Site Investigation Report

719 River Street Woonsocket, Rhode Island

City of Woonsocket

Woonsocket, Rhode Island

November 2021



317 Iron Horse Way Suite 204 Providence, RI 02908



November 9, 2021

Ms. Rachel Simpson
Senior Environmental Scientist
Office of Land Revitalization & Sustainable Materials Management
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, RI 02908

RE: Site Investigation Report

Plat 8 Lots 5, 35, 37 and 58

719 River Street, Woonsocket, Rhode Island

Dear Ms. Simpson:

The purpose of this letter is to provide you with the attached *Site Investigation Report* for the above-referenced site. Fuss & O'Neill, Inc. (Fuss & O'Neill) prepared this report on behalf of the City of Woonsocket (City) under the City's Brownfields Assessment Program funded by the United States Environmental Protection Agency (USEPA). Please contact the undersigned if you have any questions or require additional information regarding this report, or the project in general.

Sincerely,

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Patrick J. Dowling, CPG

Associate | Department Manager

/rlz

C:

Attachments: Site Investigation Report Checklist

Site Investigation Report

Mr. Kevin Proft, City of Woonsocket

California Connecticut

. . . .

Maine

Massachusetts

New Hampshire

Rhode Island

Vermont

Section 1.20 of the "Remediation Regulations" Site Investigation Report (SIR) Checklist

(The following information shall be completed and submitted with the SIR)

Contact Name: City of Woonsocket

Contact Address: 169 Main Street, Woonsocket, RI 02895

Contact Telephone: 401-762-6400

Site Name: 719 River Street

Site Address: 719 River Street, Woonsocket, Rhode Island 02895

OFFICE USE ONLY
SITE INVESTIGATION REPORT (SIR) SITE:
PROJECT CODE: SIR SUBMITTAL DATE:
CHECKLIST SUBMITTAL DATE:
DIRECTIONS: The box to the left of each item listed below is for the administrative review of the SIR submission and is for RIDEM USE ONLY . Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references may delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.
1.8.3(A)(1) List specific objectives of the SIR related to characterization of the Release, impacts of the Release and remedy.
Section 1.1 lists the specific objectives of the SIR.
1.8.3(A)(2) Include information reported in the Notification of Release. A copy of the Release notification form should be included in the SIR. Include information relating to short-term response, if applicable.
A Release Notification Form is included in Appendix F.
1.8.3(A)(3) Include documentation of any past incidents or Releases.
This information is provided in Section 2.6.
1.8.3(A)(4) Include list of prior property Owners and Operators, as well as sequencing of property transfers and time periods of occupancy. Available ownership and historical operations information is provided in Section 2.1 and Appendix A.
1.8.3(A)(5) Include previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of the Contaminated-Site.
This information is provided in Section 2.6.
1.8.3(A)(6) Include current uses and zoning of the Contaminated-Site, including brief statements of operations, processes employed, waste generated, Hazardous Materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are

those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.) Background information is summarized in Section 2.1. The objectives of the Site Investigation are included in Section 1.1 + 1.8.3(A)(7) Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map. Refer to Figure 1 for a Site location map 1.8.3(A)(8) Include a site plan, to scale, showing: **Buildings** Activities Structures North Arrow Wells UIC Systems, septic tanks, UST, piping and other underground structures Outdoor Hazardous Materials storage and handling areas Extent of paved areas Location of environmental samples previously taken with analytical results Waste management and disposal areas **Property Lines** Refer to Figure 2 for a Site Plan 1.8.3(A)(9) Include a general characterization of the property surrounding the area including, but not limited to: Location and distance to any surface water bodies within 500 ft of the site. Location and distance to any Environmentally Sensitive Areas within 500 ft of the site. Actual sources of potable water for all properties immediately abutting the site. Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site.

	Determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both.
	Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area.
7	This information is provided in Section 2.
	Include classifications of surface and ground water at and surrounding the site that could be apacted by a Release.
7	This information is provided in Sections 2.3 and 2.4.
1.8.3(A)(11)	Include a description of the contamination from the Release, including:
	Free liquids on the surface
	LNAPL and DNAPL
	Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives (reference Section 1.13)
	Impact to Environmentally Sensitive Areas
	Contamination of man-made structures
	Odors or stained soil
	Stressed vegetation
	Presence of excavated or stockpiled material and an estimate of its total volume
	Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
	List of Hazardous Substances at the site
	Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands.
	A description of the contamination of the on-site releases is described in Section 4 and Section 6.
1.8.3(A)(12)	Include the concentration gradients of Hazardous Substances throughout the site for each
	nedia impacted by the Release.
	oncentrations of hazardous substances in environmental media sampled uring Site Investigation activities are discussed in Section 4 and presented in
	ables 4 and 6.

1.8.3(A)(13	Include the methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (see Section 1.13).
	No investigation was conducted to determine background concentrations of compounds in soil.
1.8.3(A)(14	Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of Hazardous Substances throughout and away from the site, including but not limited to, where appropriate:
	Depth to GW
	Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration
	Characterization of bedrock
	Groundwater contours, flow rates and gradients throughout the site
	This information is included in Sections 2.2, 2.3, 4.2, 6.2,, Tables 3 &5 and Figure 3.
1.8.3(A)(15	Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site. Topography, surface water, and flooding potential at and near the site are
	discussed in Sections 2.2 and 2.4 and shown on Figure 2.
1.8.3(A)(16	6) Include the potential for Hazardous Substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.
1.8.3(A)(17	Volatilization potential of hazardous substances in environmental media is discussed in Section 6.1 and 6.2. () Include the potential for entrainment of Hazardous Substances from the site by wind or erosion actions.
	This information is discussed in Section 6.1.
1.8.3(A)(18	3) Include detailed protocols for all fate and transport models used in the Site Investigation.
	Fate and transport models were not prepared as part of this investigation.
1.8.3(A)(19	Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. (Be sure to include the samples locations and analytical results on a site figure). Sample collection is discussed in Section 3 and the locations of all samples collected are depicted on Figure 2. The requested laboratory analyses are included in Tables 1-4 and 6-7.
1.8.3(A)(20	Include construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of the Groundwater Quality Rules. Construction, installation, and development of wells by Fuss & O'Neill are discussed in Section 3.2.4. The soil boring logs, and well completion reports are provided in Appendix B.
1.8.3(A)(21) Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.
	No wastes were derived during the investigation. Soil cuttings and purge water generated during sampling were retained on-site.

1.8.3(A)(22) Include a quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques. A discussion of sampling techniques is included in Section 3. A discussion of data validation and usability is included in Section 5. Laboratory quality assurance information is provided in Appendix C, D & E.
1.8.3(A)(23) Include any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the site.
No additional information has been requested at this time.
1.8.4 Include Remedial Alternatives. The Site Investigation Report shall contain a minimum of TWO (2) remedial alternatives other than no action/natural attenuation alternative, unless this requirement is waived by the Department. It should be clear which of these alternatives is most preferable. All alternatives shall be supported by relevant data contained in the Site Investigation Report and consistent with the current and reasonably forseeable land usage, and documentation of the following:
 Compliance with Section 1.9 (RISK MANGEMENT);
 Technical feasibility of the preferred remedial alternative;
 Compliance with federal, state and local laws or other public concerns; and
 The ability of the Performing Party to perform the preferred remedial alternative.
A discussion of remedial alternatives is included in Section 8.
1.8.5 Certification Requirements: The Site Investigation Report and all associated progress reports shall include the following statements signed by an authorized representative of the party specified:
A statement signed by an authorized representative of the Person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and
A statement signed by the Performing Party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the Release and contains all known facts surrounding the Release to the best of their knowledge.
The applicable certification requirements are included in Section 9.
1.8.6 Progress Reports: If the Site Investigation is not complete, include a schedule for the submission of periodic progress reports on the status of the investigation and interim reports on any milestones achieved in the project. The Site Investigation is complete.
Public Involvement and Notice: Be prepared to implement public notice requirements per Sections 1.8.7 and 1.8.9 of the Remediation Regulations when the Department deems the Site Investigation Report to be complete.
Indicate if the site falls within an Environmental Justice (EJ) area and, if applicable, include all EJ public notice documentation issued, and the list of recipients.
Public notice will be conducted when the Site Investigation is deemed complete by RIDEM



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1 Introduction

1.1 Objectives

The City of Woonsocket (City) retained Fuss & O'Neill, Inc. (Fuss & O'Neill) to conduct a Site Investigation at 719 River Street in the City of Woonsocket, Rhode Island, Providence County (the Site). The overall purpose of the Site Investigation Report (SIR) documented herein was to compile environmental information regarding the Site through research, inspections, and field work. More specifically, the goal of the SIR was to evaluate for the absence or presence of contaminants in environmental media at the Site to fulfill requirements of *Section 1.8* of the Rhode Island Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations; 250-RICR-140-30-1).

The Site Investigation documented herein was conducted under the City's Community Wide Brownfields Assessment Program, which is a grant-funded program by the United States Environmental Protection Agency (USEPA).

2 Background

2.1 Site Description, History, and Foreseeable Future Use

The "Site" or "subject site", defined herein as 719 River Street, consists of a 5.021-acre assemblage of parcels located at Assessor's Plat 8, Lots 5, 35, 37 and 58, Woonsocket, Rhode Island. Lot 37 is improved with a two-story, approximately 88,059 square-foot mill building (Building 1) constructed in 1900. Lot 5 is improved with a one-story, approximately 3,025 square-foot industrial building (Building 2) constructed in 1900. Lots 58 and 35 are undeveloped and consist of vegetation and paved areas. Copies of the property description cards available at the City Tax Assessor's office are attached as *Appendix A*. A map consisting of a portion of a United States Geological Survey (USGS) topographic map showing the Site location is provided as *Figure 1*, and a Site plan is provided as *Figure 2*.

The property has been abandoned by the last owner of record, which according to City records, has been Dorado Properties LLC since 1995. However, in 2017, the City of Woonsocket, as the primary creditor of the property, petitioned the RI Superior Court to appoint a Special Master for the site. Since 2017, the Special Master working in conjunction with the City have legally taken control of the property, and have been proceeding with the resolution of outstanding legal and physical issues at the site, with a goal of clean up and beneficial reuse.

Historically, the Site has been occupied by several textile mills, an auto repair facility, and a trucking company. Lot 58 was developed with residential buildings until approximately 1981. Sanborn maps, reviewed as part of an October 2019 *Phase I Environmental Site Assessment* (ESA) prepared by BETA, indicated an auto repair facility with a 150-gallon buried tank was located in the southeast portion of the Site and several additional USTs were formerly on the Site. Based on historical aerial



photographs, several buildings at the Site have been razed, the Blackstone River was re-routed, and Lot 35 was filled in between 1919 and 1943 and between 1954 and 1964.

According to the October 2019 *Phase I ESA*, the buildings are served by municipal water and sewer and are not currently heated. Historically, the Building 2 was heated by coal or wood and Building 1 was heated by natural gas.

2.1.1 Foreseeable Future Use

We understand that the City intendeds to raze the existing buildings and initiate remediation activities, pending the acquisition of suitable grant funding, so that the Site can be redeveloped and returned to productive use. The City plans to use the development of the Site as a catalyst to help modernize and increase the aesthetic value of the River Street corridor, which is a linear strip of industrial factories, mills, and auto repairs facilities along the Blackstone River.

2.1.2 Environmental Justice Focus Area

According to RIDEM Environmental Resource mapping, the subject site is not located within an *Environmental Justice Focus Area*.

2.2 Geographic and Physiographic Setting

The topography of the Site is generally flat with a slight slope to the east towards the Blackstone River. The regional topography gradually slopes down to the north and east towards the Blackstone River (USGS, 2018).

Surficial material at the Site was mapped as Udorthents-Urban Land Complex, which is described as human transported material (USDA, 2010).

Bedrock beneath the Site is mapped as Esmond-Dedham sub terrane formation which consists of conglomerate, sandstone, and shale. (Hermes, et al, 1994). Bedrock outcrops were not observed at the Site during soil boring investigations conducted at the Site in June 2021 by Fuss & O'Neill.

2.3 Groundwater

The groundwater beneath the Site was classified by RIDEM as GB (RIDEM, 2019). GB groundwater is designated to not be suitable for public or private drinking water use. GB groundwater areas are typically located beneath highly urbanized areas, permanent waste disposal areas and the area immediately surrounding the permanent waste disposal areas (RIDEM, 2018). According to RIDEM environmental resource mapping, the nearest GA groundwater is located approximately 0.20 miles west of the Site.

Based on USGS mapping, field observations, and groundwater gauging, the groundwater flow direction was calculated to flow to the east towards the Blackstone River, as further discussed in *Section 4.2*.



Groundwater depths in five monitoring wells gauged by Fuss & O'Neill during the July and September 2021 Site Investigation ranged from approximately 8 to 16 feet below grade (fbg).

The Groundwater Classification & Wellhead Protection Area Map of the Woonsocket, RI quadrangle, available from RIDEM, showed no wellhead protection areas (WHPAs) within a one-half mile radius of the subject site.

2.4 Surface Water

The nearest surface water body, the Blackstone River, is located adjacent to the western boundary of the Site (USGS, 2018). The Blackstone River was classified by RIDEM as Class B1 (RIDEM, 2010c). Class B1 waters are designated for primary and secondary contact recreational activities and fish and wildlife habitat. They should be suitable for compatible industrial processes and cooling, hydropower, aquacultural uses, navigation, and irrigation and other agricultural uses. These waters should have good aesthetic value. Primary contact recreational activities may be impacted due to pathogens from approved wastewater discharges. However, all Class B criteria must be met.

Additionally, the Blackstone River was identified in the State of Rhode Island 2018-2020 303(d) List of Impaired Waters (RIDEM, 2021) as having been impacted due to cadmium, iron, lead, non-native aquatic plants, dissolved oxygen, total phosphorous, mercury and polychlorinated biphenyls (PCB) in fish tissue, enterococcus and fecal coliform.

Based on the RIDEM Environmental Resource Map, a marsh/wet meadow emergent wetland is located within Lots 5 and 35. Note that Fuss & O'Neill did not independently determine wetland boundaries or the presence of wetlands as part of this assessment.

Based on the Federal Emergency Management Agency (FEMA) Flood Map 44007C0069G, the eastern portion of the Site is located within a Special Flood Hazard Area defined as being within the 100-year flood plain. The western, eastern and southern portions of the Site are located within the 500-year flood plain.

2.5 Potential Receptors

The activities conducted by individuals working at, visiting, or trespassing at the Site should be evaluated under current and foreseeable Site uses to determine whether compounds present in environmental media at the Site pose a risk to those individuals. Additionally, construction workers associated with redevelopment and future Site users should be considered potential receptors. Furthermore, the adjacent Blackstone River as further described in *Section 2.4*, should also be considered potential receptor.



2.6 Previous Environmental Investigations

2.6.1 October 2019 Phase I ESA

A *Phase I ESA* was conducted for the Site in October 2019 by BETA as part of a Target Brownfield Assessment funded by RIDEM. The *Phase I ESA* identified the following Recognized Environmental Conditions (RECs) associated with the Site:

- **REC #1: Historic Use:** The Site was historically used by textile mills, an auto repair facility, and a trucking operation. The database search listed one of the former textile mills as a generator of hazardous waste.
- **REC #2:** Vehicles and Trucks: BETA observed oil and/or hazardous materials (OHM) staining near and under many of the vehicles and trucks in the northern, western, and central portions of the Site. The vehicles and trucks were located on paved and unpaved areas.
- REC #3: Underground Storage Tanks (USTs): Historic records reviewed as part of the Phase I ESA identified at least two USTs and potentially an additional five USTs that exist at the Site.
- **REC #4: Solid Waste/Debris/Fill:** Solid waste and debris was observed at the Site during the Phase I ESA, along with evidence of fill.

In addition to these RECs, BETA identified the potential for the site buildings and solid waste to contain hazardous building materials including potential Asbestos Containing Materials (ACM), lead paint, and mercury/polychlorinated biphenyls (PCB) containing electrical components.

2.7 Surrounding Land Use

According to the October 2019 *Phase I ESA*, Sanborn maps indicated the area was mostly developed for industrial use prior to 1900. According to the 1892 Sanborn, the property located across River Street was occupied by Woonsocket Worsted Company, a textile company. By 1898, Glenark Knitting Company occupied the property southwest of the Site. By 1911, both properties across River Street were owned by the Woonsocket Worsted Company. By 1955, the property was owned by Royal Robes Inc., a robe manufacturer. The surrounding northern and northeastern areas were established residential neighborhoods by 1939.

Interstate Towing Corporation, located to the north of the Site, uses the northern portion of the Site for storage of vehicles. According to the October 2019 *Phase I ESA*, Global Truck & Auto Repair uses the western and central portion of the Site for the storage of trucks.



2.8 Compounds of Concern

Based upon the known historical uses of the Site and the results of the previous investigations discussed in *Section 2.6*, the following potential compounds of concern were identified for the *SIR*.

Soil:

- Volatile Organic Compounds (VOC) via USEPA Method 8260, including preservation by Method 5035
- Polycyclic aromatic hydrocarbons (PAH) by USEPA Method 8270
- Priority Pollutant 13 Metals (PP13) by USEPA Methods 6010/7471
- Toxicity Characteristic Leaching Procedure (TCLP) metals via USEPA Method 1311 for each of the individual metals that may exceed hazardous waste thresholds
- TPH via USEPA Method 8100/8015
- PCBs via USEPA Method 8082

Groundwater:

VOC via USEPA Method 8260

3 Site Investigation

3.1 Site Investigation Field Activities

Based on the findings of the October 2019 *Phase I ESA*, Fuss & O'Neill was retained by the City to implement a Phase II ESA/Site Investigation scope of work to support completion of a *SIR* in accordance with the RIDEM *Remediation Regulations* and evaluate the general environmental quality of the Site.

This work was performed under the City's USEPA-funded Woonsocket Brownfields Assessment Program. As such, Site Investigation activities were proposed in a Site-Specific Quality Assurance Project Plan Addendum (Site-Specific QAPP Addendum) prepared by Fuss & O'Neill in December 2020 and approved by USEPA on December 11, 2020, and RIDEM on December 14, 2020.

Fuss & O'Neill implemented Site Investigation activities in June, July, and September 2021. Data was collected at select locations proximal to RECs identified at the subject site during the October 2019 *Phase I ESA* prepared by BETA Group, Inc. Investigation activities are summarized below in the following sections.

3.1.1 Ground Penetrating Radar (GPR)

On June 23, 2021, Ground Penetration Radar Systems (GPRS) LLC, conducted a ground-penetrating radar (GPR) survey at the Site. The objective of the GPR survey was to determine if a USTs were present on-Site and to further assess utilities. Additionally, the areas surrounding sixteen proposed boring locations were scanned to investigate the potential for unknown subsurface utilities or anomalies.



Based on the survey results, there was evidence of five potential USTs located throughout the Site. For the most part, the actual volume of the USTs is unknown. However, approximate volumes of the USTs were estimated based on the approximate dimensions of the subsurface anomalies identified at each location by the GPR survey. The results of the GPR survey are summarized below:

- Two potential USTs located north of Building 1: Evidence of an approximately 20,000- to 30,000-gallon UST and an approximately 10,000- to-12,000-gallon UST was observed north of Building 1. In addition, fill ports, vent pipes, and an access hatch were observed within the boundary of the anomalies.
- Potential UST located south of Building 1: Evidence of an approximately 150- to 300-gallon UST was observed south of Building 1 in the vicinity of a former auto repair facility. According to the 1950 to 1970 Sanborn mapping, a 150-gallon tank was identified at this location.
- Potential UST located north of Building 2: Evidence of an approximately 1,000- to 1,500-gallon UST was observed north of Building 2. According to the 1950 to 1970 Sanborn mapping, a gasoline tank was identified north of Building 2.
- Potential UST located on Lot 5: Evidence of an approximately 4,000- to 5,000-gallon UST
 was located in the southern portion of Lot 5 within a concrete foundation. Based on historic
 aerials and Sanborn mapping, the UST was located within a former auto garage.

3.1.2 Outdoor Soil Borings and Soil Sampling

On June 28, 29, and 30, 2021, Fuss & O'Neill performed a subsurface soil sampling and characterization program. The investigation consisted of seventeen (17) direct-push (i.e. Geoprobe®) soil borings identified as SB-1, MW-2, SB-3, SB-4, SB-5, MW-6, SB-7, MW-8, MW-9, SB-10, SB-11, SB-12, SB-13, MW-14, MW-15, SB-16, and SB-17 were advanced to a maximum depth of approximately 20 fbg by GeoLogic Earth Exploration, Inc. (GeoLogic). Soil boring locations were selected based on the results of the previous investigations discussed in *Section 2.6* and are depicted on *Figure 2*.

During the June 2021 drilling event, evidence of subsurface petroleum was observed in the soil boring located in the vicinity of the two USTs north of Building 1. Based on the identification of a potential petroleum release, Fuss & O'Neill performed an additional subsurface soil characterization program on September 9, 2021 to further delineate the release. The September 2021 investigation consisted of ten direct-push soil borings, identified as SB-18, SB-19, SB-20, SB-21, SB-22, SB-23, SB-24, SB-25, SB-26, and SB-27. Additional soil boring locations are depicted on *Figure 2*.

Soil was continuously recovered in five-foot dedicated Macro Core MC5 Liners, and logs documenting soil conditions were recorded by Fuss & O'Neill personnel. The recovered soil at each boring was characterized for texture, color, grain type, and moisture and was field screened for VOC using a Phocheck Tiger ® photoionization detector (PID). The PID was calibrated prior to use with 100 parts per million by volume isobutylene calibration gas.



Twenty-six primary soil samples plus two duplicate quality control samples were collected from the soil borings for laboratory analysis during the June 2021 soil boring mobilization. The soil samples were submitted to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts. A summary of soil sampling activities, including the requested analyses, is included in *Table 1* below. No additional soil samples were collected for laboratory analysis during the soil boring remobilization in September, 2021.



Table 1
Summary of Outdoor Soil Sampling Activities

	Summary of Outdoor soil sampling Activities						
Location	Date	Boring Depth (fbg)	Sample Depth (fbg)	Sample Number	Analyses		
SB-1		20	0.0-2.0	0628-01			
MW-2		15	0.0-2.0	0628-02	VOC, PAH, PP-		
CD 2		20	0.0-2.0	0628-03	13 Metals, TPH,		
SB-3		20	5.0-7.0	0628-04	PCBs		
			0.0-2.0	0628-05			
SB-4		20	8.0-10	0628-06	VOC, PAH, PP- 13 Metals, TPH, PCBs, TCLP Lead		
	6/28/2021		0.0-2.0	0628-07	VOC, PAH, PP-		
SB-5		20	10-12	0628-08	13 Metals, TPH, PCBs		
MW-6		20	0.0-2.0	0628-09	VOC, PAH, PP- 13 Metals, TPH, PCBs, TCLP Lead		
			0.0-2.0	0628-10	VOC, PAH, PP-		
SB-7		20	8.0-10	0628-11	13 Metals, TPH,		
			8.0-10*	0628-12	PCBs		
MW-8		20	0.0-2.0	0629-14	VOC, PAH, PP- 13 Metals, TPH, PCBs, TCLP Lead, TCLP Cadmium		
MW-9		20	0.0-2.0	0629-15			
SB-10	6/29/2021	20	0.0-2.0	0629-16			
CD 11		20	0.0-2.0	0629-17			
SB-11		20	5.0-7.0	0629-18			
SB-12		20	0.0-2.0	0629-19	_		
3D-12		۷.0	12-14	0629-20	VOC, PAH, PP-		
SB-13		20	0.0-2.0	0629-21	13 Metals, TPH,		
MW-14		20	0.0-2.0	0630-23	PCBs		
1,1,1,1,1,1			10-12	0630-24	_		
MW-15	W-15 6/30/2021 20	20	0.0-2.0	0630-25	_		
	~, ~ ~ , ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		8.0-10	0630-26	_		
SB-16		20	0.0-3.0	0630-27	_		
0.00 10			0.0-3.0*	0630-28			

Notes: Sample ID - Only the last six digits of the sample identification number are listed

^{*:} Duplicate Sample



3.1.3 Monitoring Well Installation and Development

During the June 2021 drilling event, six two-inch diameter polyvinyl chloride (PVC) groundwater monitoring wells were installed by GeoLogic at soil borings MW-2, MW-6, MW-8, MW-9, MW-14, and MW-15.

On July 8, 2021, the monitoring wells were developed by Fuss & O'Neill personnel by vigorously agitating the water in the well to mobilize and remove fine particulate materials (i.e. silt, clay, and organic material) from the well and surrounding sand filter. A peristaltic pump was then used to purge approximately two to three well-volumes of groundwater and sediment from the well. The objective of the development process was to improve the hydraulic connection between the monitoring well and the surrounding aquifer.

