post		I Metal	blue	0.0	QM
20	001	ICE PLANT	1 Freezer #3	2 post		I Metal	blue	0.0	QM
21	001	ICE PLANT	1 Freezer #3	3 post		I Metal	blue	1.0	QM
22	001	ICE PLANT	A Freezer #3	Rgt door		D Wood	White	1.0	QM
23	001	ICE PLANT	A Freezer #3	Rgt wall		D Composite	White	-0.2	QM
24	001	ICE PLANT	C Freezer #3	Rgt wall		D Composite	White	-0.2	QM
25	001	ICE PLANT	D Doc	Rgt door		D Wood	green	7.1	QM
26	001	ICE PLANT	D Doc	Rgt Door casing		D Wood	green	8.2	QM
27	001	ICE PLANT	D Doc	Rgt Door jamb		D Wood	green	8.1	QM
28	001	ICE PLANT	D Doc	Rgt post		D Metal	White	-0.1	QM
29	001	ICE PLANT	A Work shop	Rgt post		D Metal	White	0.0	QM
30	001	ICE PLANT	A Work shop	Rgt wall		D Composite	White	-0.2	QM
31	001	ICE PLANT	A office	Ctr wall		D Wood	White	0.0	QM
32	001	ICE PLANT	C office	Ctr wall		D Wood	White	-0.1	QM
33	001	ICE PLANT	1 office	Ctr Ceiling		D Wood	White	-0.1	QM
34	001	ICE PLANT	1 office	Ctr door		D Wood	Brown	-0.2	QM
35	001	ICE PLANT	1 hall	Ctr Floor		D Wood	Gray	-0.2	QM
36	001	ICE PLANT	C hall	Ctr wall		D Wood	White	0.0	QM
37	001	ICE PLANT	C hall	Ctr wall		D Wood	Gray	-0.1	QM
38	001	ICE PLANT	B hall	Ctr wall		D Wood	Gray	-0.1	QM
39	001	ICE PLANT	B hall	Ctr wall		D Wood	White	-0.1	QM
40	001	ICE PLANT	1 hall	Ctr Ceiling		D Wood	White	0.0	QM
41	001	ICE PLANT	B hall	1 door		D Wood	green	2.7	QM
42	001	ICE PLANT	B hall	2 door		D Wood	green	2.2	QM
43	001	ICE PLANT	D hall	1 door		D Wood	green	1.7	QM
44	001	ICE PLANT	1 hall	Upper Floor		D Wood	Gray	0.1	QM
45	001	ICE PLANT	A mechanical	Upper wall		D Concrete	White	0.1	QM
46	001	ICE PLANT	D mechanical	Ctr wall		D Wood	White	-0.2	QM
47	001	ICE PLANT	C mechanical	Ctr wall		D Wood	White	-0.2	QM
48	001	ICE PLANT	A mechanical	Ctr Floor		D Concrete	Gray	0.3	QM