Monitoring well MW-2, which had been installed to a depth of 20 feet below grade after observing inferred saturated soil at a depth of approximately 12 feet below grade during soil boring advancement, was observed to be dry on July 8, 2021, and therefore was not developed. On September 9, 2021, groundwater was gauged at monitoring well MW-2 at approximately 8 feet below grade and therefore was developed at that time.

Non-aqueous phase liquid (NAPL) was observed at approximately 15.80 feet below grade in monitoring well MW-8 and therefore, that well was not developed.

3.1.4 Groundwater Sampling

On July 15, 2021, Fuss & O'Neill personnel mobilized to the Site and collected groundwater samples from the newly installed monitoring wells using industry-standard low-flow methods. The sampling procedure consisted of slowly purging groundwater from each well using a peristaltic pump, until physical and chemical groundwater parameters (temperature, pH, dissolved oxygen, specific conductivity, and oxidation-reduction potential) stabilized. Four groundwater samples plus one duplicate quality control sample were submitted to Con-Test for analysis of VOC. One trip blank was also analyzed for VOC for quality control purposes.

Monitoring well MW-2, which had been installed to a depth of 20 feet below grade after observing saturated soil at a depth of approximately 8 feet below grade during soil boring advancement, was observed to be dry on July 8, 2021, and therefore not sampled. On September 9, 2021, groundwater was gauged at monitoring well MW-2 at approximately 8 feet below grade and was therefore sampled for VOC, at that time.

During the July 2021 groundwater monitoring event, Fuss & O'Neill personnel measured approximately 4.5 feet of NAPL, consistent in appearance with No. 6 fuel oil, in monitoring well MW-8. Monitoring well MW-8 is located downgradient of the two potential USTs located north of Building 1. Due to the observed NAPL, groundwater from monitoring well MW-8 was not sampled.



A summary of the monitoring well and groundwater sampling activities is included in *Table 3* below:

Table 3
Summary of Monitoring Well and Groundwater Sampling Activities

Location	Screened Interval (fbg)	Date Sampled	Sample Number	Analysis	Depth to Groundwater (fbg) ^[1]
MW-2	5-15	9/9/2021	0909-02	VOC	8.25
MW-6	10-20	7/15/2021	0715-02 0715-03*		14.67
MW-9	10-20		0715-04		14.95
MW-15	10-20		0715-05		14.60
MW-14	10-20		0715-06		15.68

Notes: Sample ID: Only the last six digits of the sample identification number are listed.

[1]: Measured from the top of steel (TPS) well casing

3.1.5 Hazardous Building Materials Assessment

On January 13 and 14, 2021, Fuss & O'Neill personnel conducted a hazardous building materials assessment which included an asbestos inspection, a lead-based paint screening and a fluorescent light ballast and mercury-containing equipment inventory. The results of this investigation are outside of the jurisdiction of the RIDEM Remediation Regulations and the Office of Land Revitalization and Sustainable Materials Management. However, a copy of the resulting February 2021 Hazardous Building Materials Assessment Report is included as Appendix B, for reference.

4 Investigation Results

4.1 Outdoor Soil Sampling Characterization and Analytical Results

During the July and September 2021 drilling events, soil throughout the subject site was observed to consist of up to 15 feet of fill over fine to coarse sand. The fill material generally consisted of sand and included evidence of brick, coal, and ash. Deeper soil generally consisted of fine- to coarse-sand with silt and gravel. Refusal was encountered at approximately 23.5 fbg in SB-23 and 24.5 fbg in SB-20. Refusal was not encountered at any other soil boring. Soil boring logs and monitoring well completion reports from the July and September 2021 drilling events are included as *Appendix C*.

^{*:} Duplicate Sample



Black staining, odors, and evidence of petroleum were identified at soil borings SB-5, SB-7, MW-8, SB-17, SB-18, SB-20, SB- 23, SB-25, and SB-27 from approximately 10 to 20 fbg. Soil borings identified to contain evidence of petroleum were located north of Building 1, proximal to the location of the two USTs.

Field screening with the PID indicated total VOC concentrations ranging between 0.0 and 145 ppmv. The highest readings were observed at soil borings identified to contain evidence of petroleum.

With the exception of the observed fill material and identified area of subsurface petroleum, no staining, odors, or other evidence of a release of oil and/or hazardous materials was observed in any of the other soil borings.

Laboratory analytical results for the soil samples collected from the Site are summarized in the attached *Table 4*, and copies of the full laboratory analytical reports are included in *Appendix D*. Generally, the laboratory results indicated the following:

- Several VOC were detected at levels above the laboratory reporting limits in three of the twenty-six soil samples.
- Several PAH were detected at levels above the laboratory reporting limits in twenty-one soil samples.
- Metals were detected at levels above the laboratory reporting limits in all the twenty-six soil samples.
- TPH were detected at levels above the laboratory reporting limits in all but one of the twenty-six soil samples.

4.2 Groundwater Analytical Results

Groundwater elevations were gauged on July 8, 2021, prior to the commencement of groundwater development at the Site. The depth to groundwater was measured throughout the Site at depths of approximately seven to eleven fbg. To determine the relative gradient of groundwater flow beneath the site, groundwater elevations were measured relative to a task-specific benchmark with an assumed elevation of 100 feet above mean sea level. These measurements are included in *Table 4*. Groundwater equipotential contours generated from field data collected on July 8, 2021, are depicted on *Figure 3*, which indicate the direction of groundwater flow at the Site to the east, toward the Blackstone River.

One groundwater sample was collected from monitoring wells MW-2, MW-6, MW-9, MW-14, and MW-15, and one duplicate quality control sample was collected from monitoring well MW-6. The groundwater samples were submitted to Con-Test for analysis of VOC.

Groundwater sampling results are summarized in *Table 5*, and the Con-Test analytical data reports are included in *Appendix E*. No VOC were detected at levels above the laboratory reporting limit in the groundwater samples.



4.3 Hazardous Building Materials

A summary of the hazardous building materials analytical data is included in the February 2021 *Hazardous Building Materials Assessment Report*, which is provided as *Appendix B*.

5 Data Verification and Usability

5.1 Data Verification and Usability

Fuss & O'Neill conducted modified Tier II data verification of the field and analytical data resulting from the assessment documented herein. Modified Tier II verification narratives as well as modified Tier II data validation checklists are attached to each laboratory analytical report in *Appendices D and E*.

Soil and groundwater samples were collected in general conformance with the approved *Generic QAPP*, *QAPP Addendum* (*Revision 1.0*). All soil boring and samples specified in the *QAPP Addendum* were completed.

During the sampling events, 28 primary samples plus quality control samples were collected and submitted for laboratory analysis: 24 primary soil samples plus three trip blank samples and two duplicate sample, and four primary groundwater samples plus one trip blank sample and one duplicate sample. Requested soil and groundwater analytical parameters are included in *Section 2.8* above.

Three trip blanks were submitted for analysis for this investigation during the June 2021 soil sampling investigations, and one trip blank was submitted during the August 2021 groundwater sampling event. All submitted trip blanks were analyzed for VOC. No compounds were detected in the trip blanks at concentrations exceeding the laboratory reporting limits. Dedicated equipment (e.g., VOC core samples, sampling tubing, Geoprobe sleeves, gloved hand, etc.) was used for samples collected at the Site. Therefore, no equipment blanks were collected.

Duplicate analytical results are summarized in the attached data tables and included in *Appendices D* and *E*. Duplicate samples were collected at a frequency of one duplicate per 20 primary samples per matrix. Two duplicate samples for soil and one duplicate sample for groundwater were collected and submitted for the same analytical parameters as the primary samples.

Calculated relative percent difference (RPDs) of the analytical results for the two primary-duplicate pair of soil samples indicated RPDs generally greater than 30% for the detected analytes, including TPH, PAHs and metals. The primary and duplicate soil samples were collected from within fill material which were documented to contain anthropogenic materials, including coal and brick. Fill materials are typically significant sources of PAH, petroleum, and metals and the elevated RPDs may, therefore, be attributed to the heterogeneity of the fill material.

RPDs were not calculated for groundwater because all reported concentrations were below laboratory reporting limits.



Several non-conformances were documented in the case narrative summaries included in the laboratory analytical reports in *Appendices D* and *E*. In general, the non-conformances reported by Con-Test were not expected to affect the usability of the data because conclusions regarding compliance or non-compliance of the affected samples were with the applicable regulatory criteria were able to be made with no affect from a potential low or high bias.

In summary, the Site Investigation documented herein was conducted in accordance with the *Generic QAPP* and Site-Specific *QAPP Addendum*. The overall analytical data set reported for soil and groundwater samples collected during the assessment activities were usable for the intended purpose of evaluating the environmental condition of the Site and compliance with applicable regulatory criteria.

5.2 Applicable Regulatory Criteria

Based upon the current and foreseeable use of the Site, the numerical analytical results were compared against the following RIDEM Method 1 criteria as promulgated in the RIDEM Remediation Regulations:

Soil:

- Residential Direct Exposure Criteria (R-DEC)
 - O While the Site has historically been utilized for industrial/commercial activities, the R-DEC apply to the Site to evaluate whether a reportable release or regulated concentrations of oil or hazardous materials (OHM), jurisdictional under the RIDEM Remediation Regulations, are present. The R-DEC will apply unless an Environmental Land Usage Restriction limiting the usage of the site to Industrial/Commercial uses is recorded in the land evidence records of Woonsocket.
- Industrial/Commercial Direct Exposure Criteria (I/C-DEC)
 - The Site has historically been utilized for industrial purposes. Therefore, soil concentrations in *Table 4* were also compared to the RIDEM I/C- DEC.
- GB Leachability Criteria (GB-LC)
 - Due to the classification of groundwater at the site as GB, the concentrations of compounds of concern detected in soil samples were compared to the GB-LC.

Groundwater:

- GB Groundwater Objectives (GB-GO)
 - O The groundwater analytical results were compared against the RIDEM Method 1 GB-GO as promulgated in the RIDEM Remediation Regulations, which are protective against migration of hazardous substances into indoor air via volatilization.

Laboratory reporting limits of several PAH in the primary and duplicate soil samples collected from soil boring SB-7 and in the soil sample collected from soil boring SB-5 were above the R-DEC and/or the I-C-DEC. The usability of the data was not impacted because petroleum was detected in the soil samples at concentrations above the GB-LC, which constitutes a release. Laboratory reporting limits for the remaining soil and groundwater samples were low enough to allow direct comparison to these criteria.



In general, the non-conformances reported by Con-Test did not affect the usability of the data because conclusions regarding compliance or non-compliance of the affected samples, with respect to applicable regulatory criteria, were able to be made with no discernible impact from a potential low or high bias.

6 Data Analysis and Risk Characterization

6.1 Soil Data Analysis

Laboratory analytical results for the soil samples collected from the Site are summarized in the attached *Table 3*. These results were compared to the applicable regulatory criteria discussed above in *Section 5.2*. Copies of the full laboratory analytical reports are included in *Appendix C*. Exceedances of the applicable RIDEM Method 1 regulatory criteria are summarized in *Table 6* below.



Table 7
Summary of Soil Samples with Applicable Regulatory Exceedances

Sample Location	Depth (fbg)	Applicable Regulatory Exceedances		
	0.0-2.0	R-DEC: Various PAH, TPH		
SB-1		I/C-DEC: Benzo[a]anthracene, Benzo(a)pyrene,		
		Benzo[b]fluoranthene		
	0.0-2.0	R-DEC: Various PAH		
SB-4	0.0-2.0	I/C-DEC: Benzo[a]pyrene		
	8.0-10	R-DEC: Lead		
	0.0-2.0	R-DEC: Benzo[a]pyrene, Chrysene		
SB-5	10-12	R-DEC: Various PAH, TPH		
3D-3		I/C-DEC: Benzo[a]pyrene, TPH		
		GB-LC: TPH		
MW-6	0.0-2.0	R-DEC: Lead, Arsenic, Chrysene		
IVI W -0		I/C-DEC: Arsenic		
	0.0-2.0	R-DEC: Various PAH, Arsenic, Lead		
		I/C-DEC: Arsenic, Lead, Benzo[a]pyrene		
SB-7	8.0-10	R-DEC: Various PAH, TPH		
SD-/		I/C-DEC: Benzo[a]pyrene, TPH		
		GB-LC: TPH		
	8.0-10	R-DEC: Various PAH, TPH		
		I/C-DEC: Benzo[a]pyrene, TPH		
		GB-LC: TPH		
MW-8	0.0-2.0	R-DEC: Lead, Arsenic, Various PAH, TPH		
1VI VV -0		I/C-DEC: Arsenic, Benzo[a]pyrene		
SB-10	0.0-2.0	R-DEC: Arsenic, TPH		
3D-10		I/C-DEC: Arsenic		
	0.0-2.0	R-DEC: Benzo[a]pyrene, Chrysene, Arsenic		
SB-12		I/C-DEC: Arsenic		
	12-14	I/C-DEC: Arsenic		
CD 12	0.0-2.0	R-DEC: Various PAH		
SB-13		I/C-DEC: Benzo[a]pyrene		
	0.0-2.0	R-DEC: Various PAH		
MW-14		I/C-DEC: Benzo[a]pyrene		
	10-12	R-DEC: Benzo[a]pyrene, Chrysene		
	0.0-2.0	R-DEC: Benzo[a]pyrene, Chrysene		
MW-15	8.0-10	R-DEC: Arsenic		
		I/C-DEC: Arsenic		

Notes: SB: soil boring; MW: monitoring well; fbg: feet below grade



Based on the exceedances of the regulatory criteria, as indicted in *Table 6*, the following release to soil was identified at the Site:

- Site-Wide soil containing PAH and metals: Based on observations during soil boring advancement, urban fill material was observed at locations throughout the Site. Samples of urban fill material containing brick, coal, and ash that were collected throughout the Site contained PAH at concentrations above the R-DEC and I/C-DEC. Arsenic was detected at concentrations above the I/C-DEC in seven soil samples located throughout the Site. Lead was detected above the R-DEC and/or I/C-DEC in the soil samples collected from the fill layers of soil borings SB-4, MW-6 and MW-8 and SB-7, located within the vicinity of the two on-site Buildings. The primary risk posed by these compounds in soil consist of direct exposure via ingestion or inhalation of dust.
- Soil Containing Petroleum north of Building 1: Petroleum was detected at concentrations above the GB-LC in the soil samples collected above the groundwater table from soil borings SB-5 and SB-7 located in the vicinity of two potential USTs, north of Building 1. During the June and September 2021 field activities, elevated PID readings and visual/olfactory evidence of a petroleum release were observed in soil borings SB-5, SB-7, MW-8, SB-17, SB-18, SB-20, SB-23, SB-25, and SB-27 from approximately 10 to 20 fbg. The petroleum contaminated soil was identified just above the groundwater table, which was gauged at approximately 12 fbg in each boring. No elevated PID readings or evidence of a petroleum was observed from the ground surface to 10 fbg or in the native soil observed at approximately 18 to 22 fbg. In addition, approximately 4.5 feet of heavy NAPL, consistent in appearance with No. 6 fuel oil, was observed in monitoring well MW-8 during the July 2021 groundwater sampling event. Based on field observations and analytical data, a release of petroleum to soil is believed to have originated from a point source release from a UST(s) located north of Building 1.

Shallow soil Containing TPH central portion of the Site: Petroleum was detected above the R-DEC in the soil samples collected from the fill layers of soil borings SB-1, MW-8 and SB-10. During this investigation, several vehicles and trucks were observed to be in poor conditions with staining observed near and under the vehicles. In addition, the northern portion of the Site was historically utilized as parking for a towing and trucking company. The shallow location of the samples and the absence of field evidence of a petroleum release suggests that the TPH in soil may be attributed to the fill material and/or isolated surficial petroleum releases current and historical vehicle storage operations.

The Site is proposed to be redeveloped, potentially including a mix of potential uses. Therefore, the potential for entrainment of hazardous substances from the Site by wind or erosion after redevelopment is not considered to be significant. However, direct exposure to site soil prior to, during, or subsequent to redevelopment activities requires management.

The presence of metals, PAH, and petroleum in soil at concentrations greater than the R-DEC, I/C-DEC and/or GB-LC constitute a reportable condition under the RIDEM Remediation Regulations.

Therefore, a Hazardous Material Release Notification Form was prepared and is included in Appendix F.

Remedial alternatives were developed for the Site as part of this SIR and are included below in Section 8.



6.2 Groundwater Data Analysis

Laboratory analytical results for the groundwater samples collected from the Site are summarized in the attached *Table 5*, and a copy of the full laboratory analytical report is included in *Appendix E*.

VOC groundwater analytical results were compared against the RIDEM Method 1 GB-GO as promulgated in the RIDEM Remediation Regulations, which are protective against migration of hazardous substances into indoor air via volatilization. No VOC were detected in the groundwater samples at concentrations exceeding the laboratory reporting limits during the July and September 2021 sampling events. Based on this data and comparison to the GB-GO, a vapor migration risk of VOC in groundwater to the existing buildings was not identified.

During the July 2021 groundwater sampling event, approximately 4.5 feet of NAPL was observed in monitoring well MW-8, located downgradient of two USTs north of Building 1. The presence of NAPL in the monitoring well constitute a reportable condition under the RIDEM Remediation Regulations. Therefore, a Hazardous Material Release Notification Form was prepared and is included in Appendix F. Remedial alternatives were developed for the Site as part of this SIR and are included below in Section 8.

7 Conceptual Site Model and Conclusions

The primary objectives of the Site Investigation activities described herein were to characterize the overall environmental quality of the Site and to complete an SIR in accordance with the requirements of Section 1.8 of the RIDEM Remediation Regulations. These investigation activities consisted of the collection and laboratory analysis of soil and groundwater samples. Results of the Site Investigation activities indicated that environmental media at the subject site were sufficiently characterized to support a complete SIR in accordance with the RIDEM Remediation Regulations.

Based on the data presented herein, a conceptual site model for the identified releases of oil and/or hazardous materials (OHM) to the environment was developed. The following statements summarize the quality of each environmental media investigated at the subject site and provide recommended response actions to address releases to those media:

- Site-wide soil containing metals and PAH: Historically, the Site was used for commercial and industrial purposes. Fill observed throughout the Site during this investigation contained anthropogenic materials, including brick, coal, and ash, and samples of the fill material contained PAH, TPH, lead and/or arsenic at levels exceeding the R-DEC and I/C-DEC. Fill materials were identified across the surface of the Site at a thickness of up to 15 feet. Remedial response actions will be required to bring the Site into compliance with the RIDEM Remediation Regulations.
- Soil Containing Petroleum: Soil containing TPH above the GB-LC was identified in samples collected from above the groundwater table in the vicinity of two USTs, located north of Building 1. During drilling activities, petroleum contaminated soil and groundwater was observed from approximately 10 to 20 fbg in soil borings SB-5, SB-7, MW-8, SB-17, SB-18, SB-20, SB-23, SB-25, and SB-27. Additionally, 4.5 feet of NAPL was observed in MW-8. A release



of petroleum to the subsurface was observed north of Building 1 in the area surrounding two USTs. Remedial response actions will be required to bring the Site into compliance with the RIDEM Remediation Regulations and UST Regulations.

- Groundwater Quality: No VOC were detected in the groundwater samples collected from the Site at concentrations exceeding the RIDEM Method 1 GB-GO. During the July 2021 groundwater sampling event, 4.5 feet of free-phase petroleum product was observed in monitoring well MW-8, located downgradient of two USTs. Remedial response actions will be required to bring the Site into compliance with the RIDEM Remediation Regulations.
- USTs: The GPR survey indicted five potential USTs exist at the site. The abandoned USTs should be formally closed in accordance with the RIDEM Rule and Regulations for Underground Storage Facilities Used for Regulated Substances and Hazardous Materials (UST Regulations, 250-RICR-140-25-1).

8 Remedial Alternatives Evaluation

Based on the risks identified above in *Sections 6 and 7*, Fuss & O'Neill evaluated remedial alternatives at the Site in order to bring soil at the Site into compliance with the RIDEM *Remediation Regulations* and facilitate Site redevelopment. In accordance with Section 1.8.4 of the *Remediation Regulations*, three alternatives, including a "no-action" alternative, were evaluated for the Site. For the reasons discussed in *Section 7*, no further action is currently recommended regarding groundwater quality at the Site.

8.1 Factors Affecting Remedial Alternatives

The following factors influenced the evaluation of the remedial alternatives described below:

- The proposed redevelopment at the Site may consist of converting the Site buildings and grounds into a mix of potential uses, potentially including residential, commercial, and/or industrial uses.
- Since the current us of the site is not restricted by an Environmental Land Usage Restriction, both the R-DEC and I/C DEC are applicable.
- The potential risks posed by environmental media at the subject site primarily include direct
 exposure to soil containing PAH, arsenic, lead, and petroleum above the RIDEM Method 1 RDEC and/or I/C-DEC, as well as mitigation of separate phase petroleum migration to nearby
 receptors.
- Petroleum in soil at levels above the GB-LC was identified in the soil north of Building 1. Additionally, approximately 4.5 feet of free-phase petroleum product was identified in groundwater at monitoring well MW-8. The GPR survey indicted evidence of two former USTs located north of Building 1. All USTs will need to be formally closed in accordance with the



RIDEM Rule and Regulations for Underground Storage Facilities Used for Regulated Substances and Hazardous Materials (UST Regulations, 250-RICR-140-25-1).

In consideration of these conditions, Fuss & O'Neill considered the following three remedial alternatives for the subject site:

- 1. Monitored natural attenuation.
- 2. Soil excavation and off-Site disposal.
- 3. Targeted Soil Excavation, Site-Wide Capping, UST Closure, and Institutional Controls

8.2 Remedial Alternative #1: Monitored Natural Attenuation

In accordance with the RIDEM Remediation Regulations, "No Action" has been evaluated as a remedial alternative at the Site. The primary contaminants of concern at the Site include PAH, arsenic, lead, and petroleum, which do not rapidly degrade over time, and therefore these conditions would likely impede any plans for proposed redevelopment or reuse of the site. Therefore, without remedial action, these contaminants will be persistent in environmental media at the Site. Implementation of the "No Action" remedial strategy would not comply with Section 1.9 of the Remediation Regulations, as the concentrations of the contaminants of concern at the subject site exceed applicable RIDEM regulatory criteria.

Unless addressed via remedial activities and/or institutional controls, contaminants in environmental media may pose a risk to future users of the subject site. Therefore, the "No Action" alternative is not an appropriate remedial strategy for soil and separate phase petroleum at the Site, and additional response actions are warranted.

8.3 Remedial Alternative #2: Soil Excavation and Off-site Disposal

Excavation and off-Site disposal of soil containing PAH, arsenic, lead, and petroleum may be an effective way of reducing concentrations of oil and/or hazardous in soil at the Site by physically removing the contaminated material from the Site. This alternative may be technically feasible to implement and would mitigate long-term risks to human health and the environment

8.3.1 Risk Management

By removing all soil from the Site that exceeds applicable regulatory criteria, long-term risks to human health and the environment at the Site would be mitigated. However, during excavation and transportation of soil, compared with other remedial alternatives, there would be a potential short-term, high intensity direct exposure risks to human health. The Site is located within a mixed-use, commercial and residential area, and, if not properly addressed, dust generation and aerial deposition could have the potential to impact nearby receptors. In comparison to other remedial alternatives, Site workers conducting the soil excavation, transport, and disposal activities would also potentially experience high-intensity exposure to the soil. Therefore, best management practices (i.e. use of personal protection



equipment, wetting of soil, covering exposed soil with plastic sheeting, etc.) would need to be implemented during the excavation process to limit risk to on-Site and off-Site receptors.

Due to the ubiquitous nature and distribution of urban fill and petroleum contaminated soil at the site, any proposed excavation of this material would pose a risk for migration of contaminants due to erosion, as the amount of excavation work necessary to implement this remedy would be significant.

Upon completion of the remedial activity, the regulated material would no longer pose a risk to Site users. However, the disposed soil would require management of potential risks to human and environmental receptors at and in the vicinity of the receiving facility.

8.3.2 Technical Feasibility

Excavation and disposal of all on-Site soil containing petroleum, PAH, arsenic, and lead as a remedial alternative may be technically feasible. However, available data indicate that the OHM are generally deposited within the on-Site fill material and are randomly distributed throughout the Site. The thickness of the fill material containing brick, coal, and ash was documented to be up to approximately 15 fbg. Furthermore, petroleum was observed during the investigation activities at approximately ten to twenty-three fbg in the soil borings located north of Building 1. Therefore, the petroleum contamination is located within the groundwater table. Consequently, excavation to remove the petroleum contaminated soil and groundwater would require expansive earthwork with significant dewatering, treatment, and discharge. Excavation of this soil would require additional shoring, dewatering, and management and disposal of dewatering fluids. Overall, a project of this nature would involve a significant earthwork disturbance, which could be technically challenging to complete given the physical constraints of the Site.

8.3.3 Compliance with Other Laws or Other Public Concerns

Implementation of excavation and off-Site disposal of soil containing petroleum, PAH, arsenic, and lead as a remedial alternative would comply with *Section 1.9* of the *Remediation Regulations* and would be conducted in a manner which would comply with other applicable state and local laws. However, this alternative would require the management of public concerns and public impact due to the significant disturbance and direct exposure to soil at the subject site, increased traffic, and disturbance to neighbors during the completion of remediation work. This alternative would also require coordination with the Rhode Island Department of Transportation (RIDOT). Specifically, coordination to disturb soil adjacent to roadway improvement along River Street including existing sidewalk, utility, and roadway improvements, which will also affect traffic patterns, thereby potentially affecting emergency response vehicles and creating public safety concerns.

8.3.4 Financial Feasibility

The costs of excavation, transportation, and disposal of small, targeted volumes of soil typically may be manageable. However, available data indicate that the extent of soil and fill material that would require excavation is widespread and includes soil and fill material that may extend to a depth of 10 to 20 fbg



over the majority of the Site. Based on this data, approximately 100,000 to 120,000 cubic yards of soil and fill material may require excavation and disposal throughout the Site. This would also result in a depression related to surrounding grade, which would require 100,000 to 120,000 cubic yards of backfill. Furthermore, additional costs would also be required for permitting, regulatory coordination, project engineering, and costs related to shoring, utility protection and other requirements, which may be warranted due to the presence of River Street and the Blackstone River in close proximity to the Site's boundary. Therefore, the total project cost could approach \$10M, and may not be successful in acquiring regulatory compliance due to some soil being inaccessible. Consequently, excavation and disposal of all soil containing OHM at the Site is not financially feasible for the performing party to implement.

8.4 Remedial Alternative #3: Targeted Soil Excavation, SiteWide Capping, UST Abandonment, and Institutional Controls

Targeted soil excavation of petroleum impacted soils combined with Site-wide capping, closure of USTs, and the implementation of an Environmental Land Use Restriction (ELUR), would mitigate the potential for direct exposure to soil containing petroleum, PAH, arsenic, and lead at concentrations greater than the R-DEC, I/C-DEC, and/or GB-LC may be a feasible remedial action for the subject site. The ELUR would be recorded for the entirety of the Site and would prohibit unrestricted residential use, require inspection and maintenance of the soil cap, and document soil management requirements should earthwork be necessary in the future.

The primary risks associated with the majority of the Site is the potential for direct exposure to soil by Site users. However, the potential risk of downgradient migration of petroleum from the Site to nearby receptor(s) also exists due to the presence of petroleum contamination identified within soil near and the groundwater table, and the Site's proximity to the Blackstone River. Targeted excavation of soil containing petroleum in the area of the two UST(s), north of Building 1, would eliminate the presence of petroleum impacted soil at concentrations greater than the GB-LC, and would also mitigate risk of future migration of petroleum compounds. Based on groundwater samples at collected at nearby wells installed during this site investigation, the release of petroleum appears to be limited to the area north of Building 1 and does not appear to have migrated far from the point-source.

On-site treatment and reuse of excavated soil containing petroleum utilizing soil stabilization techniques, such as asphalt emulsion and/or Portland cement stabilization may be an effective strategy to manage the relatively large volumes of soil containing petroleum that will require management. Soil stabilization would bind the petroleum in the soil, and render it immobile, while also generating a usable stable fill resource, which could be reused to backfill resulting excavations.

The construction of a Site-wide engineered cap would mitigate direct exposure to soil documented to contain regulated concentrations of compounds by creating a physical barrier between the soil and human receptors. The cap would also mitigate risks posed by entrainment of dust and soil erosion by



securing regulated soil beneath the cap. Additional limited soil excavation may be required to facilitate the installation of the engineered cap and site redevelopment.

Proper closure of the USTs identified during GPR activities would eliminate the risk of future petroleum releases occurring from these potential future point-sources.

A combination of the following strategies could be implemented at the Site:

- Soil capping would include one or a combination of the following sections placed over existing soil, which would depend on the ultimate reuse plan for the site and the layout of future improvements:
 - o For industrial, commercial, or restricted residential uses:
 - A two-foot thickness of clean fill.
 - A one-foot thickness of clean fill underlain by geotextile fabric.
 - A four-inch thickness of asphalt or concrete underlain by six inches of clean fill.
 - For solar array development, or another similar reuse scenario with limited or restricted public access:
 - A six-inch thickness of crushed stone underlain by a geotextile fabric.
- Targeted soil excavation and off-site disposal or on-site soil stabilization and reuse of
 approximately 6,000 to 12,000 cubic yards of petroleum impacted soil identified proximal to the
 location of two USTs, north of Building 1. The soil targeted for excavation and management is
 primarily located above the water table in the area to the north of Building 1, as depicted on
 Figure 2.
- Limited soil excavation and off-site disposal or on-site soil stabilization and reuse where necessary for grading and the redevelopment of the Site.
- The GPR survey indicted up to five potential USTs existed at the site. The abandoned USTs should be formally closed in accordance with the RIDEM Rule and Regulations for Underground Storage Facilities Used for Regulated Substances and Hazardous Materials (UST Regulations, 250-RICR-140-25-1).
- Capping specifications, including the specific capping layout and material specifications for the
 cap construction materials, would be presented in a Remedial Action Work Plan (RAWP) for
 submission to and approval by RIDEM, in accordance with Section 1.10 of the Remediation
 Regulations.

Institutional controls in the form of an Environmental Land Usage Restriction (ELUR) and Post-Remediation Soil Management Plan (SMP) would also be implemented. The ELUR would require that future uses of the Site be compatible with the soil cap and would ensure the integrity of the soil cap through inspection, maintenance, and reporting requirements. The ELUR would also require appropriate management of soil in the event of a disturbance of the cap. The Post-Construction SMP would detail the protocols required for disturbances of the cap or regulated soil at the subject site.



8.4.1 Risk Management

This remedial alternative would involve capping the Site to reduce the potential for Site users to be exposed to fill material and soil containing petroleum, PAH, arsenic, and lead during use of the Site. The primary risk associated with the majority of the subject site is the potential for direct exposure to soil and fill material. The construction of an engineered cap would mitigate direct exposure to soil and fill material by creating a physical barrier. The cap would also mitigate risks posed by dust generation and soil erosion by securing soil and fill material. Furthermore, this remedial alternative would also include the targeted removal of soil containing TPH at levels above the GB-LC. This would mitigate the potential for direct exposure, leaching of contaminants from the soil, and the migration of petroleum.

An ELUR would mandate that future users of the site maintain the engineered cap and would additionally require that future soil disturbances be conducted in accordance with the Post-Remediation SMP. The ELUR would additionally require annual inspections and certifications that the cap is maintained adequately.

8.4.2 Technical Feasibility

Targeted soil excavation and site wide capping of surficial material is a technically feasible remedial alternative and is compatible with the proposed redevelopment of the Site. Capping and targeted soil excavation is a technically feasible remedial alternative and could be incorporated into a development plan for the Site and would be implemented concurrently with Site development, or upon acquisition of suitable grant funding, whichever occurs first.

8.4.3 Compliance with Other Laws or Other Public Concerns

Soil management and implementation of capping in conjunction with the filing of an ELUR would comply with *Section 1.9* of the *Remediation Regulations* as well as other state and local laws. This alternative would need to be considered in conjunction with final Site design to ensure that appropriate topographic grades are established to promote effective Site drainage and stormwater management.

8.4.4 Financial Feasibility

This remedial alternative is considered to be more cost effective and provides greater cost certainty than Remedial Alternative #2. This remedial alternative is the most compatible with the redevelopment plan and, as a result, would provide cost efficiencies. The final cost of this remedial alternative would be dependent upon the final development plans for the Site. Financing of the costs associated with the filing of the ELUR and associated annual ELUR requirements would also be feasible to implement.

8.5 Preferred Remedial Alternative

Based on the technical and financial feasibility evaluations, in addition to planned redevelopment objectives for of the Site, the most feasible remediation strategy for the subject site would be Remedial



Alternative #3 – Targeted Soil Excavation, Site-Wide Capping, UST closure, and implementation of institutional controls in the form of an ELUR and Post-Remediation SMP.

An ELUR will be implemented to restrict future property use and to document the Post-Remediation SMP, which would outline procedures for maintaining the cap, as well as protocols for the post construction operational period of the Site.



9 Certifications

In accordance with Section 1.8.5 of the *Remediation Regulations*, the certification expressed below shall apply to the *SIR* compiled and submitted to RIDEM by Fuss & O'Neill.

I hereby certify the completeness and accuracy of the information contained in the above-referenced documents to the best of my knowledge

Cam / (Swang)	Associate	11/8/2021	
Signature of Fuss & O'Neill, Inc.	Title	Date	
Patrick J. Dowling, CPG			

I hereby certify that the above-referenced documents are a complete and accurate representation of the contaminated site and the release and contain all available facts surrounding the release to the best of my knowledge.

Signature of Performing Party
City of Woonsocket

City Planner

Date

Fevin Froft
Printed Name



10 References

Federal Emergency Management Agency, October 2015, FIRM Panel 44007C0069G. Scale = 1: [25,000].

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Rhode Island Department of Environmental Management, 2018, Water Quality Regulations; RIDEM, Office of Water Resources.

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Rhode Island Department of Environmental Management, 2018-2020, State of Rhode Island Final 303(d) List of Impaired Waters, February 2021.

USGS, 1939, Providence, Rhode Island Quadrangle, 7.5-Minute Series Topographic Map; United States Department of the Interior, U.S. Geological Survey, Photo revised 1947.



11 Limitations of Work Product

This document was prepared for the sole use of the City of Woonsocket, the only intended beneficiaries of our work. Those who may use or rely upon the report and the services (hereafter "work product") performed by Fuss & O'Neill, Inc. and/or its subsidiaries or independent professional associates, subconsultants and subcontractors (collectively the "Consultant") expressly accept the work product upon the following specific conditions.

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- 2. The work product may contain information that is time sensitive. The work product was prepared by Consultant subject to the particular scope limitations, budgetary and time constraints and business objectives of the Client which are detailed therein or in the contract between Consultant and Client. Changes in use, tenants, work practices, storage, Federal, state or local laws, rules or regulations may affect the work product.
- 3. The observations described and upon which the work product was based were made under the conditions stated therein. Any conclusions presented in the work product were based solely upon the services described therein, and not on scientific or engineering tasks or procedures beyond the scope of described services.
- 4. In preparing its work product, Consultant may have relied on certain information provided by state and local officials and information and representations made by other parties referenced therein, and on information contained in the files of state and/or local agencies made available at the time of the project. To the extent that such files which may affect the conclusions of the work product are missing, incomplete, inaccurate or not provided, Consultant is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, Consultant did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this project. Consultant assumes no responsibility or liability to discover or determine any defects in such information which could result in failure to identify contamination or other defect in, at or near the site. Unless specifically stated in the work product, Consultant assumes no responsibility or liability for the accuracy of drawings and reports obtained, received or reviewed.
- 5. If the purpose of this project was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous substances, waste or petroleum and chemical products and wastes as defined in the work product, unless otherwise noted, no specific attempt was made to check the compliance of present or past owners or operators of the subject site with Federal, state, or local laws and regulations, environmental or otherwise.



- 6. If water level readings have been made, these observations were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in water levels may occur due to variations in rainfall, passage of time and other factors and such fluctuations may affect the conclusions and recommendations presented herein.
- 7. Except as noted in the work product, no quantitative laboratory testing was performed as part of the project. Where such analyses have been conducted by an outside laboratory, Consultant has relied upon the data provided, and unless otherwise described in the work product has not conducted an independent evaluation of the reliability of these tests.
- 8. If the conclusions and recommendations contained in the work product are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data (if obtained) have been reviewed and interpretations made by Consultant. If indicated in the work product, some of these data may be preliminary or screening-level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.
- 9. Chemical analyses may have been performed for specific parameters during the course of this project, as described in the work product. However, it should be noted that additional chemical constituents not included in the analyses conducted for the project may be present in soil, groundwater, surface water, sediments or building materials at the subject site.
- 10. Ownership and property interests of all documents, including reports, electronic media, drawings and specifications, prepared or furnished by Consultant pursuant to this project are subject to the terms and conditions specified in the contract between the Consultant and Client, whether or not the project is completed.
- 11. Unless otherwise specifically noted in the work product or a requirement of the contract between the Consultant and Client, any reuse, modification or disbursement of documents to third parties will be at the sole risk of the third party and without liability or legal exposure to Consultant.
- 12. In the event that any questions arise with respect to the scope or meaning of Consultant's work product, immediately contact Consultant for clarification, explanation or to update the work product. In addition, Consultant has the right to verify, at the party's expense, the accuracy of the information contained in the work product, as deemed necessary by Consultant, based upon the passage of time or other material change in conditions since conducting the work.
- 13. Any use of or reliance on the work product shall constitute acceptance of the terms hereof.



Tables



Table 4 Summary of Soil Analytical Data and Objectives Samples Collected in June 2021

719 River Street Woonsocket, RI

Prepared for City of Woonsocket

November 2021

											Nov	vember 2021																		
	Location ID	SR-1	MW-2	SI	3-3	SE	3-4	SE	3-5	MW-6		SB-7		MW-8	MW-9	SB-10	SB.	.11	SB-	12	SB-13	MW-14	4	MV	W-15	SR.	.16			$\overline{}$
	Sample Number	0628-01	0628-02	0628-03	0628-04	0628-05	0628-06	0628-07	0628-08	0628-09	0628-10	0628-11	0628-12	0629-14	0629-15	0629-16	0629-17	0629-18			0.00	630-23 (0630-24		0630-26	0630-27	0630-28	RIDEM I	Regulatory Cri	riteria**
	Sample Date	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/28/2021	6/29/2021	6/29/2021	6/29/2021	6/29/2021	6/29/2021	6/29/2021	6/29/2021	6/29/2021 6/3	30/2021 6/	/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021			
	Depth Interval (fbg)	0.0-2.0	0.0-2.0	0.0-2.0	5,0-7,0	0.0-2.0	8.0-10	0.0-2.0	10-12	0.0-2.0	0.0-2.0	8.0-10	8.0-10	0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0	5,0-7,0	0.0-2.0	12-14	0.0-2.0 0	0.0-2.0	10-12	0.0-2.0	8.0-10	0.0-3.0	0.0-3.0	-	$\overline{}$	
	Headspace (ppmv)	0.0	0.0	0.3	0.0	0.0	0.3	0.3	62	1.0	0.4	115	115	0.4	2.4	0.3	0.4	0.0	0.0	0.5	0.5	0.0	0.4	0.5	1.5	0.3	0.3	R-DEC	I/C-DEC	GB-LC
	Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary Pr	rimary 1	Primary	Primary	Primary	Primary	Duplicate	.		
USEPA METHOD 8260C-D - VOC	Units																													
1,2-Dichlorobenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	ND<0.043	ND<0.0019	ND<0.0040	0.16	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	ND<0.0022	ND<0.0024			
1.4-Dichlorobenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	0.21	ND<0.0019	ND<0.0040	0.13	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	5 ND<0.0022	ND<0.0024			
Chlorobenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	0.37	ND<0.0019	ND<0.0040	0.12	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	5 ND<0.0022	ND<0.0024	210	10,000	100
Ethylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	ND<0.043	ND<0.0019	ND<0.0040	0.25	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	5 ND<0.0022	ND<0.0024	71	10,000	62
Isopropylbenzene (Cumene)	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	0.98	ND<0.0019	ND<0.0040	0.24	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	ND<0.0022	ND<0.0024	27	10,000	
Methyl Cyclohexane	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	1.5	ND<0.0019	ND<0.0040	1.3	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	ND<0.0022	ND<0.0024			
Naphthalene	mg/kg	ND<0.0036	ND<0.0032	ND<0.0045	ND<0.0045	ND<0.0041	ND<0.0040	ND<0.0053	ND<0.087	ND<0.0038	ND<0.0081	0.15	ND<0.11	ND<0.0052	ND<0.0043	ND<0.0093	ND<0.0036	ND<0.0040	ND<0.0045	ND<0.0034	ND<0.0038 ND	0<0.0040 NI	D<0.0042	ND<0.0043	ND<0.0056	ND<0.0045	ND<0.0047	54	10,000	
n-Butylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	1.2	ND<0.0019	ND<0.0040	0.11	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	ND<0.0022	ND<0.0024			
n-Propylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	1.8	ND<0.0019	ND<0.0040	0.39	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	0<0.0020 NI	D<0.0021	ND<0.0021	ND<0.0028	ND<0.0022	ND<0.0024			
sec-Butylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	0.84	ND<0.0019	ND<0.0040	0.17	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	- 120 010070	- 144 010020	- 100 010000		ND<0.0019 ND	0.000	D<0.0021	ND<0.0021	ND<0.0028		ND<0.0024			
tert-Butylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	0.052	ND<0.0019	ND<0.0040	ND<0.047	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	ND<0.0018	ND<0.0020	ND<0.0023	ND<0.0017	ND<0.0019 ND	<0.0020 NI)<0.0021	ND<0.0021	ND<0.0028	ND<0.0022	ND<0.0024			
Toluene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	ND<0.043	ND<0.0019	ND<0.0040	0.072	ND<0.057	ND<0.0026	ND<0.0021	- 122 0100 10					ND<0.0019 ND	010020 2.12	- 0.00-	ND<0.0021	ND<0.0028		ND<0.0024	190	10,000	54
1,2,4-Trimethylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	ND<0.043	ND<0.0019	ND<0.0040	0.062	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046	1413 -0.0010	1417 -0.0020	ND<0.0023	1417 -0.0017	ND <0.0017 ND	<0.0020 NI	17 50.0021	ND<0.0021	ND<0.0028	J 1415 -0.0022	ND<0.0024			
1,3,5-Trimethylbenzene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	ND<0.043	ND<0.0019	ND<0.0040	0.049	ND<0.057	ND<0.0026	ND<0.0021	ND<0.0046			ND<0.0023		ND<0.0019 ND	-0.00E0 141	D<0.0021	ND<0.0021	ND<0.0028	J 1415 -0.0022	ND<0.0024			
m+p Xylene	mg/kg	ND<0.0036	ND<0.0032	ND<0.0045	ND<0.0045	ND<0.0041	ND<0.0040	ND<0.0053	ND<0.087	ND<0.0038	ND<0.0081	0.13	ND<0.11	ND<0.0052	ND<0.0043	ND<0.0093	1413 -0.0030	1413 -0.00 10	ND<0.0045	1413 -0.0031	1415 -0.0050 1415	-0.00 10 141	D<0.0042	ND<0.0043	1415 -0.0050		ND<0.0047			
o-Xylene	mg/kg	ND<0.0018	ND<0.0016	ND<0.0022	ND<0.0023	ND<0.0020	ND<0.0020	ND<0.0027	ND<0.043	ND<0.0019	ND<0.0040	0.064	ND<0.057	ND<0.0026	0.0021	ND<0.0046	1412 < 0.0010	1417 -0.0020	1415 < 0.0025	1412 -0.0017	ND<0.0019 ND	750.0020 141	17 50.0021	ND<0.0021	ND<0.0028	J 1413 ~0.0022	ND<0.0024			
Xylenes (Total)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.194	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	10,000	
USEPA METHOD 6010D - METALS																									4					
Arsenic	mg/kg	3.4	ND<3.4	4.6	ND<3.6	4.3	ND<3.6	ND<3.6	ND<3.5	<u>11</u>	<u>8.8</u>	ND<3.5	ND<3.5	<u>22</u>	ND<3.4	<u>8.1</u>	ND<3.3	ND<3.6	<u>14</u>	<u>7.4</u>			ND<3.5	ND<3.5		5.6	ND<3.5	7.0	7.0	
Beryllium	mg/kg	0.27	ND<0.17	0.29	0.21	0.48	0.25	0.36	0.25	0.39	1.3	0.23	0.23	0.44	0.18	0.40	0.17	0.24	0.44	0.39	0.00		0.26	0.51	0.29	0.27	0.19	1.5	1.5	
Cadmium	mg/kg	ND<0.34	ND<0.34	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.35	1.1	ND<0.37	ND<0.35	ND<0.35	ND<0.37	ND<0.34	ND<0.39	ND<0.33	ND<0.36	ND<0.35	ND<0.35	ND<0.36 NI	D<0.35 N	ND<0.35	ND<0.35	ND<0.40	ND<0.36	ND<0.35	39	1,000	
Chromium	mg/kg	14	4.3	11	4.5	9.6	7.0	7.5	7.4	16	9.9	13	7.2	200	16	10	3.4	4.7	22	15	9.2	16	12	16	20	10	8.1	390*	10,000	
Copper	mg/kg	22	2.6	13	3.2	16	16	21	5.9	89	29	8.3	6.1	90	15	14	4.6	3.7	16	12	16	22	14	21	15	12	6.2	3,100	10,000	
Lead Nickel	mg/kg	07	1.5	45 5.7	1.7	53 7.7	260	2.9	1.5	220 8.7	860 9.7	34 6.7	2.6	240 7.6	25 4.7	30	4.5	1.8	57 7.4	20	02	57	7.3	43	7.9	54	7.6	150	500 10.000	
1 ticker	mg/kg	5.3	2.8	5.1	4.2	77	4.4	J.,	8.0	0.7	7.1	0.7	4.9	7.0	4./	5.8	3.1	3.1	7.4	6.9	0.5	7.8	7.3	8.8 56	7.9	6.6	5.1	1,000	10,000	
Zinc USEPA METHOD 7471B - MERCURY	mg/kg	52	9.8	48	11	49	44	14	16	690	42	16	12	68	89	19	21	19	3/	28	70	52	32	56	36	39	18	6,000	10,000	
Mercury	mg/kg	0.24	ND<0.030	0.34	ND<0.031	0.047	0.73	0.081	ND<0.028	0.22	0.034	ND<0.027	ND<0.032	0.28	0,044	0.10	ND<0.028	ND<0.031	0.052	ND<0.029	0.079 (0.057	0.071	0.14	0,046	ND<0.030	NID<0.030	23	610	
USEPA METHOD 8270D-E - PAH	mg/ kg	0.24	1415 40.050	0.34	1415 < 0.051	0.047	0.73	0.001	1415 40.020	0.22	0.034	1415 40.027	1415 < 0.032	0.20	0.044	0.10	1415 40.020	1415 40.051	0.032	1415 (0.02)	0.075	0.037	0.071	U.14	0.040	ND <0.030	1415 40.050		010	
Acenaphthene	mg/kg	1.9	ND<0.18	ND<0.18	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<3.6	ND<0.18	ND<0.19	ND<3.6	ND<1.9	ND<0.38	ND<0.18	ND<0.20	ND<0.17	ND<0.19	ND<0.18	ND<0.18	ND<0.19 NI	D<0.18 N	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	43	10.000	
Acenaphthylene	mg/kg	6.3	ND<0.18	ND<0.18	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<3.6	ND<0.18	ND<0.19	ND<3.6	ND<1.9	ND<0.38	ND<0.18	ND<0.20	ND<0.17	ND<0.19	ND<0.18	ND<0.18	ND<0.19 NI	D<0.18 N	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	23	10.000	
Anthracene	mg/kg	12	ND<0.18	ND<0.18	ND<0.19	0.30	ND<0.19	0.21	ND<3.6	ND<0.18	0.24	ND<3.6	ND<1.9	0.78	ND<0.18	ND<0.20	ND<0.17	ND<0.19	ND<0.18	ND<0.18	0.22	0.33 N	VD<0.18	- 144 0110	ND<0.21	ND<0.18	ND<0.18	35	10,000	
Benzo[a]anthracene	mg/kg	18	ND<0.18	0.29	ND<0.19	1.4	ND<0.19	0.58	ND<3.6	0.46	1.3	ND<3.6	ND<1.9	4.8	0.23	ND<0.20	ND<0.17	ND<0.19	0.52	ND<0.18	1.4	1.2	0.57	0.54	0.23	ND<0.18	ND<0.18	0.9	7.8	
Benzolalpyrene	mg/kg	16	ND<0.18	0.29	ND<0.19	1.5	ND<0.19	0.48	ND<3.6	0.39	1.1	ND<3.6	ND<1.9	4.1	0.21	ND<0.20	ND<0.17	ND<0.19	0.45	ND<0.18	1.5	1.1	0.61	0.46	0.23	ND<0.18	ND<0.18	0.4	0.8	
Benzo[b]fluoranthene	mg/kg	18	ND<0.18	0.35	ND<0.19	1.9	ND<0.19	0.56	ND<3.6	0.54	1.5	ND<3.6	ND<1.9	5	0.28	ND<0.20	ND<0.17	ND<0.19	0.60	0.21	2.4		0.74	0.62	0.30		ND<0.18	0.9	7.8	
Benzo[g,h,i]perylene	mg/kg	9.0	ND<0.18	ND<0.18	ND<0.19	0.97	ND<0.19	0.27	ND<3.6	0.29	0.74	ND<3.6	ND<1.9	2.9	ND<0.18	ND<0.20	ND<0.17	ND<0.19	0.27	ND<0.18	1.2		0.44	0.28	ND<0.21		ND<0.18	0.8	10,000	
Benzo[k]fluoranthene	mg/kg	7.6	ND<0.18	ND<0.18	ND<0.19	0.72	ND<0.19	0.23	ND<3.6	0.21	0.44	ND<3.6	ND<1.9	1.7	ND<0.18	ND<0.20	ND<0.17	ND<0.19	0.25	ND<0.18	0.95	0.52	0.29	0.23	ND<0.21	ND<0.18	ND<0.18	0.9	78	
Chrysene	mg/kg	15	ND<0.18	0.27	ND<0.19	1.4	ND<0.19	0.52	ND<3.6	0.48	1.7	ND<3.6	ND<1.9	6.3	0.22	0.38	ND<0.17	ND<0.19	0.50	ND<0.18	1.8	1.1	0.56	0.53	0.25	ND<0.18	ND<0.18	0.4	780	
Dibenz[a,h]anthracene	mg/kg	2.3	ND<0.18	ND<0.18	ND<0.19	0.26	ND<0.19	ND<0.19	<u>ND<3.6</u>	ND<0.18	0.20	<u>ND<3.6</u>	ND<1.9	0.82	ND<0.18	ND<0.20	ND<0.17	ND<0.19	ND<0.18	ND<0.18	0.31 NI	D<0.18 N	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	0.4	0.8	
Fluoranthene	mg/kg	<u>41</u>	ND<0.18	0.57	ND<0.19	2.4	ND<0.19	1.1	ND<3.6	0.93	2.3	ND<3.6	ND<1.9	7.7	0.47	0.21	ND<0.17	ND<0.19	1.1	ND<0.18	2.8	2.4	1.1	1.1	0.42	0.32	ND<0.18	20	10,000	
Fluorene	mg/kg	8.9	ND<0.18	ND<0.18	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<3.6	ND<0.18	ND<0.19	ND<3.6	ND<1.9	ND<0.38	ND<0.18	ND<0.20	1412 (0.17	ND<0.19	ND<0.18	ND<0.18	- 140 0117	D<0.18 N		ND<0.18	1415 40.21	- 144 0110	ND<0.18	28	10,000	
Indeno[1,2,3-cd]pyrene	mg/kg	9.7	ND<0.18	ND<0.18	ND<0.19	1.0	ND<0.19	0.28	<u>ND<3.6</u>	0.28	0.64	<u>ND<3.6</u>	<u>ND<1.9</u>	2.8	ND<0.18	ND<0.20	ND<0.17	ND<0.19	0.27	ND<0.18			0.43	0.32	ND<0.21		ND<0.18	0.9	7.8	
2-Methylnaphthalene	mg/kg	3.8	ND<0.18	ND<0.18	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<3.6	0.20	ND<0.19	13	16	ND<0.38	ND<0.18	ND<0.20	ND<0.17	ND<0.19	ND<0.18	ND<0.18	ND<0.19 NI	D<0.18 N	ND<0.18	ND<0.18	ND<0.21	ND<0.18	ND<0.18	123	10,000	
Naphthalene	mg/kg	7.8	ND<0.18	ND<0.18	ND<0.19	ND<0.19	ND<0.19	ND<0.19	ND<3.6	ND<0.18	ND<0.19	ND<3.6	ND<1.9	ND<0.38	ND<0.18	ND<0.20	ND<0.17	ND<0.19	ND<0.18	ND<0.18			VD<0.18	ND<0.18			ND<0.18	54	10,000	
Phenanthrene	mg/kg	<u>50</u>	ND<0.18	0.37	ND<0.19	1.3	ND<0.19	1.0	3.8	0.86	2.0	4.9	5.6	6.4	0.32	0.68	1413 -0.17	ND<0.19	0.62	ND<0.18	***	4.7	0.73	0.76	0.33		ND<0.18	40	10,000	
Pyrene	mg/kg	40	ND<0.18	0.56	ND<0.19	2.7	ND<0.19	1.1	ND<3.6	0.93	2.9	ND<3.6	2.1	9.1	0.44	0.27	ND<0.17	ND<0.19	0.92	ND<0.18	2.7	2.3	1.2	1.1	0.46	0.33	ND<0.18	13	10,000	
USEPA METHOD 8082A - PCBs																									4					
Aroclor-1254	mg/kg	ND<0.084	ND<0.085	ND<0.088	ND<0.088	ND<0.088	ND<0.089	ND<0.091	ND<0.085	ND<0.086	ND<0.091	ND<0.085	ND<0.088	ND<0.091	ND<0.085	ND<0.096	ND<0.082	ND<0.088	ND<0.085	ND<0.085	ND<0.089 ND	O<0.086 N	D<0.086	0.28	ND<0.097	ND<0.087	ND<0.083	10	10	10
USEPA METHOD 8100 Modified - TPH																									4					
TPH Total	mg/kg	<u>1,100</u>	ND<8.8	32	10	390	9.5	74	6,800	220	260	12,000	<u>15,000</u>	<u>1,200</u>	59	<u>580</u>	11	21	210	160	370	190	430	190	120	53	29	500	2,500	2,500
USEPA Method 1311 - TCLP																									4					
Chromium	mg/L	NA	NA	NA	NA	NA	NA 0.40	NA	NA	NA	NA ND 1010	NA	NA	0.090	NA	NA	NA	NA	NA	NA		1121	NA	NA	NA	NA	NA			
Lead	mg/L	NA	NA	NA	NA	NA	0.18	NA	NA	1.4	ND < 0.10	NA	NA	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