49	001	ICE PLANT	C	mechanical	Ctr Floor	D Concrete	Gray	-0.2	QM
50	001	ICE PLANT	C	mechanical	Ctr Floor	D Concrete	red	-0.1	QM
51	001	ICE PLANT	C	mechanical	Ctr platform	D Wood	Gray	0.0	QM
52	001	ICE PLANT	C	mechanical	Ctr Ramp	D Wood	Gray	0.0	QM
53	001	ICE PLANT	C	mechanical	Ctr Stair tread	D Wood	Gray	-0.2	QM
54	001	ICE PLANT	C	mechanical	1 post	D Wood	Gray	0.0	QM
55	001	ICE PLANT	C	mechanical	2 post	D Wood	Gray	-0.1	QM
56	001	ice pl A	A	Window	1 Rgt casing	D Wood	Cream	0.0	QM
57	001	ice pl A	A	Window	1 Sill	D Wood	Cream	0.0	QM
58	001	ice pl A	A	Trim	Upper	D Wood	Cream	1.8	QM
59	001	ice pl A	A	Window	Ctr Casing	D Wood	Cream	0.0	QM
60	001	ice pl A	A	Window	Ctr Sill	D Wood	Cream	0.0	QM
61	001	ice pl A	A	Siding	Ctr	D Wood	Cream	0.0	QM
62	001	ice pl A	A	Door	Rgt --	D Wood	Brown	2.1	QM
63	001	ice pl A	A	Door	Rgt Casing	D Wood	Brown	2.2	QM
64	001	ice pl A	A	access door	Rgt	D Wood	Brown	2.6	QM
65	001	ice pl A	A	access door	Ctr	D Wood	Brown	2.6	QM
66	001	ice pl A	A	access door	Lft	D Wood	Brown	2.5	QM
67	002	ice pl B	B	Siding	Lft	D Wood	Cream	0.0	QM
68	002	ice pl B	B	Door	Lft --	D Wood	Brown	1.0	QM
69	001	ice pl A	A	Shed	Lft door	D Wood	Brown	2.6	QM
70	001	ice pl A	A	Shed	Lft Door casing	D Wood	Brown	2.4	QM
71		CALIBRATION						1.0	TC
72		CALIBRATION						1.0	TC
73		CALIBRATION						1.0	TC
74		CALIBRATION						0.0	TC
75		CALIBRATION						0.0	TC
76		CALIBRATION						-0.1	TC
77		CALIBRATION						0.1	TC
								0.0	TC

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19  
 Report Date: 6/6/2019  
 Abatement Level: 1.0  
 Report No. S#01665 - 06/06/19 09:51  
 Total Readings: 77 Actionable: 25  
 Job Started: 06/06/19 09:51  
 Job Finished: 06/06/19 11:46

1 Union Street  
 Brewer Maine

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
<b>Exterior Room 001 ice plant A</b>									
058	A	Trim	Upper		D	Wood	Cream	1.8	QM
066	A	access door	Lft		D	Wood	Brown	2.5	QM
069	A	Shed	Lft door		D	Wood	Brown	2.6	QM
070	A	Shed	Lft Door casing		D	Wood	Brown	2.4	QM
065	A	access door	Ctr		D	Wood	Brown	2.6	QM
064	A	access door	Rgt		D	Wood	Brown	2.6	QM
062	A	Door	Rgt --		D	Wood	Brown	2.1	QM
063	A	Door	Rgt Casing		D	Wood	Brown	2.2	QM
<b>Exterior Room 002 ice Plant B</b>									
068	B	Door	Lft --		D	Wood	Brown	1.0	QM
<b>Interior Room 001 ICE Plant</b>									
007	1	Freezer#1	1 post		D	Wood	Gray	1.7	QM
008	1	Freezer#1	2 post		D	Wood	Gray	2.0	QM
009	1	Freezer#1	2 post		D	Wood	Yellow	1.7	QM
010	1	Freezer#1	3 post		D	Wood	Gray	1.0	QM
011	1	Freezer#1	3 post		D	Wood	Gray	1.5	QM
014	1	Freezer #2	1 post		D	Wood	blue	1.4	QM
016	1	Freezer #2	3 post		D	Wood	blue	1.4	QM
017	1	Freezer #2	4 post		D	Wood	blue	1.6	QM
021	1	Freezer #3	3 post		I	Metal	blue	1.0	QM
022	A	Freezer #3	Rgt door		D	Wood	White	1.0	QM
041	B	hall	1 door		D	Wood	green	2.7	QM
042	B	hall	2 door		D	Wood	green	2.2	QM
043	D	hall	1 door		D	Wood	green	1.7	QM
025	D	Doc	Rgt door		D	Wood	green	7.1	QM
026	D	Doc	Rgt Door casing		D	Wood	green	8.2	QM
027	D	Doc	Rgt Door jamb		D	Wood	green	8.1	QM

Calibration Readings

---- End of Readings ----



DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Beacon Environmental Consultants LLC