NOTES:

fbg: feet below grade
ppmv: part per million by volume
Only the last six digits of the sample numbers are given.
Only target analytes detected in at least one sample are listed
MW: soil boring with monitoring well
SB: soil boring
PAH: polycyclic aromatic hydrocarbons
VOC: volatile organic compounds
PAH: polycyclic aromatic hydrocarbons
PCBs: polychlorinated biphenyls
TPH: total petroleum hydrocarbons

TCLP: toxicity characteristic leaching procedure
RIDEM: Rhode Island Department of Environmental Management
USEPA: United States Environmental Protection Agency
mg/kg: milligrams per kilogram
mg/L: milligrams per kiter
ND<X: compound not detected above laboratory reporting limit
NA: Not analyzed
**Conservatively assumes that all chromium is in hexavalent form.

**RIDEM Remediation Regulations 250-RICR-140-30-1, last amended April 2020
---: not established

R-DEC: Residential direct exposure criteria

1/C-DEC: Industrial/Commercial direct exposure criteria

GB/LC: GB leachability criteria

Bold and underlined values exceed one or more regulatory criteria

= Values exceed the R-DEC

= Values exceed the R-DEC and I/C-DEC

= Values exceed the R-DEC, I/C-DEC & GB/LC

Created by: MHS Checked by: SMD

 $F: \P2018\1545\B10\Sites\719\ River\ Street\ -\ Dorado\Deliverables\SIR\Tables\Table\ 4\ -\ mhs_soil\ table_20210719.xlsx$ Page 1 of 1



Table 5 Summary of Groundwater Elevations Measurements Collected July 8, 2021

719 River Street Woonsocket, Rhode Island

Prepared for City of Woonsocket

November 2021

Well Number	Relative Elevation TPS (feet)	DTW - TPS	Relative Groundwater Elevation
MW-2	98.2	8.25	89.95
MW-6	102.40	16.90	85.50
MW-8	101.22	15.80	85.42
MW-9	100.15	19.60	80.55
MW-14	100.05	19.60	80.45
MW-15	100.65	19.35	81.30

NOTES: Created by: MHS
DTW: depth to water Checked by: SMD

TPS: top of steel

Shallow wells with screens that intersect the water table were used to develop the groundwater contour map. Wells were surveyed on July 8, 2021 using an assumed 100.00-foot benchmark. All groundwater and well elevations are relative to that assumed benchmark.



Table 6

Summary of Groundwater Analytical Data and Objectives Samples Collected on July 15, 2021 and September 9, 2021

719 River Street Woonsocket, Rhode Island

Prepared for City of Woonsocket

November 2021

	Sample Location	MW-6		MW-9	MW-15	MW-14	MW-2	RIDEM	RIDEM
	Sample Number	0715-02	0715-03	0715-04	0715-05	0715-06	0909-02	Regulatory	Regulatory
	Sample Date	7/15/	2021	7/15/2021	7/15/2021	7/15/2021	9/9/2021	Criteria	Criteria
	Screened Interval (fbg)	8-1	8-18		10-20	10-20	5/15/2021	GA-GO	GB-GO
	Sample Type	Primary	Duplicate	Primary	Primary	Primary	Primary	GA-GO	GB-GO
FIELD MEASUREMENTS	Units								
рН	pH units	6.1	17	6.03	5.96	6.38	6.12	NE	NE
Specific Conductance	μS/cm	444	.80	304.20	362.30	398.50	255.90	NE	NE
Temperature	C deg	15.	70	15.20	13.19	14.26	19.68	NE	NE
Dissolved Oxygen	mg/L	0.3	36	1.47	2.76	0.62	5.50	NE	NE
ORP	mV	38.	30	-2.90	101.80	-26.90	105.10	NE	NE
Turbidity	ntu	5.83		18.80	10.40	18.70	3.90	NE	NE
USEPA METHOD 8260C-D - VOC									
Various	μg/L	ND	ND	ND	ND	ND	ND	Various	Various

Created by: MHS
Checked by: SMD

NOTES:

fbg: feet below grade MW: monitoring well

Only the last six digits of the sample number are listed Only target analytes detected in at least one sample are listed

ORP: oxidation-reduction potential VOC: volatile organic compounds $\mu S/cm$: microsiemens per centimeter

C deg: degrees Celsius mg/L: milligrams per liter ng/L: nanograms per liter mV: millivolts

ntu: nephelometric turbidity units $\mu g/L$: micrograms per liter

NA: not anaylzed

RIDEM: Rhode Island Department of Environmental Management

USEPA: United States Environmental Protection Agency

ND<Varies: compound not detected above laboratory reporting limit

GA-GO: GA Groundwater Objectives GB-GO: GB Groundwater Objectives

NE: Not established

= Values exceed the GA-GO



Figures

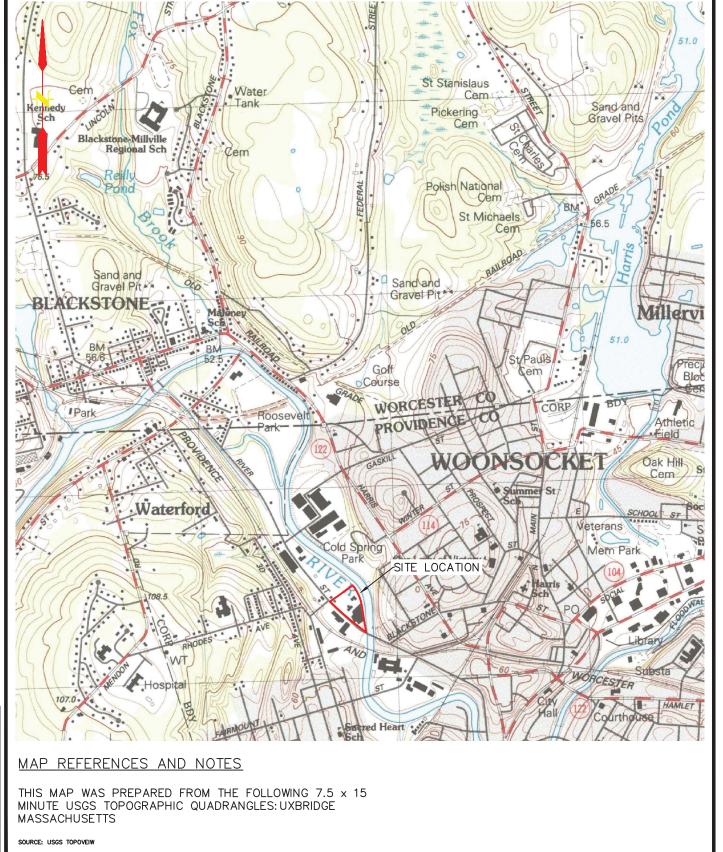






VERT

GRAPHIC SCALE



HORZ.: 1" = 200' VERT.: **FUSS&O'NEILI**

317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070 www.fando.com

CITY OF WOONSOCKET SITE LOCATION MAP

719 RIVER STREET

RHODE ISLAND WOONSOCKET

PROJ. No.: 20181545.B10 DATE: NOVEMBER 2021

FIGURE 1



MONITORING WELL





PARCEL BOUNDARY



UNDERGROUND STORAGE TANK (UST)

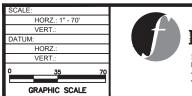
APPROXIMATE AREA OF PETROLEUM CONTAMINATED SOIL DETERMINED BY FIELD OBSERVATIONS (DASHED WHERE INFERRED)

WOONSOCKET

THIS MAP WAS PREPARED FROM RIGIS COLOR ORTHO IMAGERY (2019)

SOURCE: THE RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS)

SITE FEATURES AND UST LOCATIONS ARE **APPROXIMATE**





CITY OF WOONSOCKET

SITE PLAN

719 RIVER STREET (PLAT 8, LOTS 5, 35, 37 & 58)

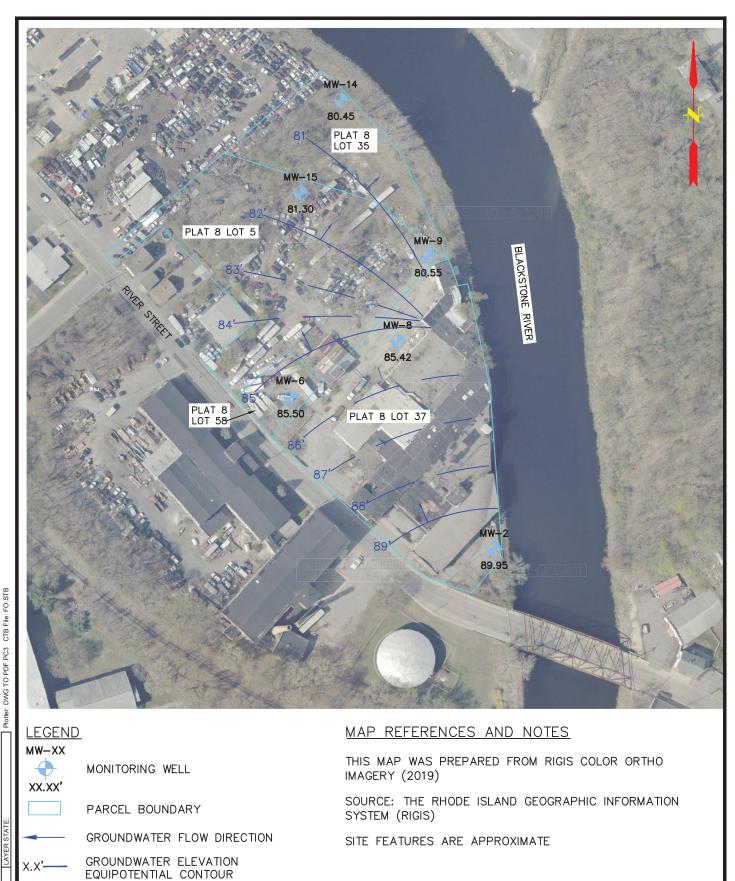
PROJ. No.: 20181545.B10 DATE: NOVEMBER 2021

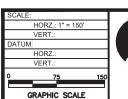
FIGURE 2

RHODE ISLAND

Layout: 11X17-P Plotted: 2021-11-08 :: DWG TO PDF.PC3 STB/CTB: FO.S







FUSS&O'NEILL 317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070 www.fando.com

CITY OF WOONSOCKET

GROUNDWATER CONTOUR MAP

719 RIVER STREET

WOONSOCKET RHODE ISLAND PROJ. No.: 20181545.B10 DATE: NOVEMBER 2021

FIGURE 3



Appendix A

City of Woonsocket Files

NORTHEAST (Summary Data

Woonsocket

(Summary Data - may not be Complete Representation of Property)



Parcel: 08F-005-005 Location: 787 RIVER STREET Owner: DORADO PROPERTIES LLC

 Account:
 4641
 User Acct: 00005703
 LUC: 07 - INDUSTRIAL
 Zoning: I1

Parcel Values

REVALUATION GROUP LLC

Total: \$140,400 Land: \$78,300 Land Area: 1.97 AC Building: \$62,100 Assessed: \$140,400

Sales Information

Book and Page Instrument Type Date Price Grantor

997-298 06/30/1995 \$175,000

Building Type:IndustrialYear Built: 1900Grade:CCondition: FRHeat Fuel:Coal or WoodHeat Type:None% Air Conditioned:0.00Fireplaces: 0Exterior Wall:Stone/MasonrBsmnt Garage:0Roof Cover: Metal/Tin# of Units: 1

of Rooms: 0 # of Bedrooms: 0 Full Bath: 0 1/2 Baths: 1

Yard Item(s)

DescriptionQuantitySizeYearConditionQualityValuePaving - Asphalt150002008AVAverage\$3,500.00

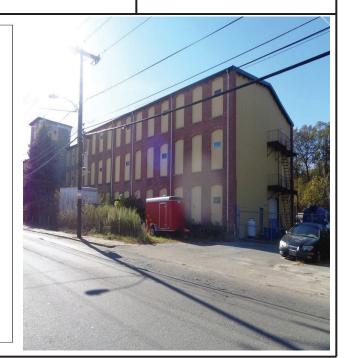
Building Areas

AreaNet AreaFinished AreaFirst Floor3,025 SF3,025 SF

Disclaimer: This information is for tax assessing purposes and is not warranted

55 BAS (3025)

55



Woonsocket NORTHEAST REVALUATION GROUP LLC (Summary Data - may not be Complete Representation of Property) **NORTHEAST** REVALUATION GROUP LL Parcel: 08F-035-011 **Location:** 0 RIVER STREET Owner: DORADO PROPERTIES LLC Account: 4639 User Acct: 00900028 LUC: 14 - COMM AND IND VACAN **Zoning**: I1 Parcel Values Total: \$3,400 Land: \$3,400 Land Area: 0.56 AC Building: \$0 Assessed: \$3,400 **Sales Information Book and Page** Instrument Type Date Price Grantor 997-298 06/30/1995 \$175,000 Condition: AV **Building Type:** Year Built: Grade: % Air Conditioned: 0.00 **Heat Fuel: Heat Type:** Fireplaces: 0 **Exterior Wall: Roof Cover:** # of Units: 0 Bsmnt Garage: 0 # of Rooms: 0 # of Bedrooms: 0 Full Bath: 0 **1/2 Baths:** 0 Yard Item(s) Description Quantity Condition Quality Value Size Year **Building Areas** Area Net Area **Finished Area** Disclaimer: This information is for tax assessing purposes and is not warranted

Woonsocket

(Summary Data - may not be Complete Representation of Property)

\$175,000



Owner: DORADO PROPERTIES LLC Parcel: 08F-037-002 Location: 719 RIVER STREET

Account: 4640 User Acct: 00900029 LUC: 07 - INDUSTRIAL Zoning: I1

Parcel Values

997-298

NORTHEAST

REVALUATION GROUP LLC

Total: \$245,800 Land: \$128,400 Land Area: 2.207 AC Building: \$117,400 Assessed: \$245,800

Sales Information

Book and Page Grantor Instrument Type Date Price 06/30/1995

Building Type: Mill.Bldg. Year Built: 1890 Grade:C Condition: PR

% Air Conditioned: 3.00 Heat Fuel: Gas Heat Type: Steam Fireplaces: 0 Exterior Wall:Brick/Masonr Bsmnt Garage: 0 Roof Cover: Tar & Gravel # of Units: 2

of Rooms: 0 # of Bedrooms: 0 Full Bath: 0 1/2 Baths: 2

Yard Item(s)

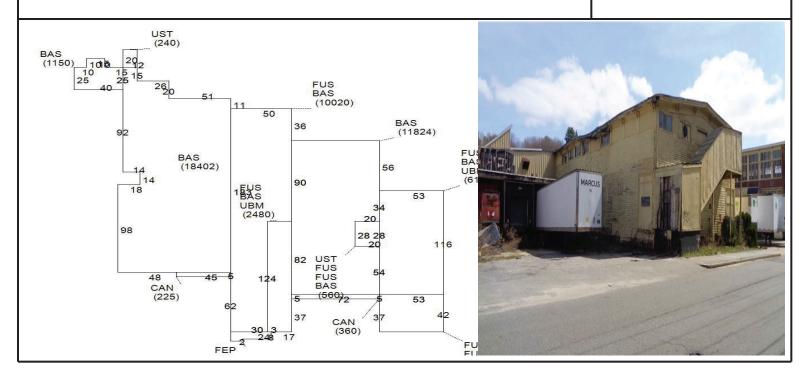
Description	Quantity	Size	Year	Condition	Quality	Value
Load Level. w/Mar	Flip-out	7	1964	AV	Average	\$400.00
Paving - Asphalt	1	7000	1995	PR	Average	\$3,400.00
Elevator - Freight	1	3	1964	AV	Average	\$4,000,00

Building Areas

Net Area Finished Area Area Basement, Unfinished 8,628 SF 0 SF Canopy 585 SF 0 SF Enclosed porch 282 SF 0 SF

First Floor 52,810 SF 52,810 SF Upper Story, Finished 24,220 SF 24,220 SF Utility, Storage, Unfinis 0 SF 800 SF

Disclaimer: This information is for tax assessing purposes and is not warranted



NORTHEAST

Woonsocket

(Summary Data - may not be Complete Representation of Property)



Parcel: 08F-058-004 Owner: DORADO PROPERTIES LLC Location: 775 RIVER STREET

Account: 4638 User Acct: 00900030 LUC: 05 - COMMERCIAL I Zoning: I1

Parcel Values

REVALUATION GROUP LLC

Total: \$93,200 Land: \$31,600 Land Area: 0.284 AC Building: \$61,600 Assessed: \$93,200

Sales Information

Book and Page Instrument Type Price Grantor Date

997-298 06/30/1995 \$175,000

Building Type: Service Shop Year Built: 1900 Grade:C Condition: AV

Heat Fuel: Coal or Wood Heat Type: None % Air Conditioned: 0.00 Fireplaces: 0 Exterior Wall:Concr/Cinder Roof Cover: Tar & Gravel # of Units: 1 Bsmnt Garage: 0

of Rooms: 0 # of Bedrooms: 0 Full Bath: 0 1/2 Baths: 1

Yard Item(s)

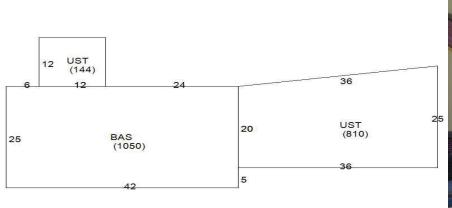
Description Quantity Condition Value Size Year Quality Paving - Asphalt 2000 2008 \$1,300.00 Average

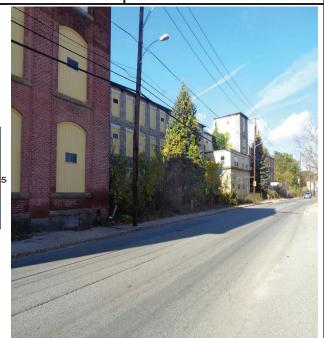
Building Areas

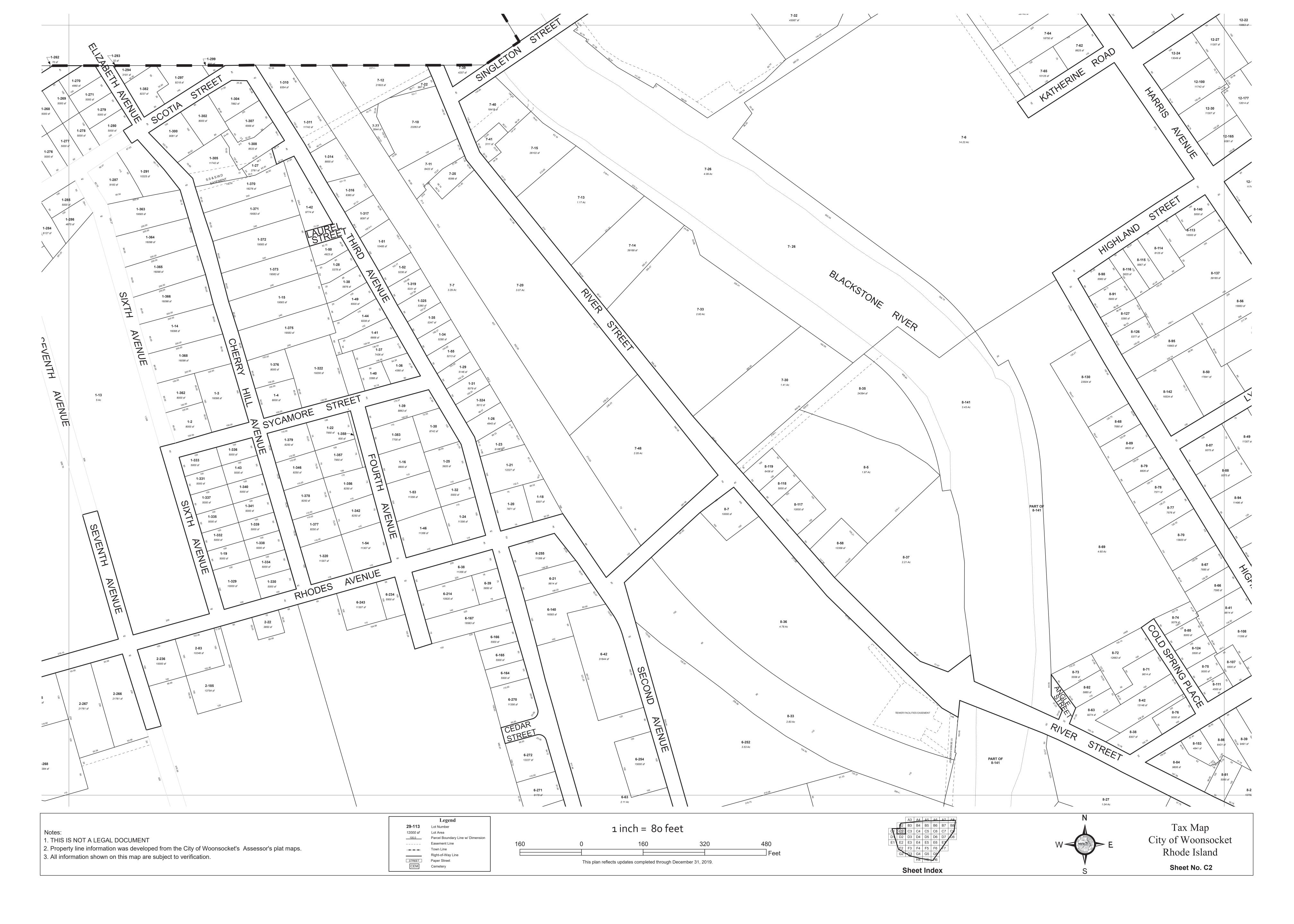
Area Net Area Finished Area 1,050 SF First Floor 1,050 SF Utility, Storage, Unfinis 954 SF

0 SF

Disclaimer: This information is for tax assessing purposes and is not warranted









Appendix B

Hazardous Building Materials Report

Limited Hazardous Building Materials Inspection Report

719 River Street Woonsocket, Rhode Island

City of Woonsocket

Woonsocket, Rhode Island

February 2021





February 8, 2021

Mr. Kevin Proft City Planner City of Woonsocket 169 Main Street Woonsocket, RI 02895

RE: Limited Hazardous Building Materials Inspection 719 River Street, Woonsocket, RI

Fuss & O'Neill Project No. 20181545.B10

Dear Mr. Proft:

Enclosed is the limited hazardous building materials inspection summary report for the inspection conducted at the mill building located at 719 River Street in Woonsocket, Rhode Island.

On January 13 and 14, 2021, a Fuss & O'Neill. Inc. state-certified Asbestos Inspector performed a limited asbestos inspection, a lead-based paint screening, and a fluorescent light ballast and mercury-containing equipment inventory prior to proposed demolition activities.

The information summarized in this report is for the abovementioned materials only. The work was performed in accordance with our written scope of services dated October 7, 2020.

If you should have any questions regarding the contents of the enclosed report, please do not hesitate to contact me at 401.861-3070, extension 4568. Thank you for this opportunity to have served your environmental needs.

Sincerely,

317 Iron Horse Way Suite 204 Providence, RI 02908 † 401.861.3070 800.286.2469 f 401.861.3076

Patrick J. Dowling, CPG

Associate/Department Manager

PJD/rs

www.fando.com

Enclosure

California Connecticut

Maine

Massachusetts

New Hampshire

Rhode Island

Vermont

F:\P2018\1545\B10\Sites\719 River Street - Dorado\Deliverables\Hazmat Report\DD_rm_mhs_719 River St_Hazmat pt_20210205.docx



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1. Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

2. Asbestos-Containing Materials Inventory Summary

Appendices End of Report

APPENDIX A

APPENDIX B

FUSS & O'NEILL ASBESTOS INSPECTOR STATE LICENSE & EPA
ACCREDITATION

APPENDIX C

ASBESTOS LABORATORY ANALYTICAL REPORTS & CHAIN-OFCUSTODY FORM

APPENDIX D

XRF LEAD-BASED PAINT SCREENING FIELD DATA SHEETS



1 Introduction

On January 13 and 14, 2021, Fuss & O'Neill, Inc. (Fuss & O'Neill) representative, Mr. Robert Mallett, performed a limited hazardous building materials inspection prior to proposed demolition activities to occur at the former mill building located at 719 River Street in Woonsocket, Rhode Island (the "Site"). Sampling and laboratory analyses were conducted in accordance with the Standard Operating Procedures for field and laboratory activities as detailed in the United States Environmental Protection Agency and Rhode Island Department of Environmental Management approved Site Specific Quality Assurance Project Revision 0.0 for the project, dated December, 2020

1.1 Scope of Work

The work was performed for the City of Woonsocket (the "Client") in accordance with our written scope of services dated October 7, 2020. This report is subject to the limitations presented in *Appendix A*. The scope of work included the following:

- Limited Asbestos-Containing Materials (ACM) Inspection;
- Lead-Based Paint (LBP) Screening; and
- Fluorescent Light Ballast and Mercury-Containing Equipment Inventory.

The middle section of the complex has a structurally unsound roof, which has led to flooring failures at several areas. The middle section was observed from safe locations, and samples were collected without exposing personnel to questionable structural conditions.

Fuss & O'Neill did not conduct subsurface investigations to identify concealed suspect materials throughout the subject property.

We did not conduct collection and analysis of suspect building materials for polychlorinated biphenyls (PCBs) during this inspection. Sampling for PCBs is presently not mandated by the United States Environmental Protection Agency (EPA); however, liability risk for disposing of PCB-containing wastes exists. Recent knowledge of PCBs within these matrices has become more prevalent, especially with remediation contractors, waste haulers, and disposal facilities. Some property owners have become subject to changes in schedule, scope, and costs as a result of failure to identify PCBs prior to renovation or demolition activities.

2 Limited Asbestos Inspection

A property owner or operator must ensure that a thorough asbestos inspection is performed prior to possible disturbance of suspect ACM during renovation or demolition activities. This is a requirement of the United States Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR, Part 61, Subpart M.

Fuss & O'Neill conducted the limited inspection of visible and accessible areas. Mr. Mallett is a Rhode Island Department of Health (RIDOH)-licensed Asbestos Inspector. Refer to *Appendix B* for copies of the Asbestos Inspector's state license and EPA accreditation.



2.1 Methodology

The inspection was conducted by visually inspecting for suspect ACM and touching each of the suspect ACM. The suspect ACM were grouped into three EPA NESHAP categories: Friable; Category I Non-Friable, and Category II Non-Friable.

- Friable is defined as material that contains greater than one percent (> 1%) asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I Non-Friable refers to material that contains > 1% asbestos (i.e., packings, gaskets, resilient floor coverings, and asphalt roofing products) that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- Category II Non-Friable refers to any non-friable material excluding Category I materials that contain
 1% asbestos that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The suspect ACM were also categorized into their applications including: Thermal System Insulation (TSI), Surfacing ACM, and Miscellaneous ACM. TSI includes those materials used to prevent heat loss/gain or water condensation on mechanical systems. Examples of TSI include, but are not limited to, pipe insulation, boiler insulation, duct insulation, mudded pipe fitting insulation, etc. Surfacing ACM includes those ACM that are sprayed-on, troweled-on, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous ACM include those not listed as TSI or Surfacing ACM, such as sheet flooring, floor tiles, ceiling tiles, caulking, mastics, construction adhesives, etc.

The EPA recommends collecting suspect ACM samples in a manner sufficient to determine asbestos content, and separating suspect ACM into homogenous material types (similar in color, texture, and date of application). The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected for each homogeneous material, but the NESHAP regulation does recommend the use of sampling protocols included in EPA Title 40 CFR, Part 763, Subpart E: Asbestos Hazard Emergency Response Act (AHERA).

The EPA AHERA regulation requires a specific number of samples be collected based on the material type and quantity present. This regulation includes the following protocol:

- 1. Surfacing Materials (e.g., plaster, spray-applied fireproofing, etc.) shall be collected in a randomly-distributed manner representing each homogenous area based on the overall quantity as follows:
 - a. At least three (3) bulk samples collected from each homogenous area that is less than or equal to 1,000 square feet.
 - b. At least five (5) bulk samples collected from each homogenous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.
 - c. At least seven (7) bulk samples collected from each homogenous area that is greater than 5,000 square feet.
- 2. Thermal System Insulation (e.g., pipe insulation, tank insulation, etc.) shall be collected in a randomly-distributed manner representing each homogenous area. At least three (3) bulk samples shall be collected of each homogenous material type. Also, at least one (1) bulk sample of any patching material applied to TSI, presuming the patched area is less than six linear or square feet, shall be collected.



3. Miscellaneous Materials (e.g., floor tile, mastic, cement board, caulking, glazing, etc.) should have at least two (2) bulk samples collected of each homogenous material type. Sample collection shall be conducted in a manner sufficient to determine the asbestos content of the homogenous material type as determined by the inspector.

Suspect ACM samples were collected, and proper chain-of-custody forms were prepared for transmission of collected samples to EMSL Analytical, Inc. (EMSL), for analysis. EMSL is a Rhode Island-licensed and American Industrial Hygiene Association (AIHA)-accredited Asbestos Analytical Laboratory. Initial asbestos sample analysis was conducted using the EPA Interim Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116) via Polarized Light Microscopy with Dispersion Staining (PLM/DS).

The EPA recommends that non-friable, organically-bound (NOB) materials (e.g., asphaltic-based materials, adhesives, caulking, etc.) undergo further confirmatory analysis utilizing Transmission Electron Microscopy (TEM). Five (5) of the collected NOB samples were analyzed by TEM.

2.2 Results

The EPA, the Occupational Safety and Health Administration (OSHA), and RIDOH define a material that contains > 1% asbestos (by PLM/DS analysis) as an ACM.

Refer to **Table 1**, attached, for the complete list of ACM and non-ACM identified by sample identification, material type, sample location, and asbestos content as part of this inspection. Refer to **Table 2**, attached, for the identified ACM inventory.

Refer to Appendix C for the asbestos laboratory analytical reports and chain-of-custody form.

2.3 Conclusions & Recommendations

Based on visual observations, sample collection, and laboratory analysis, ACM were identified at the Site.

Prior to disturbance, ACM that would likely be impacted by the proposed demolition activities must first be abated by a RIDOH-licensed Asbestos Contractor. This is a requirement of RIDOH and EPA NESHAP regulations governing asbestos abatement.

Due to the inability to effectively separate some types of multi-layered ACM from non-ACM, these materials are considered asbestos-contaminated and must be managed as ACM for removal and disposal purposes.

If suspect materials are encountered during demolition activities that are not identified in this report as being non-ACM, they shall be assumed to be ACM until laboratory analysis indicates otherwise.



3 Lead-Based Paint Screening

Fuss & O'Neill performed a LBP screening associated with painted building components at the Site that will be disturbed during demolition activities. Fuss & O'Neill used an X-ray fluorescence (XRF) spectrum analyzer to perform the LBP screening. The screening was conducted in accordance with generally-accepted industry standards for non-residential (i.e., not child-occupied) buildings.

3.1 Methodology

A Radiation Monitoring Device Model LPA-1 (Serial Number 1395) was utilized for the LBP screening. The instrument was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS) prior to each use.

For the purpose of this LBP screening, representative, coated building components were tested for LBP. Individual repainting efforts are not always discernable in such a limited program. LBP issues involving properties that are not residential are only regulated to a limited degree for worker protection relating to LBP-disturbing work activities and waste disposal.

Worker protection is regulated by OSHA regulations, as well as RIDOH regulations. These regulations include air monitoring of workers to determine exposure levels when disturbing lead-containing paint. A LBP screening cannot determine a safe level of lead, but is intended to provide guidance for implementing industry standards for lead in paint at identified locations. Contractors may better determine worker exposure to airborne lead by understanding the different concentrations of LBP on representative components and surfaces. Air monitoring can then be performed during activities that disturb paint on representative surfaces.

The EPA Resource Conservation and Recovery Act (RCRA) and RIDOH regulate lead-containing waste disposal. If lead is determined to be present, representative composite samples of the anticipated waste stream must be collected and analyzed using the Toxicity Characteristic Leaching Procedure (TCLP). The results are compared to a threshold value of 5.0 milligrams per liter (mg/L). If TCLP sample analytical results exceed this value, the waste is characterized as hazardous lead waste. If the result is below the threshold value, the waste material is not considered hazardous and may be disposed as construction and demolition debris.

A level of paint exceeding 1.0 milligram of lead per square centimeter (mg/cm²) of surface area is considered toxic or dangerous by EPA and RIDOH. For the purpose of this screening, the level of 1.0 mg/cm² has been utilized as a guide to segregate coated building materials from general demolition debris for disposal purposes.

3.2 XRF Screening Results

The LBP screening indicated consistent painting trends associated with representative building components that will be impacted by demolition activities. Refer to *Appendix D* for the complete list of building components determined to contain levels of lead $\geq 1.0 \text{ mg/cm}^2$.



3.3 Discussion

OSHA published a Lead in Construction Standard (OSHA Lead Standard) Title 29 CFR, Part 1926.62 in May of 1993. This Standard sets no limit for the content of lead in paint below which the OSHA standards do not apply. The OSHA Lead Standards are task-based and are also based on airborne exposures and blood lead levels.

The results of this LBP screening are intended to provide guidance to contractors for occupational lead exposure controls. Building components coated with lead levels above industry standards may cause exposures to lead above OSHA standards during proposed demolition activities. The results of this screening are also intended to provide insight into waste disposal requirements, in accordance with EPA RCRA regulations. A TCLP sample to characterize the expected waste that will result from demolition activities was not collected as part of this inspection.

3.4 Conclusions & Recommendations

Based on our LBP screening results, LBP was identified on coated building components located at the Site.

Contractors must be made aware that OSHA has not established a level of lead in a material below which OSHA Title 29 CFR, Part 1926.62 does not apply. Contractors shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers during any demolition activities that will impact LBP.

During demolition activities, LBP-coated building components should be segregated from the general demolition waste stream for sample collection and analysis by TCLP to determine proper off-site waste disposal. If disturbed and managed off-site, non-porous LBP-coated building materials (i.e., metals) may be segregated and recycled as scrap metal. Metal LBP-coated building components cannot be subject to grinding, sawing, drilling, sanding, or torch cutting.

4 Fluorescent Light Ballasts & Mercury-Containing Equipment

4.1 Fluorescent Light Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Light ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No PCBs" must be assumed to contain PCBs unless proven otherwise by quantitative analysis. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen, and is listed under RCRA and the Superfund Law as a hazardous waste. Therefore, Superfund liability exists for landfilling both PCB- and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA and require special handling and disposal considerations.



4.2 Mercury-Containing Equipment

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of liquid mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by EPA RCRA regulations.

4.3 Results

On January 13 and 14, 2021, Mr. Mallett of Fuss & O'Neill performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts in the building. The inspection involved visually inspecting labels on representative light ballasts to identify manufacture dates and labels indicating "No PCBs". Ballasts manufactured after 1991 were not listed as PCB- or DEHP-containing ballasts and were not quantified for disposal. An in-place inventory of the fluorescent lamps/tubes and other mercury-containing equipment was completed concurrently.

During this inspection, 262 DEHP-containing fluorescent light ballasts and 262 eight-foot, mercury-containing light tubes were identified within the Site building.

4.4 Conclusions & Recommendations

DEHP-containing fluorescent light ballasts and mercury-containing equipment were identified within the Site building during this inspection.

Fluorescent light ballasts marked as "No PCBs" with date labels indicating manufacture prior to 1991 are presumed to contain DEHP. DEHP-containing ballasts must be segregated for proper packaging, transporting, and disposal as non-PCB hazardous waste. Note that disposal requirements for DEHP-containing ballasts are slightly varied, and disposal costs are slightly less, when compared to PCB-containing light ballasts.

According to the EPA, mercury-containing equipment is characterized as a hazardous waste and mercury lamps/tubes are characterized as a Universal Waste. The mercury-containing equipment and fluorescent lamps/tubes identified within the Site building must be recycled, reclaimed, or disposed of as hazardous waste or Universal Waste prior to building demolition.

This report is not intended to be utilized as a bidding or a project specification document. This report is designed to aid the Client in locating hazardous building materials.

Report prepared by Environmental Analyst, Madelyn Sampson.

Reviewed by:

Dustin A. Diedricksen

Associate | Department Manager



Tables



$\frac{{\it Table}\; 1}{{\it Suspect}\; Asbestos\text{-}Containing}\; {\it Materials}\; Laboratory\; Analytical\; Data\; Summary$

719 River Street Woonsocket, Rhode Island

City of Woonsocket February 2021 Fuss & O'Neill Reference No. 20181545.B10

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
01A-RM-0113	9" x 9" Green Floor Tile	Cat 1 NF	1st Floor, D/A-Side Room	5% Chrysotile	
01B-RM-0113	9" x 9" Green Floor Tile	Cat 1 NF	1st Floor, D/A-Side Room	Pos Stop	
02A-RM-0113	Black Mastic Associated with 9" x 9" Green Floor Tile	Non-ACM	1st Floor, D/A-Side Room	ND	TEM
02B-RM-0113	Black Mastic Associated with 9" x 9" Green Floor Tile	Non-ACM	1st Floor, D/A-Side Room	ND	
03A-RM-0113	Black Floor Paper Associated with Raised Flooring	Non-ACM	1st Floor, Southern Warehouse	ND	
03B-RM-0113	Black Floor Paper Associated with Raised Flooring	Non-ACM	1st Floor, Southern Warehouse	ND	
04A-RM-0113	Brown Floor Paper	Non-ACM	1st Floor, Southern Warehouse	ND	
04B-RM-0113	Brown Floor Paper	Non-ACM	1st Floor, Southern Warehouse	ND	
05A-RM-0113	1' x 1' White Nailed Ceiling Tile	Non-ACM	1st Floor, Southern Warehouse	ND	
05B-RM-0113	1' x 1' White Nailed Ceiling Tile	Non-ACM	1st Floor, Southern Warehouse	ND	
06A-RM-0113	9" x 9" Tan Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse	6% Chrysotile	
06B-RM-0113	9" x 9" Tan Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse	Pos Stop	
07A-RM-0113	Brown Mastic Associated with 9" x 9" Tan Floor Tile	Non-ACM	1st Floor, Southern Warehouse	ND	TEM
07B-RM-0113	Brown Mastic Associated with 9" x 9" Tan Floor Tile	Non-ACM	1st Floor, Southern Warehouse	ND	
08A-RM-0113	9" x 9" Brown Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse	10% Chrysotile	
08B-RM-0113	9" x 9" Brown Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse	Pos Stop	
09A-RM-0113	Brown Mastic Associated with 9" x 9" Brown Floor Tile	Non-ACM	1st Floor, Southern Warehouse	ND	
09B-RM-0113	Brown Mastic Associated with 9" x 9" Brown Floor Tile	Non-ACM	1st Floor, Southern Warehouse	ND	
10A-RM-0113	White Wall Tiles	Non-ACM	1st Floor, Southern Warehouse	ND	
10B-RM-0113	White Wall Tiles	Non-ACM	1st Floor, Southern Warehouse	ND	
11A-RM-0113	12" x 12" Tan Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
11B-RM-0113	12" x 12" Tan Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
12A-RM-0113	Black Mastic Associated with 12" x 12" Tan Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	TEM
12B-RM-0113	Black Mastic Associated with 12" x 12" Tan Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
13A-RM-0113	White Floor Leveling Compound on Hardwood	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
13B-RM-0113	White Floor Leveling Compound on Hardwood	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
14A-RM-0113	4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
14B-RM-0113	4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
15A-RM-0113	Yellow Adhesive Associated with 4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	



$\frac{{\rm Table}\; {\rm 1}}{{\rm Suspect}\; {\rm Asbestos\text{-}Containing}\; {\rm Materials}\; {\rm Laboratory}\; {\rm Analytical}\; {\rm Data}\; {\rm Summary}$

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
15B-RM-0113	Yellow Adhesive Associated with 4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
16A-RM-0113	White Joint Compound	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
16B-RM-0113	White Joint Compound	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
17A-RM-0113	Gray Gypsum Wallboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
17B-RM-0113	Gray Gypsum Wallboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
18A-RM-0113	Brown Masonite Wall Panel Adhesive	Cat 2 NF	1st Floor, Southern Warehouse, Office Areas, Bathroom	2% Chrysotile	
18B-RM-0113	Brown Masonite Wall Panel Adhesive	Cat 2 NF	1st Floor, Southern Warehouse, Office Areas, Bathroom	Pos Stop	
19A-RM-0113	4" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
19B-RM-0113	4" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
20A-RM-0113	Tan Adhesive Associated with 4" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
20B-RM-0113	Tan Adhesive Associated with 4" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
21A-RM-0113	6" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
21B-RM-0113	6" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
22A-RM-0113	Tan Adhesive Associated with 6" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
22B-RM-0113	Tan Adhesive Associated with 6" Black Vinyl Baseboard	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
23A-RM-0113	Tan Linoleum Flooring	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area	ND	
23B-RM-0113	Tan Linoleum Flooring	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area	ND	
24A-RM-0113	Brown Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, Common Area	4% Chrysotile	
24B-RM-0113	Brown Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, Common Area	Pos Stop	
25A-RM-0113	Black Mastic Associated with Brown Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area	ND	
25B-RM-0113	Black Mastic Associated with Brown Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area	ND	
26A-RM-0113	Brown Square-Patterned Linoleum Flooring	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-Side Room	25% Chrysotile	
26B-RM-0113	Brown Square-Patterned Linoleum Flooring	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-Side Room	Pos Stop	
27A-RM-0113	Brown Adhesive Associated with Brown Square-Patterned Linoleum	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-Side Room	ND	
27B-RM-0113	Brown Adhesive Associated with Brown Square-Patterned Linoleum	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-Side Room	ND	
28A-RM-0113	Yellow Adhesive Associated with Tan Linoleum Flooring	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area	ND	
28B-RM-0113	Yellow Adhesive Associated with Tan Linoleum Flooring	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area	ND	
29A-RM-0113	Rectangle White Ceiling Panel	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-Side Room	ND	
29B-RM-0113	Rectangle White Ceiling Panel	Non-ACM	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-Side Room	ND	
30A-RM-0113	12" x 12" Dotted Ceiling Panel	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
30B-RM-0113	12" x 12" Dotted Ceiling Panel	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
31A-RM-0113	Green Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, A-Side Room	5% Chrysotile	
31B-RM-0113	Green Floor Tile	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, A-Side Room	Pos Stop	



$\frac{{\rm Table}\; {\rm 1}}{{\rm Suspect}\; {\rm Asbestos\text{-}Containing}\; {\rm Materials}\; {\rm Laboratory}\; {\rm Analytical}\; {\rm Data}\; {\rm Summary}$