Inspection Date: 06/06/19  
 Report Date: 6/6/2019  
 Abatement Level: 1.0  
 Report No. S#01665 - 06/06/19 09:51  
 Total Readings: 77  
 Job Started: 06/06/19 09:51  
 Job Finished: 06/06/19 11:46

1 Union Street  
 Brewer Maine

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm <sup>2</sup> )	Mode
Exterior Room 001 ice pl A									
058	A	Trim	Upper		D	Wood	Cream	1.8	QM
066	A	access door	Lft		D	Wood	Brown	2.5	QM
069	A	Shed	Lft door		D	Wood	Brown	2.6	QM
070	A	Shed	Lft Door casing		D	Wood	Brown	2.4	QM
061	A	Siding	Ctr		D	Wood	Cream	0.0	QM
065	A	access door	Ctr		D	Wood	Brown	2.6	QM
064	A	access door	Rgt		D	Wood	Brown	2.6	QM
056	A	Window	1 Rgt casing		D	Wood	Cream	0.0	QM
057	A	Window	1 Sill		D	Wood	Cream	0.0	QM
059	A	Window	Ctr Casing		D	Wood	Cream	0.0	QM
060	A	Window	Ctr Sill		D	Wood	Cream	0.0	QM
062	A	Door	Rgt --		D	Wood	Brown	2.1	QM
063	A	Door	Rgt Casing		D	Wood	Brown	2.2	QM
Exterior Room 002 ice pl B									
067	B	Siding	Lft		D	Wood	Cream	0.0	QM
068	B	Door	Lft --		D	Wood	Brown	1.0	QM
Interior Room 001 ICE PLANT									
007	1	Freezer#1	1 post		D	Wood	Gray	1.7	QM
008	1	Freezer#1	2 post		D	Wood	Gray	2.0	QM
009	1	Freezer#1	2 post		D	Wood	Yellow	1.7	QM
010	1	Freezer#1	3 post		D	Wood	Gray	1.0	QM
011	1	Freezer#1	3 post		D	Wood	Gray	1.5	QM
014	1	Freezer #2	1 post		D	Wood	blue	1.4	QM
015	1	Freezer #2	2 post		D	Wood	blue	0.4	QM
016	1	Freezer #2	3 post		D	Wood	blue	1.4	QM
017	1	Freezer #2	4 post		D	Wood	blue	1.6	QM
019	1	Freezer #3	1 post		I	Metal	blue	0.0	QM
020	1	Freezer #3	2 post		I	Metal	blue	0.0	QM
021	1	Freezer #3	3 post		I	Metal	blue	1.0	QM
044	1	hall	Upper Floor		D	Wood	Gray	0.1	QM
045	A	mechanical	Upper wall		D	Concrete	White	0.1	QM
031	A	office	Ctr wall		D	Wood	White	0.0	QM
033	1	office	Ctr Ceiling		D	Wood	White	-0.1	QM
034	1	office	Ctr door		D	Wood	Brown	-0.2	QM
035	1	hall	Ctr Floor		D	Wood	Gray	-0.2	QM
040	1	hall	Ctr Ceiling		D	Wood	White	0.0	QM
048	A	mechanical	Ctr Floor		D	Concrete	Gray	0.3	QM
022	A	Freezer #3	Rgt door		D	Wood	White	1.0	QM
023	A	Freezer #3	Rgt wall		D	Composite	White	-0.2	QM
029	A	Work shop	Rgt post		D	Metal	White	0.0	QM
030	A	Work shop	Rgt wall		D	Composite	White	-0.2	QM
041	B	hall	1 door		D	Wood	green	2.7	QM
042	B	hall	2 door		D	Wood	green	2.2	QM
038	B	hall	Ctr wall		D	Wood	Gray	-0.1	QM
039	B	hall	Ctr wall		D	Wood	White	-0.1	QM