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
32A-RM-0113	Black Mastic Associated with Green Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas, A-Side Room	ND	
32B-RM-0113	Black Mastic Associated with Green Floor Tile	Non-ACM	1st Floor, Southern Warehouse, Office Areas, A-Side Room	ND	
33A-RM-0113	Tan Wall Panel Adhesive Associated with Wood Panels	Non-ACM	1st Floor, Southern Warehouse, Office Areas, A-Side Room, D-Side Room	ND	
33B-RM-0113	Tan Wall Panel Adhesive Associated with Wood Panels	Non-ACM	1st Floor, Southern Warehouse, Office Areas, A-Side Room, D-Side Room	ND	
34A-RM-0113	Black Flooring Strip	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, A-Side Room, D-Side Closet	2% Chrysotile	
34B-RM-0113	Black Flooring Strip	Cat 1 NF	1st Floor, Southern Warehouse, Office Areas, A-Side Room, D-Side Closet	Pos Stop	
35A-RM-0113	White Pipe Insulation	RACM	Basement, Storage Closet	80% Chrysotile	
35B-RM-0113	White Pipe Insulation	RACM	Basement, Storage Closet	Pos Stop	
35C-RM-0113	White Pipe Insulation	RACM	Basement, Storage Closet	Pos Stop	
36A-RM-0113	Tan Window Caulking	Cat 2 NF	Exterior, Basement Windows	5% Chrysotile	
36B-RM-0113	Tan Window Caulking	Cat 2 NF	Exterior, Basement Windows	Pos Stop	
37A-RM-0113	Brown Floor Paper	Non-ACM	2nd Floor, Southern Warehouse	ND	
37B-RM-0113	Brown Floor Paper	Non-ACM	2nd Floor, Southern Warehouse	ND	
38A-RM-0113	White Interior Window Glazing Compound	Non-ACM	2nd Floor, Southern Warehouse	ND	TEM
38B-RM-0113	White Interior Window Glazing Compound	Non-ACM	2nd Floor, Southern Warehouse	ND	
39A-RM-0113	Black Built-Up Roofing - Tar	Non-ACM	Lower Roof, above Main Entrance	ND	
39B-RM-0113	Black Built-Up Roofing - Tar	Non-ACM	Lower Roof, above Main Entrance	ND	
40A-RM-0113	Black Built-Up Roofing - Felt	Non-ACM	Lower Roof, above Main Entrance	ND	
40B-RM-0113	Black Built-Up Roofing - Felt	Non-ACM	Lower Roof, above Main Entrance	ND	
41A-RM-0113	Black Built-Up Roofing - Tar	Cat 1 NF	Southeast Roof	10% Chrysotile	
41B-RM-0113	Black Built-Up Roofing - Tar	Cat 1 NF	Southeast Roof	Pos Stop	
42A-RM-0113	Black Built-Up Roofing - Felt	Not Analyzed	Southeast Roof	Not Analyzed	
42B-RM-0113	Black Built-Up Roofing - Felt	Not Analyzed	Southeast Roof	Not Analyzed	
43A-RM-0113	Black Built-Up Roofing - Tar	Non-ACM	Collapsed Roof Section (Warehouse)	ND	
43B-RM-0113	Black Built-Up Roofing - Tar	Non-ACM	Collapsed Roof Section (Warehouse)	ND	
44A-RM-0113	Black Built-Up Roofing - Felt	Non-ACM	Collapsed Roof Section (Warehouse)	ND	
44B-RM-0113	Black Built-Up Roofing - Felt	Non-ACM	Collapsed Roof Section (Warehouse)	ND	
45A-RM-0113	Black Floor Paper	Non-ACM	2nd Floor, Collapsed Roof Section	ND	
45B-RM-0113	Black Floor Paper	Non-ACM	2nd Floor, Collapsed Roof Section	ND	
46A-RM-0113	Black Roofing Debris	Non-ACM	Collapsed Roof Section (Middle Section)	ND	
46B-RM-0113	Black Roofing Debris	Non-ACM	Collapsed Roof Section (Middle Section)	ND	
47A-RM-0113	Reinforced Concrete Panel	Cat 2 NF	1st Floor, Collapsed Roof Section, Debris Pile	15% Chrysotile	
47B-RM-0113	Reinforced Concrete Panel	Cat 2 NF	1st Floor, Collapsed Roof Section, Debris Pile	Pos Stop	



$\frac{{\rm Table}\; 1}{{\rm Suspect}\; {\rm Asbestos\text{-}Containing}\; {\rm Materials}\; {\rm Laboratory}\; {\rm Analytical}\; {\rm Data}\; {\rm Summary}$

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
48A-RM-0113	Black Roofing Debris	Cat 1 NF	1st Floor, Nothern Warehouse, Debris Pile	5% Chrysotile	
48B-RM-0113	Black Roofing Debris	Cat 1 NF	1st Floor, Nothern Warehouse, Debris Pile	Pos Stop	
49A-RM-0113	12" x 12" Brown Floor Tile	Non-ACM	1st Floor, Nothern Warehouse	ND	
49B-RM-0113	12" x 12" Brown Floor Tile	Non-ACM	1st Floor, Nothern Warehouse	ND	
50A-RM-0113	Yellow Mastic Associated with 12" x 12" Brown Floor Tile	Non-ACM	1st Floor, Nothern Warehouse	ND	TEM
50B-RM-0113	Yellow Mastic Associated with 12" x 12" Brown Floor Tile	Non-ACM	1st Floor, Nothern Warehouse	ND	
51A-RM-0113	4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Nothern Warehouse	ND	
51B-RM-0113	4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Nothern Warehouse	ND	
52A-RM-0113	Yellow Adhesive Associated with 4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Nothern Warehouse	ND	
52B-RM-0113	Yellow Adhesive Associated with 4" Brown Vinyl Baseboard	Non-ACM	1st Floor, Nothern Warehouse	ND	
53A-RM-0113	Tan Wall Panel Adhesive	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
53B-RM-0113	Tan Wall Panel Adhesive	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
54A-RM-0113	White Joint Compound	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
54B-RM-0113	White Joint Compound	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
54C-RM-0113	White Joint Compound	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
55A-RM-0113	Gray Gypsum Board	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
55B-RM-0113	Gray Gypsum Board	Non-ACM	1st Floor, Nothern Warehouse, Office Area, Hallway	ND	
56A-RM-0113	Black Siding Paper	Non-ACM	Exterior, A-Side	ND	
56B-RM-0113	Black Siding Paper	Non-ACM	Exterior, A-Side	ND	
57A-RM-0113	Gray Parging Cement	Non-ACM	Exterior, Debris, A-Side	ND	
57B-RM-0113	Gray Parging Cement	Non-ACM	Exterior, Debris, A-Side	ND	
58A-RM-0113	White Skim Coat Plaster	Non-ACM	Exterior, Debris, A-Side	ND	
58B-RM-0113	White Skim Coat Plaster	Non-ACM	Exterior, Debris, A-Side	ND	
58C-RM-0113	White Skim Coat Plaster	Non-ACM	Exterior, Debris, A-Side	ND	
59A-RM-0113	Gray Rough Coat Plaster	Non-ACM	Exterior, Debris, A-Side	ND	
59B-RM-0113	Gray Rough Coat Plaster	Non-ACM	Exterior, Debris, A-Side	ND	
59C-RM-0113	Gray Rough Coat Plaster	Non-ACM	Exterior, Debris, A-Side	ND	
60A-RM-0113	Gray Ceramic Floor Tile Grout	Non-ACM	Exterior, Debris, A-Side	ND	
60B-RM-0113	Gray Ceramic Floor Tile Grout	Non-ACM	Exterior, Debris, A-Side	ND	
61A-RM-0113	Black Roofing Debris	Non-ACM	Exterior, Debris, A-Side	ND	
61B-RM-0113	Black Roofing Debris	Non-ACM	Exterior, Debris, A-Side	ND	
61C-RM-0113	Black Roofing Debris	Non-ACM	Exterior, Debris, A-Side	ND	
61D-RM-0113	Black Roofing Debris	Non-ACM	Exterior, Debris, A-Side	ND	



$\frac{Table\ 1}{Suspect\ Asbestos-Containing\ Materials\ Laboratory\ Analytical\ Data\ Summary}$

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
62A-RM-0113	Yellow Adhesive Associated with Window Sill Paper	Non-ACM	1st Floor, Southern Warehouse, Office Areas, A-Side Windows	ND	
62B-RM-0113	Yellow Adhesive Associated with Window Sill Paper	Non-ACM	1st Floor, Southern Warehouse, Office Areas, A-Side Windows	ND	
63A-RM-0113	White Interior Window Glazing Compound	Cat 2 NF	1st Floor, Nothern Warehouse	2% Chrysotile	
63B-RM-0113	White Interior Window Glazing Compound	Cat 2 NF	1st Floor, Nothern Warehouse	Pos Stop	
64A-RM-0113	Gray Ceramic Floor Tile Thin-Set Mortar	Non-ACM	Exterior, Debris Pile, B-Side	ND	
64B-RM-0113	Gray Ceramic Floor Tile Thin-Set Mortar	Non-ACM	Exterior, Debris Pile, B-Side	ND	
65A-RM-0113	Black Roofing Debris	Non-ACM	Exterior, Debris Pile, B-Side	ND	
65B-RM-0113	Black Roofing Debris	Non-ACM	Exterior, Debris Pile, B-Side	ND	
66A-RM-0113	Yellow Wall Panel Adhesive	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	
66B-RM-0113	Yellow Wall Panel Adhesive	Non-ACM	1st Floor, Southern Warehouse, Office Areas	ND	

ACM = Asbestos-Containing Material

ND = None Detected

Pos Stop = Positive Stop

RACM = Regulated Asbestos-Containing Material

TEM = Transmission Electron Microscopy

Note: Perimeter wall sides are identified with letter A, B, C, and D. Side A is the street side for the address. Side, B, C, and D are identified clockwise from Side A as one faces the Site building.



<u>Table 2</u> Asbestos-Containing Materials Summary

719 River Street Woonsocket, Rhode Island

City of Woonsocket February 2021 Fuss & O'Neill Reference No. 20181545.B10

Asbestos-Containing Material Type	Locations(s)	Asbestos Content	Estimated Total Quantity
9" x 9" Green Floor Tile		5% Chrysotile	
9" x 9" Tan Floor Tile		6% Chrysotile	
9" x 9" Brown Floor Tile		10% Chrysotile	
Brown Floor Tile	South Building, Office Area	4% Chrysotile	2,000 SF
Brown Square-Patterned Linoleum Flooring		25% Chrysotile	
Green Floor Tile		5% Chrysotile	
Black Flooring Strip		2% Chrysotile	
Brown Masonite Wall Panel Adhesive	South Building, Office Area Bathrooms	2% Chrysotile	300 SF
White Pipe Insulation	Basement, Storage Closet	80% Chrysotile	15 LF
Tan Window Caulking	South Building	5% Chrysotile	40 EA
Black Built-Up Roofing - Tar	Southeast Roof	10% Chrysotile	8,500 SF
Reinforced Concrete Panel	1st Floor, Nothern Warehouse, Debris Pile	15% Chrysotile	375 CY
Black Roofing Debris	1st Floor, Nothern Warehouse, Debris Pile	5% Chrysotile	3/3 (1
White Interior Window Glazing Compound	1st Floor, Nothern Warehouse	2% Chrysotile	10 EA

CY = Cubic Yard; EA = Each, LF = Linear Feet, SF = Square Feet



Appendix A

Limitations



APPENDIX A

719 River Street Woonsocket, Rhode Island

- 1. This environmental report has been prepared for the exclusive use of the Client, and is subject to, and is issued in connection with, the general terms and conditions of the original Agreement (October 7, 2020) and all of its provisions. Any use or reliance upon information provided in this report, without the specific written authorization of the Client and Fuss & O'Neill, shall be at the User's individual risk. This report should not be used as an abatement specification. All quantities of materials identified during this inspection are approximate.
- 2. Fuss & O'Neill has obtained and relied upon laboratory analytical results in conducting the inspection. This information was used to form conclusions regarding the types and quantities of ACM that must be managed prior to renovation or demolition activities that may disturb these materials at the subject property. Fuss & O'Neill has not performed an independent review of the reliability of this laboratory data.
- 3. Unless otherwise noted, only suspect hazardous materials associated within or located on the building (aboveground) were included in this inspection. Suspect hazardous materials may exist below the ground surfaces that were not included in the scope of work of this inspection. Fuss & O'Neill cannot guarantee all asbestos or suspect hazardous materials were identified within the areas included in the scope of work. Only visible and accessible areas were included in the scope of work for this inspection.
- 4. The findings, observations, and conclusions presented in this report are limited by the scope of services outlined in our original Agreement, which reflects schedule and budgetary constraints imposed by the Client. Furthermore, the assessment has been conducted in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made.
- 5. The conclusions presented in this report are based solely upon information gathered by Fuss & O'Neill to date. Should further environmental or other relevant information be discovered at a later date, the Client should immediately bring the information to Fuss & O'Neill's attention. Based upon an evaluation and assessment of relevant information, Fuss & O'Neill may modify the report and its conclusions.



Appendix B

Fuss & O'Neill Asbestos Inspector State Certification & EPA Accreditation

Rhode Island Department of Health Asbestos Program Asbestos Inspector

ROBERT C MALLETT

Exp. Date: 04/30/2021 License #: Al00978 Member of C.O.N.E.S.





State of Rhode Island and Providence Plantations DEPARTMENT OF HEALTH CENTER FOR HEALTHY HOMES & ENVIRONMENT – ASBESTOS PROGRAM

ASBESTOS CONSULTANT CERTIFICATION

Pursuant to the Asbestos Abatement Act, Chapter 24.5 of Title 23 of the Rhode Island General Laws, and Regulation 216-RICR-50-15-1 – Asbestos Control, this license is hereby issued as designated below. This license is subject to all applicable rules, regulations, orders and notices of the Department of Health now or hereafter in effect and to any conditions delineated below.

Certificate Holder: ROBERT C MALLETT

Address: FUSS AND ONEILL ENVIROSCIENCE LLC

108 MYRTLE ST STE 502

QUINCY MA 02171

Certification Number: AI00978

Type of Certification: Asbestos Inspector

Expiration Date: 04/30/2021

Except as specifically provided otherwise in this Certificate, Certificate holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements, representations and procedures in the Certificate Holder's application and documentation are more restrictive than the regulations.

Raquel Barrera

Sr. Community Program Liaison Worker

Healthy Homes and Environment

aguel Barrera



Appendix C

Asbestos Laboratory Analytical Reports & Chain-of-Custody Forms



Fuss & O'Neill, Inc.

Attention: Robert Mallett

EMSL Order: 132100449 **Customer ID:** ENVI54 **Customer PO:** 20181545.B10

Project ID:

Phone: (860) 646-2469

Fax:

 146 Hartford Road
 Received Date:
 01/18/2021 8:40 AM

 Manchester, CT 06040
 Analysis Date:
 01/22/2021 - 01/23/2021

Collected Date: 01/13/2021

Project: 20181545.B10 - 719 River Street; Woonsocket, RI

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
01A-RM-0113	1st Floor, D/A-side Room - 9"x9" Green Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
01B-RM-0113	1st Floor, D/A-side Room - 9"x9" Green	Homogeneous			Positive Stop (Not Analyzed)
132100449-0002	Floor Tile				
02A-RM-0113	1st Floor, D/A-side Room - Black Mastic	Black Non-Fibrous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
132100449-0003	Assoc. w/ 01	Homogeneous			
02B-RM-0113 132100449-0004	1st Floor, D/A-side Room - Black Mastic Assoc. w/ 01	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
		•	80% Cellulose	200/ Non fibratio (Other)	None Detected
03A-RM-0113 132100449-0005	1st Floor, Southern Warehouse - Black Floor Paper Assoc. w/ Raised Flooring	Black Non-Fibrous Homogeneous	60 % Cellulose	20% Non-fibrous (Other)	Notic Detected
03B-RM-0113	1st Floor, Southern Warehouse - Black	Black Non-Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
132100449-0006	Floor Paper Assoc. w/ Raised Flooring	Homogeneous			
04A-RM-0113	1st Floor, Southern Warehouse - Brown	Brown Non-Fibrous	95% Cellulose 2% Glass	3% Non-fibrous (Other)	None Detected
132100449-0007	Floor Paper	Homogeneous			
04B-RM-0113	1st Floor, Southern Warehouse - Brown Floor Paper	Brown Non-Fibrous Homogeneous	90% Cellulose 3% Glass	7% Non-fibrous (Other)	None Detected
05A-RM-0113	1st Floor, Southern	White	98% Cellulose	2% Non-fibrous (Other)	None Detected
132100449-0009	Warehouse - 1'x1' White Nailed Ceiling Tile	Non-Fibrous Homogeneous	30 % Cellulose	270 Non-librous (Outer)	None Detected
05B-RM-0113 132100449-0010	1st Floor, Southern Warehouse - 1'x1' White Nailed Ceiling	White Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
	Tile				
06A-RM-0113	1st Floor, Southern Warehouse - 9"x9"	Tan Non-Fibrous		94% Non-fibrous (Other)	6% Chrysotile
132100449-0011	Tan Floor Tile	Homogeneous			
06B-RM-0113	1st Floor, Southern Warehouse - 9"x9"				Positive Stop (Not Analyzed)
32100449-0012	Tan Floor Tile				
97A-RM-0113	1st Floor, Southern Warehouse - Brown	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0013	Mastic Assoc. w/ 06	Homogeneous		1000/ Non 5h (Other)	None Detected
07B-RM-0113 132100449-0014	1st Floor, Southern Warehouse - Brown Mastic Assoc. w/ 06	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
08A-RM-0113	1st Floor, Southern	Homogeneous Brown		90% Non-fibrous (Other)	10% Chrysotile
132100449-0015	Warehouse - 9"x9" Brown Floor Tile	Non-Fibrous Homogeneous			

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbe % Fibrous	<u>stos</u> % Non-Fibrous	<u>Asbestos</u> % Type
8B-RM-0113 32100449-0016	1st Floor, Southern Warehouse - 9"x9" Brown Floor Tile				Positive Stop (Not Analyzed)
09A-RM-0113	1st Floor, Southern Warehouse - Brown Mastic Assoc. w/ 08	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B-RM-0113	1st Floor, Southern Warehouse - Brown Mastic Assoc. w/ 08	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
32100449-0018 10A-RM-0113	1st Floor, Southern Warehouse - White	Homogeneous White Non-Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
32100449-0019 10B-RM-0113	Wall Tiles 1st Floor, Southern Warehouse - White	Homogeneous White Non-Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
132100449-0020	Wall Tiles	Homogeneous			
11A-RM-0113 132100449-0021	1st Floor, Southern Warehouse, Office Areas - 12"x12" Tan Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11B-RM-0113	1st Floor, Southern Warehouse, Office Areas - 12"x12" Tan Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12A-RM-0113	1st Floor, Southern Warehouse, Office Areas - Black Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	Assoc. w/ 11				
12B-RM-0113 132100449-0024	1st Floor, Southern Warehouse, Office Areas - Black Mastic Assoc. w/ 11	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13A-RM-0113 132100449-0025	1st Floor, Southern Warehouse, Office Areas - White Floor Leveling Compound on Hardwood	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13B-RM-0113 132100449-0026	1st Floor, Southern Warehouse, Office Areas - White Floor Leveling Compound on Hardwood	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A-RM-0113	1st Floor, Southern Warehouse, Office	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0027	Areas - 4" Brown Vinyl Baseboard	Homogeneous			
14B-RM-0113	1st Floor, Southern Warehouse, Office	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0028	Areas - 4" Brown Vinyl Baseboard	Homogeneous			
15A-RM-0113	1st Floor, Southern Warehouse, Office	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
32100449-0029	Areas - Yellow Adhesive Assoc. w/ 14	Homogeneous			
15B-RM-0113	1st Floor, Southern Warehouse, Office	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0030	Areas - Yellow Adhesive Assoc. w/ 14	Homogeneous			

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
16A-RM-0113 132100449-0031	1st Floor, Southern Warehouse, Office Areas - White Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
16B-RM-0113	1st Floor, Southern Warehouse, Office	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
132100449-0032	Areas - White Joint Compound	Homogeneous				
17A-RM-0113	1st Floor, Southern Warehouse, Office	Brown/Gray Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
132100449-0033	Areas - Gray Gypsum Wallboard	Homogeneous				
17B-RM-0113	1st Floor, Southern Warehouse, Office	Brown/Gray Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
132100449-0034	Areas - Gray Gypsum Wallboard	Homogeneous				
18A-RM-0113 132100449-0035	1st Floor, Southern Warehouse, Office Areas, Bathroom - Brown Masonite Wall Panel Adhesive	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile	
18B-RM-0113	1st Floor, Southern Warehouse, Office Areas, Bathroom - Brown Masonite Wall Panel Adhesive				Positive Stop (Not Analyzed)	
19A-RM-0113	1st Floor, Southern Warehouse, Office	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
132100449-0037	Areas - 4" Black Vinyl Baseboard	Homogeneous				
19B-RM-0113 132100449-0038	1st Floor, Southern Warehouse, Office Areas - 4" Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
20A-RM-0113 132100449-0039	1st Floor, Southern Warehouse, Office Areas - Tan Adhesive Assoc. w/ 19	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
20B-RM-0113 132100449-0040	1st Floor, Southern Warehouse, Office Areas - Tan Adhesive Assoc. w/ 19	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
21A-RM-0113 132100449-0041	1st Floor, Southern Warehouse, Office Areas - 6" Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
21B-RM-0113 132100449-0042	1st Floor, Southern Warehouse, Office Areas - 6" Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
22A-RM-0113	1st Floor, Southern Warehouse, Office Areas - Tan Adhesive Assoc. w/ 21	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
22B-RM-0113	1st Floor, Southern Warehouse, Office Areas - Tan Adhesive Assoc. w/ 21	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Samuela.	Decembries	A	Non-Asbe		Asbestos
Sample 23A-RM-0113	Description 1st Floor, Southern	Appearance Tan	% Fibrous 35% Cellulose	% Non-Fibrous	% Type None Detected
23A-RW-U113 132100449-0045	Warehouse, Office Areas, Common Area - Tan Linoleum Flooring	Non-Fibrous Homogeneous	5% Glass	60% Non-fibrous (Other)	None Detected
23B-RM-0113 132100449-0046	1st Floor, Southern Warehouse, Office Areas, Common Area - Tan Linoleum Flooring	Tan Non-Fibrous Homogeneous	35% Cellulose 5% Glass	60% Non-fibrous (Other)	None Detected
24A-RM-0113 132100449-0047	1st Floor, Southern Warehouse, Office Areas, Common Area - Brown Floor Tile	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
24B-RM-0113 132100449-0048	1st Floor, Southern Warehouse, Office Areas, Common Area				Positive Stop (Not Analyzed)
25A-RM-0113	- Brown Floor Tile 1st Floor, Southern Warehouse, Office Areas, Common Area - Black Mastic Assoc. w/ 24	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25B-RM-0113 132100449-0050	1st Floor, Southern Warehouse, Office Areas, Common Area - Black Mastic Assoc. w/ 24	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26A-RM-0113 132100449-0051	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room - Brown Square Patterned Linoleum	Brown Non-Fibrous Homogeneous	40% Cellulose	35% Non-fibrous (Other)	25% Chrysotile
26B-RM-0113 132100449-0052	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room - Brown Square Patterned Linoleum				Positive Stop (Not Analyzed)
27A-RM-0113 132100449-0053	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room - Brown Adhesive Assoc. w/ 26	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27B-RM-0113 132100449-0054	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room - Brown Adhesive Assoc. w/ 26	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28A-RM-0113 132100449-0055	1st Floor, Southern Warehouse, Office Areas, Common Area - Yellow Adhesive Assoc. w/ 23	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	stos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
28B-RM-0113 132100449-0056	1st Floor, Southern Warehouse, Office Areas, Common Area - Yellow Adhesive Assoc. w/ 23	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29A-RM-0113 132100449-0057	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room - Rectangle White Ceiling Panel	White Non-Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
29B-RM-0113 132100449-0058	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room - Rectangle White Ceiling Panel	White Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
30A-RM-0113 132100449-0059	1st Floor, Southern Warehouse, Office Areas - 12"x12" Dotted Ceiling Panel	White Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
30B-RM-0113 132100449-0060	1st Floor, Southern Warehouse, Office Areas - 12"x12" Dotted Ceiling Panel	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
31A-RM-0113 132100449-0061	1st Floor, Southern Warehouse, Office Areas, A-side Room - Green Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
31B-RM-0113 132100449-0062	1st Floor, Southern Warehouse, Office Areas, A-side Room - Green Floor Tile				Positive Stop (Not Analyzed
32A-RM-0113 132100449-0063	1st Floor, Southern Warehouse, Office Areas, A-side Room - Black Mastic Assoc. w/ 31	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32B-RM-0113 132100449-0064	1st Floor, Southern Warehouse, Office Areas, A-side Room - Black Mastic Assoc. w/ 31	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33A-RM-0113 132100449-0065	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Room - Tan Wall Panel Adhesive Assoc. w/ Wood Panels	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33B-RM-0113 132100449-0066	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Room - Tan Wall Panel Adhesive Assoc. w/ Wood Panels	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

_	_		Non-Asbes		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
34A-RM-0113 32100449-0067	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Closet - Black Flooring Strip	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
34B-RM-0113	1st Floor, Southern				Positive Stop (Not Analyzed)
132100449-0068	Warehouse, Office Areas, A-side Room, D-side Closet - Black Flooring Strip				rosilive Stop (Not Arialyzeu
35A-RM-0113	Basement, Storage Closet - White Pipe	White Fibrous		20% Non-fibrous (Other)	80% Chrysotile
132100449-0069	Insulation	Homogeneous			
35B-RM-0113	Basement, Storage Closet - White Pipe				Positive Stop (Not Analyzed
132100449-0070	Insulation				Danisius Chan (Nat Amalumas)
35C-RM-0113	Basement, Storage Closet - White Pipe Insulation				Positive Stop (Not Analyzed)
36A-RM-0113	Exterior, Basement	Tan		95% Non-fibrous (Other)	5% Chrysotile
132100449-0072	Windows - Tan Window Caulking	Non-Fibrous Homogeneous		93 % Noti-fibrous (Ottlet)	370 Offiysotile
36B-RM-0113	Exterior, Basement Windows - Tan				Positive Stop (Not Analyzed
132100449-0073	Window Caulking				
37A-RM-0113	2nd Floor, Southern Warehouse - Brown	Tan Fibrous	95% Cellulose	5% Non-fibrous (Other)	None Detected
132100449-0074	Floor Paper	Homogeneous			
37B-RM-0113	2nd Floor, Southern Warehouse - Brown	Tan Fibrous	95% Cellulose	5% Non-fibrous (Other)	None Detected
132100449-0075	Floor Paper	Homogeneous		4000/ New Shares (Others)	Nama Datastad
38A-RM-0113 132100449-0076	2nd Floor, Southern Warehouse - White Interior Window Glazing	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38B-RM-0113	2nd Floor, Southern	White		100% Non-fibrous (Other)	None Detected
132100449-0077	Warehouse - White Interior Window Glazing	Non-Fibrous Homogeneous			
39A-RM-0113	Lower Roof, Above Main Entrance - Black	Black Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
132100449-0078	Built-up Roofing - Tar	Homogeneous			
39B-RM-0113	Lower Roof, Above Main Entrance - Black	Black Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
132100449-0079	Built-up Roofing - Tar	Homogeneous	000/ 01	000/ Now Story (01)	Manager 1
10A-RM-0113 132100449-0080	Lower Roof, Above Main Entrance - Black Built-up Roofing - Felt	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
40B-RM-0113	Lower Roof, Above	Black	20% Glass	80% Non-fibrous (Other)	None Detected
32100449-0081	Main Entrance - Black Built-up Roofing - Felt	Fibrous Homogeneous	20 /0 Glass	oo /o tvoti-librous (Ottlet)	None Detected
11A-RM-0113	Southeast Roof -	Black		90% Non-fibrous (Other)	10% Chrysotile
32100449-0082	Black Built-up Roofing - Tar	Non-Fibrous Homogeneous		5570 Holl-librous (Ottiel)	1070 Offiyadile
41B-RM-0113	Southeast Roof - Black Built-up Roofing	-			Positive Stop (Not Analyzed
132100449-0083	- Tar				

EMSL Order: 132100449 Customer ID: ENVI54 **Customer PO:** 20181545.B10

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

			Non-Asbe	<u>stos</u>	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
12A-RM-0113	Southeast Roof - Black Built-up Roofing				Insufficient Material
32100449-0084	- Felt				
42B-RM-0113	Southeast Roof - Black Built-up Roofing				Insufficient Material
132100449-0085	- Felt				
43A-RM-0113	Collapsed Roof Section - Black	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0086	Built-up Roofing - Tar	Homogeneous			
43B-RM-0113	Collapsed Roof Section - Black	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0087	Built-up Roofing - Tar	Homogeneous			
44A-RM-0113	Collapsed Roof Section - Black	Black Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
132100449-0088	Built-up Roofing - Felt	Homogeneous			
44B-RM-0113	Collapsed Roof Section - Black	Black Non-Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
132100449-0089	Built-up Roofing - Felt	Homogeneous			
45A-RM-0113	2nd Floor, Collapsed Roof Section - Black	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
132100449-0090	Floor Paper	Homogeneous			
45B-RM-0113	2nd Floor, Collapsed Roof Section - Black	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
132100449-0091	Floor Paper	Homogeneous			
46A-RM-0113	Collapsed Roof Section - Black	Black Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
132100449-0092	Roofing Debris	Homogeneous			
46B-RM-0113	Collapsed Roof Section - Black	Black Non-Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
132100449-0093	Roofing Debris	Homogeneous			
47A-RM-0113	1st Floor, Collapsed Roof Section, Debris	Gray Fibrous		85% Non-fibrous (Other)	15% Chrysotile
132100449-0094	Pile - Reinforced Concrete Panel	Homogeneous			
47B-RM-0113	1st Floor, Collapsed Roof Section, Debris				Positive Stop (Not Analyzed)
132100449-0095	Pile - Reinforced Concrete Panel				
48A-RM-0113	1st Floor, Nothern Warehouse, Debris	Black Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132100449-0096	Pile - Black Roofing Debris	Homogeneous			
48B-RM-0113	1st Floor, Nothern Warehouse, Debris				Positive Stop (Not Analyzed)
132100449-0097	Pile - Black Roofing Debris				
49A-RM-0113	1st Floor, Nothern Warehouse - 12"x12"	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0098	Brown Floor Tile	Homogeneous			
49B-RM-0113	1st Floor, Nothern Warehouse - 12"x12"	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0099	Brown Floor Tile	Homogeneous			
50A-RM-0113	1st Floor, Nothern Warehouse - Yellow	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0100	Mastic Assoc. w/ 49	Homogeneous			
50B-RM-0113	1st Floor, Nothern Warehouse - Yellow	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0101	Mastic Assoc. w/ 49	Homogeneous			

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
51A-RM-0113 132100449-0102	1st Floor, Nothern Warehouse - 4" Brown Vinyl	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
 51B-RM-0113	Baseboard 1st Floor, Nothern	Brown		100% Non-fibrous (Other)	None Detected
132100449-0103	Warehouse - 4" Brown Vinyl Baseboard	Non-Fibrous Homogeneous			
52A-RM-0113 132100449-0104	1st Floor, Nothern Warehouse - Yellow Adhesive Assoc. w/	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	51				
52B-RM-0113 132100449-0105	1st Floor, Nothern Warehouse - Yellow Adhesive Assoc. w/ 51	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53A-RM-0113	1st Floor, Nothern Warehouse, Office Area, Hallway - Tan	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
192100449-0100	Wall Panel Adhesive	Homogeneous			
53B-RM-0113	1st Floor, Nothern Warehouse, Office Area, Hallway - Tan	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
54A-RM-0113	Wall Panel Adhesive 1st Floor, Nothern Warehouse, Office	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0108	Area, Hallway - White Joint Compound	Homogeneous			
54B-RM-0113	1st Floor, Nothern Warehouse, Office Area, Hallway - White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	Joint Compound				
54C-RM-0113	1st Floor, Nothern Warehouse, Office Area, Hallway - White	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Sample apears to be gyp	Joint Compound				
55A-RM-0113	1st Floor, Nothern Warehouse, Office	Gray/Tan Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
132100449-0111	Area, Hallway - Gray Gypsum Board	Homogeneous			
55B-RM-0113	1st Floor, Nothern Warehouse, Office	Gray/Tan Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
132100449-0112	Area, Hallway - Gray Gypsum Board	Homogeneous			
56A-RM-0113	Exterior, A-side - Black Siding Paper	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
132100449-0113		Homogeneous			
56B-RM-0113	Exterior, A-side - Black Siding Paper	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
132100449-0114	Education B. L. C	Homogeneous		4000/ Nov. 51 (011)	No. D. C. C.
57A-RM-0113 132100449-0115	Exterior, Debris, A-side - Gray Parging Cement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
57B-RM-0113	Exterior, Debris, A-side - Gray Parging	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0116	Cement	Homogeneous			

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
58A-RM-0113	Exterior, Debris, A-side - White Skim Coat Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
58B-RM-0113	Exterior, Debris, A-side - White Skim Coat Plaster	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0118 58C-RM-0113	Exterior, Debris, A-side - White Skim	Homogeneous White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0119	Coat Plaster	Homogeneous			
59A-RM-0113	Exterior, Debris, A-side - Gray Rough	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0120	Coat Plaster	Homogeneous			
59B-RM-0113	Exterior, Debris, A-side - Gray Rough Coat Plaster	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0121		Homogeneous		1000(N 51 (OIL)	
59C-RM-0113	Exterior, Debris, A-side - Gray Rough Coat Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60A-RM-0113	Exterior, Debris,	Gray		100% Non-fibrous (Other)	None Detected
132100449-0123	A-side - Gray Ceramic Floor Tile Grout	Non-Fibrous Homogeneous		100 % NOTHIDIOUS (Catery	None Beledied
60B-RM-0113	Exterior, Debris, A-side - Gray	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0124	Ceramic Floor Tile Grout	Homogeneous			
61A-RM-0113	Exterior, Debris, A-side - Black	Black Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
132100449-0125	Roofing Debris	Homogeneous			
61B-RM-0113 132100449-0126	Exterior, Debris, A-side - Black Roofing Debris	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
	•	Black	40% Colluloso	60% Non fibrous (Other)	None Detected
61C-RM-0113 132100449-0127	Exterior, Debris, A-side - Black Roofing Debris	Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
61D-RM-0113	Exterior, Debris,	Black	40% Cellulose	60% Non-fibrous (Other)	None Detected
132100449-0128	A-side - Black Roofing Debris	Fibrous Homogeneous		,	
62A-RM-0113	1st Floor, Southern	Yellow		100% Non-fibrous (Other)	None Detected
132100449-0129	Warehouse, Office Areas, A-side Windows - Yellow Adhesive Assoc. w/ Window Sill Paper	Non-Fibrous Homogeneous			
62B-RM-0113	1st Floor, Southern Warehouse, Office	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100449-0130	Areas, A-side Windows - Yellow Adhesive Assoc. w/ Window Sill Paper	Homogeneous			
63A-RM-0113	1st Floor, Nothern Warehouse - White	White Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
132100449-0131	Interior Window Glazing	Homogeneous			
63B-RM-0113	1st Floor, Nothern Warehouse - White				Positive Stop (Not Analyzed)
132100449-0132	Interior Window Glazing				



EMSL Order: 132100449 **Customer ID:** ENVI54 **Customer PO:** 20181545.B10

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	Non-Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
64A-RM-0113 132100449-0133	Exterior, Debris Pile, B-side - Gray Ceramic Floor Tile Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
64B-RM-0113 132100449-0134	Exterior, Debris Pile, B-side - Gray Ceramic Floor Tile Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65A-RM-0113 132100449-0135	Exterior, Debris Pile, B-side - Black Roofing Debris	Black Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
65B-RM-0113	Exterior, Debris Pile, B-side - Black Roofing Debris	Black Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
66A-RM-0113 132100449-0137	1st Floor, Southern Warehouse, Office Areas - Yellow Wall Panel Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
66B-RM-0113 132100449-0138	1st Floor, Southern Warehouse, Office Areas - Yellow Wall Panel Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Kevin Pine (64) Valerica Stanca (57) Steve Grise, Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039



Fuss & O'Neill, Inc.

146 Hartford Road

Manchester, CT 06040

Attention: Robert Mallett

EMSL Order: 132100449 **Customer ID:** ENVI54 **Customer PO:** 20181545.B10

Project ID:

Phone: (860) 646-2469

Fax:

Received Date: 01/18/2021 8:40 AM

Analysis Date: 01/28/2021 **Collected Date:** 01/13/2021

Project: 20181545.B10 - 719 River Street; Woonsocket, RI

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
02A-RM-0113 132100449-0003	1st Floor, D/A-side Room - Black Mastic Assoc. w/ 01	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
07A-RM-0113 132100449-0013	1st Floor, Southern Warehouse - Brown Mastic Assoc. w/ 06	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
12A-RM-0113 132100449-0023	1st Floor, Southern Warehouse, Office Areas - Black Mastic Assoc. w/ 11	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
38A-RM-0113 132100449-0076	2nd Floor, Southern Warehouse - White Interior Window Glazing	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
50A-RM-0113 132100449-0100	1st Floor, Nothern Warehouse - Yellow Mastic Assoc. w/ 49	Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)	
Matthew Conley (5)	

Steve Grise, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA

EMSL Customer No. ENVI54

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108 Myrtle Street, Suite 502, Quincy, MA 02171

OrderID: 132100449

Phone (617) 282-4675 Fax (617) 282-8253

	Asbestos Bulk Sample Chain-oi-Custody Form Sheet 1 of 6
Project Name: 719 River Street	Project No.:20181545.B10 Task:
Building Name/Number:	Project Manager: Patrick Dowling

Site Address: 719 River Street, Woonsocket, RI Total # of Samples: 138

Sample ID (#-Initials-Date)	Material Type (Size, Color, Description, Material)	Sample Location	Comments/ Quantities
01A-RM-0113	9" by 9" Green Floor Tile	1st Floor, D/A-side Room	
01B-RM-0113	9" by 9" Green Floor Tile	1st Floor, D/A-side Room	
02A-RM-0113	Black Mastic Associated with Sample 01	1st Floor, D/A-side Room	
02B-RM-0113	Black Mastic Associated with Sample	1st Floor, D/A-side Room	
03A-RM-0113	Black Floor Paper Associated with Raised Flooring	1st Floor, Southern Warehouse	
03B-RM-0113	Black Floor Paper Associated with Raised Flooring	1st Floor, Southern Warehouse	
04A-RM-0113	Brown Floor Paper	1st Floor, Southern Warehouse	
04B-RM-0113	Brown Floor Paper	1st Floor, Southern Warehouse	
05A-RM-0113	1' by 1' White Nailed Ceiling Tile	1st Floor, Southern Warehouse	
05B-RM-0113	1' by 1' White Nailed Ceiling Tile	1st Floor, Southern Warehouse	
06A-RM-0113	9" by 9" Tan Floor Tile	1st Floor, Southern Warehouse	
06B-RM-0113	9" by 9" Tan Floor Tile	1st Floor, Southern Warehouse	
07A-RM-0113	Brown Mastic Associated with Sample 08	1st Floor, Southern Warehouse	
07B-RM-0113	Brown Mastic Associated with Sample 08	1st Floor, Southern Warehouse	
08A-RM-0113	9" by 9" Brown Floor Tile	1st Floor, Southern Warehouse	
08B-RM-0113	9" by 9" Brown Floor Tile	1st Floor, Southern Warehouse	
09A-RM-0113	Black Mastic Associated with Sample 08	1st Floor, Southern Warehouse	
09B-RM-0113	Black Mastic Associated with Sample 08	1st Floor, Southern Warehouse	
10A-RM-0113	White Wall Tiles	1st Floor, Southern Warehouse	
10B-RM-0113	White Wall Tiles	1st Floor, Southern Warehouse	
11A-RM-0113	12" by 12" Tan Floor Tile	1st Floor, Southern Warehouse, Office Areas	.77.27
11B-RM-0113	12" by 12" Tan Floor Tile	1st Floor, Southern Warehouse, Office Areas	QU(
12A-RM-0113	Black Mastic Associated with Sample	1st Floor, Southern Warehouse, Office Areas	AN 1 0 2020
12B-RM-0113	Black Mastic Associated with Sample	1st Floor, Southern Warehouse, Office Areas	1050.1

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13A-RM-0113	White Floor Leveling Compound on Hardwood	1st Floor, Southern Warehouse, Office Areas	
13B-RM-0113	White Floor Leveling Compound on Hardwood	1st Floor, Southern Warehouse, Office Areas	
14A-RM-0113	4" Brown Vinyl Baseboard	1st Floor, Southern Warehouse, Office Areas	
14B-RM-0113	4" Brown Vinyl Baseboard	1st Floor, Southern Warehouse, Office Areas	
15A-RM-0113	Yellow Adhesive Associated with Sample 14	1st Floor, Southern Warehouse, Office Areas	
15B-RM-0113	Yellow Adhesive Associated with Sample 14	1st Floor, Southern Warehouse, Office Areas	
16A-RM-0113	White Joint Compound	1st Floor, Southern Warehouse, Office Areas	
16B-RM-0113	White Joint Compound	1st Floor, Southern Warehouse, Office Areas	
17A-RM-0113	Gray Gypsum Wallboard	1st Floor, Southern Warehouse, Office Areas	
17B-RM-0113	Gray Gypsum Wallboard	1st Floor, Southern Warehouse, Office Areas	
18A-RM-0113	Brown Masonite Wall Panel Adhesive	1st Floor, Southern Warehouse, Office Areas, Bathroom	
18B-RM-0113	Brown Masonite Wall Panel Adhesive	1st Floor, Southern Warehouse, Office Areas, Bathroom	
19A-RM-0113	4" Black Vinyl Baseboard	1st Floor, Southern Warehouse, Office Areas	
19B-RM-0113	4" Black Vinyl Baseboard	1st Floor, Southern Warehouse, Office Areas	
20A-RM-0113	Tan Adhesive Associated with Sample	1st Floor, Southern Warehouse, Office Areas	
20B-RM-0113	Tan Adhesive Associated with Sample 19	1st Floor, Southern Warehouse, Office Areas	
21A-RM-0113	6" Black Vinyl Baseboard	1st Floor, Southern Warehouse, Office Areas	
21B-RM-0113	6" Black Vinyl Baseboard	1st Floor, Southern Warehouse, Office Areas	
22A-RM-0113	Tan Adhesive Associated with Sample 21	1st Floor, Southern Warehouse, Office Areas	
22B-RM-0113	Tan Adhesive Associated with Sample 21	1st Floor, Southern Warehouse, Office Areas	
23A-RM-0113	Tan Linoleum Flooring	1st Floor, Southern Warehouse, Office Areas, Common Area	2 nd Layer
23B-RM-0113	Tan Linoleum Flooring	1 st Floor, Southern Warehouse, Office Areas, Common Area	
24A-RM-0113	Brown Floor Tile	1st Floor, Southern Warehouse, Office Areas, Common Area	3rd Layer
24B-RM-0113	Brown Floor Tile	1st Floor, Southern Warehouse, Office Areas, Common Area	
25A-RM-0113	Black Mastic Associated with Sample 24	1st Floor, Southern Warehouse, Office Areas, Common Area	
25B-RM-0113	Black Mastic Associated with Sample 24	1st Floor, Southern Warehouse, Office Areas, Common Area	Line S.
26A-RM-0113	Brown Square Patterned Linoleum	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room	
26B-RM-0113	Brown Square Patterned Linoleum		AN 1 8 2020

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27A-RM-0113	Brown Adhesive Associated with Sample 26	1 st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room	
27B-RM-0113	Brown Adhesive Associated with Sample 26	1 st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room	
28A-RM-0113	Yellow Adhesive Associated with Sample 23	1st Floor, Southern Warehouse, Office Areas, Common Area	
28B-RM-0113	Yellow Adhesive Associated with Sample 23	1st Floor, Southern Warehouse, Office Areas, Common Area	
29A-RM-0113	Rectangle White Ceiling Panel	1st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room	
29B-RM-0113	Rectangle White Ceiling Panel	1 st Floor, Southern Warehouse, Office Areas, Common Area, A/B-side Room	
30A-RM-0113	12" by 12" Dotted Ceiling Panel	1st Floor, Southern Warehouse, Office Areas	
30B-RM-0113	12" by 12" Dotted Ceiling Panel	1st Floor, Southern Warehouse, Office Areas	
31A-RM-0113	Green Floor Tile	1st Floor, Southern Warehouse, Office Areas, A-side Room	Under Plywood Flooring
31B-RM-0113	Green Floor Tile	1 st Floor, Southern Warehouse, Office Areas, A-side Room	
32A-RM-0113	Black Mastic Associated with Sample 31	1st Floor, Southern Warehouse, Office Areas, A-side Room	
32B-RM-0113	Black Mastic Associated with Sample 31	1st Floor, Southern Warehouse, Office Areas, A-side Room	
33A-RM-0113	Tan Wall Panel Adhesive Associated with Wood Panels	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Room	
33B-RM-0113	Tan Wall Panel Adhesive Associated with Wood Panels	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Room	
34A-RM-0113	Black Flooring Strip	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Closet	
34B-RM-0113	Black Flooring Strip	1st Floor, Southern Warehouse, Office Areas, A-side Room, D-side Closet	
35A-RM-0113	White Pipe Insulation	Basement, Storage Closet	
35B-RM-0113	White Pipe Insulation	Basement, Storage Closet	
35C-RM-0113	White Pipe Insulation	Basement, Storage Closet	
36A-RM-0113	Tan Window Caulking	Exterior, Basement Windows	
36B-RM-0113	Tan Window Caulking	Exterior, Basement Windows	
37A-RM-0113	Brown Floor Paper	2 nd Floor, Southern Warehouse	
37B-RM-0113	Brown Floor Paper	2 nd Floor, Southern Warehouse	
38A-RM-0113	White Interior Window Glazing	2 nd Floor, Southern Warehouse	
38B-RM-0113	White Interior Window Glazing	2 nd Floor, Southern Warehouse	
39A-RM-0113	Black Built-up Roofing- Tar	Lower Roof, Above Main Entrance	
39B-RM-0113	Black Built-up Roofing- Tar	Lower Roof, Above Main Entrance	<u> </u>
40A-RM-0113	Black Built-up Roofing- Felt	Lower Roof, Above Main Entrance	18 2020
40B-RM-0113	Black Built-up Roofing- Felt	Lower Roof, Above Main Entrance	, Jr.