054	C	mechanical	1	post	D	Wood	Gray	0.0	QM
055	C	mechanical	2	post	D	Wood	Gray	-0.1	QM
018	C	Freezer #2	Ctr	wall	D	Composite	White	0.1	QM
032	C	office	Ctr	wall	D	Wood	White	-0.1	QM
036	C	hall	Ctr	wall	D	Wood	White	0.0	QM
037	C	hall	Ctr	wall	D	Wood	Gray	-0.1	QM
047	C	mechanical	Ctr	wall	D	Wood	White	-0.2	QM
049	C	mechanical	Ctr	Floor	D	Concrete	Gray	-0.2	QM
050	C	mechanical	Ctr	Floor	D	Concrete	red	-0.1	QM
051	C	mechanical	Ctr	platform	D	Wood	Gray	0.0	QM
052	C	mechanical	Ctr	Ramp	D	Wood	Gray	0.0	QM
053	C	mechanical	Ctr	Stair tread	D	Wood	Gray	-0.2	QM
024	C	Freezer #3	Rgt	wall	D	Composite	White	-0.2	QM
012	D	Freezer#1	lower	Trim	D	Wood	Cream	0.0	QM
043	D	hall	1	door	D	Wood	green	1.7	QM
013	D	Freezer#1	Ctr	wall	D	Composite	White	0.1	QM
046	D	mechanical	Ctr	wall	D	Wood	White	-0.2	QM
025	D	Doc	Rgt	door	D	Wood	green	7.1	QM
026	D	Doc	Rgt	Door casing	D	Wood	green	8.2	QM
027	D	Doc	Rgt	Door jamb	D	Wood	green	8.1	QM
028	D	Doc	Rgt	post	D	Metal	White	-0.1	QM

Calibration Readings

001								0.9	TC
002								1.0	TC
003								0.9	TC
004								0.0	TC
005								-0.2	TC
006								0.0	TC
071								1.0	TC
072								1.0	TC
073								1.0	TC
074								0.0	TC
075								-0.1	TC
076								0.1	TC
077								0.0	TC

---- End of Readings ----

**RMD LPA-1, PCS Edition 5 Page  
1 of 4 Performance Characteristic Sheets**

**EFFECTIVE DATE:** October 25, 2006 **EDITION NO.:** 5

**MANUFACTURER AND MODEL:**

Make: *Radiation Monitoring Devices*

Model: *LPA-1*

Source: <sup>57</sup>Co

Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.

**FIELD OPERATION GUIDANCE**

**OPERATING PARAMETERS:**

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

**XRF CALIBRATION CHECK LIMITS:**

0.7 to 1.3 mg/cm<sup>2</sup> (inclusive)

**SUBSTRATE CORRECTION:**

For XRF results below 4.0 mg/cm<sup>2</sup>, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.

None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings

Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

**THRESHOLDS:**

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0
QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

RMD LPA-1, PCS Edition 5 Page 2 of 4

**BACKGROUND INFORMATION**

**EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

**OPERATING PARAMETERS:**

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.



### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest  $1.0 \text{ mg/cm}^2$  in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the  $1.02 \text{ mg/cm}^2$  film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest  $1.0 \text{ mg/cm}^2$  for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate.

The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to  $1.02 \text{ mg/cm}^2$  at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest  $1 \text{ mg/cm}^2$ . Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the  $1.02 \text{ mg/cm}^2$  NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1^{\text{st}} + 2^{\text{nd}} + 3^{\text{rd}} + 4^{\text{th}} + 5^{\text{th}} + 6^{\text{th}} \text{ Floor Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings. RMD LPA-1, PCS Edition 5 Page 3 of 4

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

### BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than  $4.0 \text{ mg/cm}^2$  lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than  $4.0 \text{ mg/cm}^2$  lead. Of these, one 30-second standard mode reading was less than  $1.0 \text{ mg/cm}^2$  and none of the quick mode readings were less than  $1.0 \text{ mg/cm}^2$ . The instrument that tested in July is representative of instruments sold or serviced after

June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model. RMD LPA-1, PCS Edition 5 Page 4 of 4

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm <sup>2</sup> )	PRECISION* (mg/cm <sup>2</sup> )
0.0 mg/cm <sup>2</sup>	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm <sup>2</sup>	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm <sup>2</sup>	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm <sup>2</sup>	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

\*Precision at 1 standard deviation.

**CLASSIFICATION RESULTS:**

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

**DOCUMENTATION:**

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, [www.hud.gov/offices/lead](http://www.hud.gov/offices/lead).

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.



**RMD LPA-1 XRF  
Calibration Check Results**

Company Name : **Community Concepts**      Inspector **Andrew Watson**  
 Company Address **240 Bates St**      License # **LR-0396**  
 Town, State, Zip : **Lewiston Maine**      Date : **6/6/2019**  
 Inspection Address **1 Union Street**  
                                  **Brewer Maine**

DHS Case#

XRF S/N : **1665**  
 XRF Model : **RMD LPA-1**

NIST SRM : **1.0**  
 Calibration Check Tolerance **Plus or minus 0.3 mg/cm2**

First Calibration Check:      Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
0.9	1.0	0.9	0.9	-0.07

Second Calibration Check:      Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
1.0	1.0	1.0	1.0	0.00

Calibration Check Tolerance: plus or minus 0.3 mg/cm2

First Calibration Check:      Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
0.0	-0.2	0.0	-0.1	-0.07

Second Calibration Check:      Calibration Start Time:

First Reading	Second Reading	Third Reading	First Average	Difference between Average
0.0	-0.1	0.1	-0.1	-0.10

If the difference of the calibration check average for the first NIST SRM film value is greater than the specified calibration check tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful calibration check test.

## Background & educational information for lead

### Health Effects of Lead Exposure

Lead is a soft metal, naturally occurring in the Earth's crust. It has been determined, however, that lead has no useful purpose in the human body, and acts as a toxin. It takes the place of essential minerals such as calcium, potassium, and iron, which are vital to the construction and repair of bones, organs and blood. Lead exposures are a major health concern, especially in young children under the age of six.

Children, due to their smaller body mass and higher metabolism, are affected by lead exposures much more severely than adults. They ingest lead through daily hand-to-mouth activities and may develop severe attention deficit disorders, irreversible brain injury, learning disabilities and aggressive behaviors. The symptoms of lead poisoning often mimic other afflictions such as flu, colic or general malaise. It is important to have young children's blood tested for lead burden.

### Sources of Lead Poisoning

Since lead is ingested by routine daily activities such as eating, playing and working, it is important to understand the sources of lead exposures. The most common places to find leads in household settings are interior and exterior paint, and contaminated dust or soil. Lead-based paint is most hazardous when it is chipping, peeling, cracking, or chalking; or applied to friction surfaces of components such as doors, windows, and floors. The abrasive action of painted surfaces rubbing together causes lead-containing paints to be ground into a fine dust. Lead dust can also be created from decaying vinyl mini blinds. Lead dust then settles on furniture, play area floors, and children's toys, where children are exposed during regular activities. Several other sources of lead in the home include lead dust brought into the home from occupational exposures, water pipes, fixtures and soldered joints; decorative china, "leaded" crystal, fishing lures and sinkers, firearms ammunition, wine bottles and cosmetics. Some hobbies may also contribute to lead contamination within the home. Exposures to all sources of lead should be minimized or eliminated.

### Methods to Reduce Exposure the Lead Hazards

The simplest and often most effective way to reduce lead exposures is through regular washing of hands, toys, and horizontal surfaces in the home with a liquid hand soap or dish soap and water. It is highly recommended that disposable cleaning materials be used to wash surfaces, so as not to re-contaminate them with a used mop or cloth.

Other ways of reducing lead hazards within the home include taking shoes off before entering living areas, letting water run prior to drinking or cooking, covering exposed soil with plant materials, and vacuuming with a High Efficiency Particulate Air (HEPA) filtered vacuum. For more information regarding lead poisoning and prevention, contact your local health department or Maine Childhood Lead Poisoning Prevention Program MCLPPP