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41A-RM-0113	Black Built-up Roofing- Tar	Southeast Roof	
41B-RM-0113	Black Built-up Roofing- Tar	Southeast Roof	
42A-RM-0113	Black Built-up Roofing- Felt	Southeast Roof	
42B-RM-0113	Black Built-up Roofing- Felt	Southeast Roof	
43A-RM-0113	Black Built-up Roofing- Tar	Collapsed Roof Section	
43B-RM-0113	Black Built-up Roofing- Tar	Collapsed Roof Section	
44A-RM-0113	Black Built-up Roofing- Felt	Collapsed Roof Section	
44B-RM-0113	Black Built-up Roofing- Felt	Collapsed Roof Section	
45A-RM-0113	Black Floor Paper	2 nd Floor, Collapsed Roof Section	
45B-RM-0113	Black Floor Paper	2 nd Floor, Collapsed Roof Section	
46A-RM-0113	Black Roofing Debris	Collapsed Roof Section	
46B-RM-0113	Black Roofing Debris	Collapsed Roof Section	
47A-RM-0113	Reinforced Concrete Panel	1st Floor, Collapsed Roof Section, Debris Pile	
47B-RM-0113	Reinforced Concrete Panel	1st Floor, Collapsed Roof Section, Debris Pile	
48A-RM-0113	Black Roofing Debris	1st Floor, Northern Warehouse, Debris Pile	
48B-RM-0113	Black Roofing Debris	1st Floor, Northern Warehouse, Debris Pile	
49A-RM-0113	12" by 12" Brown Floor Tile	1st Floor, Northern Warehouse	
49B-RM-0113	12" by 12" Brown Floor Tile	1st Floor, Northern Warehouse	
50A-RM-0113	Yellow Mastic Associated with Sample 49	1st Floor, Northern Warehouse	
50B-RM-0113	Yellow Mastic Associated with Sample	1st Floor, Northern Warehouse	
51A-RM-0113	4" Brown Vinyl Baseboard	1st Floor, Northern Warehouse	
51B-RM-0113	4" Brown Vinyl Baseboard	1st Floor, Northern Warehouse	
52A-RM-0113	Yellow Adhesive Associated with Sample 51	1st Floor, Northern Warehouse	
52B-RM-0113	Yellow Adhesive Associated with Sample 51	1st Floor, Northern Warehouse	
53A-RM-0113	Tan Wall Panel Adhesive	1 st Floor, Northern Warehouse, Office Area, Hallway	
53B-RM-0113	Tan Wall Panel Adhesive	1st Floor, Northern Warehouse, Office Area,	
54A-RM-0113	White Joint Compound	Hallway 1st Floor, Northern Warehouse, Office Area,	
54B-RM-0113	White Joint Compound	Hallway 1st Floor, Northern Warehouse, Office Area, Hallway	2020
54BC.RM-0113	White Joint Compound	1st Floor, Northern Warehouse, Office Area,	JAN + 8 2020

EMSL Customer No. ENVI54

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Phone (617) 282-4675 Fax (617) 282-8253

55A-RM-0113	Gray Gypsum Board	1st Floor, Northern Warehouse, Office Area, Hallway	
55B-RM-0113	Gray Gypsum Board	1st Floor, Northern Warehouse, Office Area, Hallway	
56A-RM-0113	Black Siding Paper	Exterior, A-side	
56B-RM-0113	Black Siding Paper	Exterior, A-side	
57A-RM-0113	Gray Parging Cement	Exterior, Debris Pile, A-side	
57B-RM-0113	Gray Parging Cement	Exterior, Debris Pile, A-side	
58A-RM-0113	White Skim Coat Plaster	Exterior, Debris Pile, A-side	
58B-RM-0113	White Skim Coat Plaster	Exterior, Debris Pile, A-side	
58C-RM-0113	White Skim Coat Plaster	Exterior, Debris Pile, A-side	
59A-RM-0113	Gray Rough Coat Plaster	Exterior, Debris Pile, A-side	
59B-RM-0113	Gray Rough Coat Plaster	Exterior, Debris Pile, A-side	
59C-RM-0113	Gray Rough Coat Plaster	Exterior, Debris Pile, A-side	
60A-RM-0113	Gray Ceramic Floor Tile Grout	Exterior, Debris Pile, A-side	
60B-RM-0113	Gray Ceramic Floor Tile Grout	Exterior, Debris Pile, A-side	
61A-RM-0113	Black Roofing Debris	Exterior, Debris Pile, A-side	
61B-RM-0113	Black Roofing Debris	Exterior, Debris Pile, A-side	
61C-RM-0113	Black Roofing Debris	Exterior, Debris Pile, A-side	
61D-RM-0113	Black Roofing Debris	Exterior, Debris Pile, A-side	
62A-RM-0113	Yellow Adhesive Associated with Window Sill Paper	1st Floor, Southern Warehouse, Office Areas, A-side Windows	
62B-RM-0113	Yellow Adhesive Associated with Window Sill Paper	1st Floor, Southern Warehouse, Office Areas, A-side Windows	
★ 63A-RM-0113	White Interior Window Glazing	1st Floor, Northern Warehouse	
63B-RM-0113	White Interior Window Glazing	1st Floor, Northern Warehouse	
64A-RM-0113	Gray Ceramic Floor Tile Thin Set	Exterior, Debris Pile, B-side	
64B-RM-0113	Gray Ceramic Floor Tile Thin Set	Exterior, Debris Pile, B-side	
65A-RM-0113	Black Roofing Debris	Exterior, Debris Pile, B-side	
65B-RM-0113	Black Roofing Debris	Exterior, Debris Pile, B-side	3.5
66A-RM-0113	Yellow Wall Panel Adhesive	1st Floor, Southern Warehouse, Office Areas	
66B-RM-0113	Yellow Wall Panel Adhesive	1st Floor, Southern Warehouse, Office Areas	AN - 8 2020

Analysis Method: PLM TEM Other

Turnaround Time: 1 week

EMSL Customer No. ENVI54

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Please call Fuss & O'Neill at (617) 282	-4675 if analyses will not be con	mpleted for requested turnaround time liste	ed above.
Email Results to: rmal	llett @fando.co	om Do Not Mail Hard Copy Report	FAX Results to: 888-838-1160.
a	If NOB group samples are ALI	omogeneous set of samples unless otherwise negative by PLM, analyze the sample denoted samples by TEM in noted order.	
Samples Collected by: Robert Mallet Samples Sent by: Mallet		Date: 152 Time: MOINING	e: <u>1/13/2021</u>
Shipped To: EMSL Method of Shipment: Fed Ex	☐ Other Lab Drop Off	Other	





Appendix D

XRF Lead-Based Paint Screening Field Data Sheets

XRF Lead-Based Paint Screening Field Data Sheet

Page	1	of	2

Inspector: Robert Mallett	XRF Model:	RMD - LPA-1	Serial:	1395
•	_		-	

Project Name: 719 River Street Date: 1/14/2021

Building Name/Number: _____ Project Number: 20181545.B10

Site Address: 719 River Street, Woonsocket, RI

Project Manager: Patrick Dowling

XRF Calibration Check - RMD (0.7 to 1.3 mg/cm² inclusive)

	First Reading	Second Reading	Third Reading	Average	
Start Check	1.0	1.0	1.0	1.0	
Finish Check	1.0	1.0	1.0	1.0	

Room	Side	Surface/Component	Color	Substrate*	XRF Reading	Positive
Exterior	A	Wall	White	CMU	0.4	
Loading Dock	А	Wall	White	CMU	0.0	
Loading Dock	А	Wall	White	CMU	0.0	
First Floor	D	Support Column	White	W	0.5	
First Floor	D	Upper Support Column	Green	W	1.0	POS
First Floor	D	Lower Support Column	White	W	1.0	POS
First Floor	D	Upper Wall	White	W	0.0	
First Floor	D	Lower Wall	Gray	W	0.0	
First Floor, Office Area	В	Door Frame	Black	W	0.1	
First Floor, Office Area	В	Window Frame	White	W	0.0	
First Floor, Office Area	В	Window Sill	White	W	1.0	POS
First Floor	D	Lower Support Column	Red	W	0.1	
First Floor	С	Upper Wall	White	В	-0.1	
First Floor	С	Lower Wall	Grey	В	0.0	
Second Floor	D	Column	White	W	0.0	
Second Floor	D	Window Components	White	W	>9.9	POS
Exterior, Second Floor	D	Wall	Yellow	W	0.0	
Second Floor		Lower Support Column	Red	W	1.0	POS
Second Floor		Upper Support Column	Black	W	1.0	POS
First Floor, Warehouse Storage Area	В	Lower Support Column	Red	W	2.0	POS
First Floor, Warehouse Storage Area	В	Upper Support Column	White	W	2.5	POS
First Floor, Collapsed Ceiling Section		Support Column	Yellow	M	1.5	POS
First Floor, Northern Warehouse		Upper Support Column	White	M	0.0	

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(617) 282-4675

First Floor, Northern Warehouse		Lower Support Column	Red	M	0.0	
First Floor, Northern Warehouse		Upper Support Column	White	M	0.1	
First Floor, Northern Warehouse		Lower Support Column	Red	M	0.1	
First Floor, Northern Warehouse	С	Upper Wall	White	W	0.1	

^{*} Substrate Type: M = Metal, W = Wood, P = Plaster, D = Drywall, C = Concrete, B = Brick, CMU = Concrete Masonry Unit, A = Aluminum, CT = Ceramic Tile N/A = Not Accessible, N/C = Not Coated, COV = Covered, VR = Vinyl Replacement, POS = Positive



Appendix C

Soil Boring Logs and Monitoring Well Completion

V

LOG1.GDT - 9/28/21 09:34 - F./P2018/145/B10/S1TES/719 RIVER STREET - DORADO/DELIVERABLES/SIR/APPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO SOIL BORING/MONITORING WELL MW-2 Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 6/28/21 **PROJECT NUMBER** 20181545.B10 PROJECT NAME 719 River Street **DATE COMPLETED** 6/28/21 CASING TYPE/DIAMETER PVC / 2" LOCATION Woonsocket, RI DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL Slotted PVC / 0.010" / 5-15' HAMMER WEIGHT/FALL --**GRAVEL PACK TYPE** Silica Sand ELEVATION (FT) N/A GROUT TYPE/QUANTITY Bentonite / 1 TOP OF CASING N/A **DEPTH TO WATER (FT)** 7.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) PID (ppm) BLOW GRAPHIC EXTENT U.S.C.S. DEPTH (ft. BGL) WATER DEPTH SAMPLE LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM 0.0 36 SAND, fine to medium; and SILT; brown; moist. No odor. GB 0628-02 **FILL** 5 0.0 54 SAND, fine to medium; and SILT; light brown; wet at 7 feet. No odor. SM 0.0 SAND, medium to coarse; and GRAVEL; some silt; light 58 brown; wet. No odor. SP

	3 F	317 Iron Provider	O'Neill, I Horse \ nce, RI ne: 401	Nay		204			SOIL BORING/MONI	TORING	WELL MW PAGE 1 O
PROJ	ECT NU	JMBER	201	1815	545.B10	0			DATE STARTED 6/28/21		
			719 R								
			nsocket								
									SCREEN TYPE/SLOT/INTERVAL		
									GRAVEL PACK TYPE Silica Sand GROUT TYPE/QUANTITY Bentor		
	OF CAS								DEPTH TO WATER (FT) 10.0		
		_	idelyn S						GROUND WATER ELEVATION		
REMA	RKS	No re	efusal er	าсоเ	untered						
PID (ppm)	BLOW	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	l	ITHOLOGIC DESCRIPTION	WATER	WELL DIAGRAI
1.0		34	GB 0628-09	9 82				SAND, fine to mediun trace glass; trace ash	m; some silt; trace gravel; trace brick; ; dry. No odor.		
					 	FILL					
0.0		26			5 	SP		SAND, fine to mediui No odor.	n; some silt; trace gravel; wet at 10 feet.		
0.0		44			 10	-		SAND, medium to co brown; wet. No odor.	arse; and GRAVEL; some silt; light	¥	
						SP					
0.0		60			 15 	-					
					 	SM		SAND, fine to mediu	n; and SILT; wet. No odor.		

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO SOIL BORING/MONITORING WELL MW-8 Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 6/29/21 **PROJECT NUMBER** 20181545.B10 PROJECT NAME 719 River Street DATE COMPLETED 6/29/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER PVC / 2" DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL Slotted PVC / 0.010" / 10-20' HAMMER WEIGHT/FALL --**GRAVEL PACK TYPE** Silica Sand ELEVATION (FT) N/A GROUT TYPE/QUANTITY Bentonite / 1 TOP OF CASING N/A DEPTH TO WATER (FT) 12.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---REMARKS No refusal encountered. RECOVERY (inches) \Box PID (ppm) BLOW GRAPHIC EXTENT U.S.C.S. DEPTH (ft. BGL) WATER DEPTH SAMPLE LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM 28 0.4 SAND, fine to mediuml some silt; little gravel; trace brick; GB brown; black staining; dry. No odor. 0629-1 FILL 5 0.0 45 SAND, fine to medium; and SILT; light brown; dry. No odor. FILL SAND, fine to medium; and SILT; black; wet at 12 feet. 32.8 57 Petroleum odor. SM V 145 SAND, medium to coarse; some silt; some gravel; black staining, wet. Petroleum odor. SE 43 SAND, medium to coarse; some silt; some gravel; black 89 staining; wet. Petroleum odor. SP

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO SOIL BORING/MONITORING WELL MW-9 Fuss & O'Neill, Inc. PAGE 1 OF 1 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 6/29/21 **PROJECT NUMBER** 20181545.B10 PROJECT NAME 719 River Street **DATE COMPLETED** 6/29/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER PVC / 2" DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL Slotted PVC / 0.010" / 10-20' HAMMER WEIGHT/FALL --**GRAVEL PACK TYPE** Silica Sand ELEVATION (FT) N/A GROUT TYPE/QUANTITY Bentonite / 1 TOP OF CASING N/A DEPTH TO WATER (FT) 11.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) \Box PID (ppm) BLOW GRAPHIC EXTENT U.S.C.S. DEPTH (ft. BGL) WATER DEPTH SAMPLE LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM 2.4 SAND, fine to medium; and SILT; some gravel; trace brick; GB light brown; dry. No odor. 0629-15 FILL SAND, fine to medium; and SILT; trace gravel; light brown; 0.0 52 dry. No odor. FILL SAND, fine to medium; and SILT; trace gravel; light brown; 54 wet at 11 feet. No odor. V FILL SAND, medium to coarse; and GRAVEL; some silt; brown; wet. No odor. SE 0.0 60 SAND, medium to coarse; and GRAVEL; some silt; brown; wet. No odor. SP SAND, fine to medium; and SILT; light brown; wet. No odor. SM

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO **SOIL BORING SB-12** Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 **PROJECT NUMBER** 20181545.B10 DATE STARTED 6/29/21 **PROJECT NAME** 719 River Street DATE COMPLETED 6/29/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER __---DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL __---HAMMER WEIGHT/FALL --GRAVEL PACK TYPE ----GROUT TYPE/QUANTITY __----ELEVATION (FT) N/A TOP OF CASING __---DEPTH TO WATER (FT) 14.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) SAMPLE ID. GRAPHIC LOG PID (ppm) BLOW EXTENT U.S.C.S. WATER DEPTH DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION 0.0 25 SAND, fine to medium; some gravel; some silt; brown; dry. No odor. GB 0629-19 **FILL** 5 0.0 55 SAND, fine to medium; and SILT; light brown; dry. No odor. FILL SAND, medium to coarse; some gravel; little silt; trace brick; trace ash; brown; dry. No odor. FILL SAND, medium to coarse; and GRAVEL; little silt; wet at 14 feet. No odor. 48 GB 0629-20m SP SAND, medium to coarse; and GRAVEL; little silt; wet. No odor. 0.0 52 SP

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LOG1.GDT - 9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIR/APPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MHS 719 RIVER ST. BORING LO SOIL BORING/MONITORING WELL MW-14 Fuss & O'Neill, Inc. PAGE 1 OF 1 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 **PROJECT NUMBER** 20181545.B10 **DATE STARTED** 6/30/21 PROJECT NAME 719 River Street DATE COMPLETED 6/30/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER PVC / 2" DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL Slotted PVC / 0.010" / 10-20' HAMMER WEIGHT/FALL --**GRAVEL PACK TYPE** Silica Sand ELEVATION (FT) N/A GROUT TYPE/QUANTITY Bentonite / 1 TOP OF CASING N/A **DEPTH TO WATER (FT)** 12.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---REMARKS No refusal encountered. RECOVERY (inches) 흳 PID (ppm) BLOW GRAPHIC U.S.C.S. DEPTH (ft. BGL) WATER DEPTH EXTENT SAMPLE LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM 0.0 SAND, fine to medium; some silt; little gravel; trace brick; GB trace asphalt; trace wood; light brown; dry. No odor. 0630-23 FILL 5 0.0 50 SAND, fine to medium; some silt; little gravel; trace brick; trace asphalt; trace wood; light brown; dry. No odor. FILL 48 SAND, fine to medium; and SILT; little gravel; brown; wet at GB 12 feet. No odor. 0630-24 SP \blacksquare SAND, medium to coarse; some silt; some gravel; light brown; wet. No odor. SP 0.0 45 SAND, medium to coarse; some silt; some gravel; light brown; wet. No odor. SP

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO **SOIL BORING/MONITORING WELL MW-15** Fuss & O'Neill, Inc. PAGE 1 OF 1 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 6/30/21 **PROJECT NUMBER** 20181545.B10 PROJECT NAME 719 River Street DATE COMPLETED 6/30/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER PVC / 2" DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL Slotted PVC / 0.010" / 10-20' HAMMER WEIGHT/FALL --**GRAVEL PACK TYPE** Silica Sand ELEVATION (FT) N/A GROUT TYPE/QUANTITY Bentonite / 1 TOP OF CASING N/A DEPTH TO WATER (FT) 12.0 GROUND WATER ELEVATION __---LOGGED BY Madelyn Sampson **REMARKS** No refusal encountered. RECOVERY (inches) \Box PID (ppm) BLOW GRAPHIC EXTENT U.S.C.S. DEPTH (ft. BGL) WATER DEPTH SAMPLE LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM 0.5 SAND, fine to medium; and SILT; little gravel; trace brick; 43 GB brown; dry. No odor. 0630-25 FILL 1.5 38 SAND, fine to medium; and SILT; little gravel; trace brick; light brown; wet at 10 feet. No odor. FILL GB 0630-26 SAND, medium to coarse; and GRAVEL; some silt; brown; 48 wet. No odor. V SP SAND, medium to coarse; and GRAVEL; some silt; brown; 0.3 24 wet. No odor. SP

SOIL BORING SB-17

WATER DEPTH

SM

WATER DEPTH

V

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO **SOIL BORING SB-21** Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 9/9/21 **PROJECT NAME** 719 River Street DATE COMPLETED 9/9/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER ----DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL __---HAMMER WEIGHT/FALL --GRAVEL PACK TYPE ----GROUT TYPE/QUANTITY __----ELEVATION (FT) N/A TOP OF CASING __---DEPTH TO WATER (FT) 13.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) SAMPLE ID. GRAPHIC LOG PID (ppm) BLOW EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION 1.7 28 SAND, fine to medium; trace silt; trace gravel; trace brick; light brown; dry. No odor. **FILL** 0.0 22 SAND, fine to medium; trace silt; trace gravel; trace brick; light brown; dry. No odor. FILL SAND, fine to medium; and SILT; light brown; dry. No odor. SM SAND, fine to medium; and SILT; light brown; wet at 13 feet. No odor. 55 SM SAND, medium to coarse; little gravel; light brown; wet. No odor. SP 0.0 60 SAND, medium to coarse; little gravel; light brown; wet. No odor. SP

SAND, fine to medium; and SILT; wet. No odor.

SM

WATER DEPTH

V

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO **SOIL BORING SB-22** Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 9/9/21 **PROJECT NAME** 719 River Street DATE COMPLETED 9/9/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER _____ DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL __---HAMMER WEIGHT/FALL --GRAVEL PACK TYPE ----GROUT TYPE/QUANTITY __----ELEVATION (FT) N/A TOP OF CASING __---DEPTH TO WATER (FT) 13.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) SAMPLE ID. GRAPHIC LOG PID (ppm) BLOW EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION 0.0 22 SAND, fine to medium; trace silt; trace gravel; trace brick; light brown; dry. No odor. **FILL** 5 0.0 33 SAND, fine to medium; and SILT; light brown; dry. No odor. SM SAND, fine to medium; and SILT; light brown; dry. No odor. 48 SM SAND, medium to coarse; trace gravel; light brown; wet at 13 feet. No odor. SP 0.0 60 SAND, medium to coarse; little gravel; light brown; wet. No odor. SP

SAND, fine to medium; and SILT; wet. No odor.

SM

WATER DEPTH

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SM

SOIL BORING SB-23

WATER DEPTH

V

LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO **SOIL BORING SB-24** Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 9/9/21 **PROJECT NAME** 719 River Street DATE COMPLETED 9/9/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER _____ DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL _ ----HAMMER WEIGHT/FALL --GRAVEL PACK TYPE ----GROUT TYPE/QUANTITY __----ELEVATION (FT) N/A TOP OF CASING __---DEPTH TO WATER (FT) 14.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) SAMPLE ID. GRAPHIC LOG PID (ppm) BLOW EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION 0.0 28 SAND, fine to medium; little gravel; trace silt; trace brick; trace wood; brown; dry. No odor. **FILL** 0.0 32 SAND, fine to medium; little gravel; trace silt; trace brick; trace wood; brown; dry. No odor. FILL 38 SAND, fine to medium; little gravel; trace silt; trace brick; trace wood; brown; dry. No odor. **FILL** SAND, medium to coarse; trace silt; light brown; wet at 14 feet. No odor. SP 15 SAND, medium to coarse; trace silt; light brown; wet. No odor. 0.0 60 SP

SM

SAND, fine to medium; and SILT; light brown; wet. No odor.

WATER DEPTH

SM

WATER DEPTH

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LOG1.GDT -9/28/21 09:34 - F/P2018/1545/B10/SITES/719 RIVER STREET - DORADO/DELIVERABLES/SIRAPPENDICES/APPENDIX C-SOIL BORING LOGS AND MONITORING WELL COMPLETION/DRAFTS/MMS 719 RIVER ST. BORING LO **SOIL BORING SB-26** Fuss & O'Neill, Inc. 317 Iron Horse Way, Suite 204 Providence, RI Telephone: 401.861.3070 DATE STARTED 9/9/21 **PROJECT NAME** 719 River Street DATE COMPLETED 9/9/21 LOCATION Woonsocket, RI CASING TYPE/DIAMETER _____ DRILLING METHOD Geologic/Geoprobe/Mc5 60" Liner SCREEN TYPE/SLOT/INTERVAL __---HAMMER WEIGHT/FALL --GRAVEL PACK TYPE ----ELEVATION (FT) N/A GROUT TYPE/QUANTITY _____ TOP OF CASING __---**DEPTH TO WATER (FT)** 9.0 LOGGED BY Madelyn Sampson GROUND WATER ELEVATION __---**REMARKS** No refusal encountered. RECOVERY (inches) SAMPLE ID. GRAPHIC LOG PID (ppm) BLOW EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION 0.0 32 SAND, fine to medium; trace silt; trace gravel; light brown; dry. No odor. **FILL** 5 0.0 52 SAND, fine to medium; and SILT; brown; dry. No odor. SM SAND, medium to coarse; trace silt; light brown; wet at 9 feet. No odor. 48 SAND, medium to coarse; trace silt; light brown; wet. No odor. SP SAND, medium to coarse; some silt; light brown; wet. No odor. SP 15 0.0 56 SAND, medium to coarse; some silt; light brown; wet. No odor. SP

SM

SAND, fine to medium; and SILT; light brown; wet. No odor.

WATER DEPTH

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SM

SOIL BORING SB-27

WATER DEPTH

 \blacksquare



Appendix D

Soil Laboratory Analytical Reports



Modified Tier II Data Validation Narrative

Project: 20181545.B10, 20 Privilege Street, Woonsocket, RI

Con-Test Analytical Laboratory Project Number:	21G0035, 21G0036, 21G1540
Date Samples Received at Laboratory:	July 1, 2021
Date of Review:	July 14, 2021

Twenty-four soil samples plus two duplicate quality control sample were collected from soil borings at the Site. The soil samples were submitted to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts. The samples were analyzed for the following analytes using the designated methods:

Soil:

- Volatile Organic Compounds (VOC) via USEPA Method 8260, including preservation by Method 5035
- Polycyclic aromatic hydrocarbons (PAH) via USEPA Method 8270
- Priority Pollutant 13 Metals via USEPA Methods 6010/7471
- Toxicity Characteristic Leaching Procedure (TCLP) metals via USEPA Method 1311
- Total Petroleum Hydrocarbons (TPH) via USEPA Method 8100/8015
- Polychlorinated biphenyls (PCBs) via USEPA Method 8082

In addition, three laboratory-supplied trip blank, including one methanol-preserved and two sodium bisulfate-preserved vials, were submitted for analysis of VOC by USEPA Method 8260. Dedicated sampling equipment was utilized, so equipment blanks and field blanks were not collected during these sampling activities.

No compounds were detected in the trip blanks at concentrations exceeding laboratory detection limits. Samples were received by the laboratory at 2.0 and 4.4 degrees Celsius. All samples were analyzed within the method-specific holding times.

No case narrative summary was included in the analytical report 21G1540 for the TCLP analysis of samples 1603210628-06, 1603210628-09, 1603210628-10 and 1603210629-14. As documented in the case narrative summary included in the analytical reports 21G0035 and 21G0036, the following non-conformances were identified during analysis of these samples:

21G0035:

- Due to a lab reporting error, the thallium results from samples 16 to 20 were revised with the correct values on July 14, 2021.
- Either the laboratory fortified blank/laboratory control sample recovery or duplicate
 recoveries were outside of control limits but the other is within limits for Beryllium,
 Chromium and Nickel. RPD between the two LFB/LCS results is within method specified
 criteria
- The matrix spike recovery was outside of control limits for Antimony, Selenium and Zinc for samples 1603210628-01 and/or 1603210629-18. Analysis was in control based on laboratory fortified blank recovery. There is a possibility of the sample matrix effects that



- lead to low bias for reported result or non-homogenous sample aliquot cannot be eliminated.
- Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for samples results that are less than five times the reporting limits (RL) for Arsenic and Beryllium in sample 1603210628-01.
- Sample contamination consisted of heavy residual hydrocarbons similar to asphalt for TPH. Chromatogram also shows the presence of PAHs. Samples 1603210628-01, 1603210628-03, 1603210628-05, 1603210628-07, 1603210629-14 and 1603210629-19.
- The surrogate recovery was not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences for 2-Fluorobiphenyl for samples 1603210628-08, 1603210628-11, 1603210628-12, 1603210629-14, and 1603210629-16.
- Chromatogram did not match any reference standard for TPH for samples 1603210629-17 and 1603210629-18.
- Chromatogram showed the presence of heavy hydrocarbons similar to motor oil for sample 1603210629-15.
- Chromatogram showed the presence of weathered #2 diesel fuel as well as heavier hydrocarbons in the motor oil range for samples1603210628-08, 1603210628-09, 1603210628-10, 1603210628-11, 1603210628-11, 1603210628-12 and 1603210629-16.
- The sample chromatographic pattern did not exhibit any fuel pattern for samples 1603210628-02, 1603210628-04 and 1603210628-06.
- The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract for Decachlorobiphenyl for sample 1603210628-01.
- The laboratory fortified blank/laboratory control sample recovery and duplicate recoveries
 were outside of control limits for Bromomethane and Methyl Acetate. Data validation was
 not affected since all results are "not detected" for associated samples and the bias was on
 the high side.
- The laboratory fortified blank/laboratory control sample recovery and duplicate recoveries were outside of control limits for Bromochloromethane and Trichlorogluoromethane. The reported values for these compounds are likely to be biased on the low side for samples 1603210628-08, 1603210628-11, 1603210628-12, 1603210629-16, 1603210629-17, 1603210629-18, 1603210629-19 and 1603210629-20.
- The laboratory fortified blank/laboratory control sample or duplicate recovery was outside of control limits, but the other is within limits for Bromochloromethane and Methyl Acetate. RPD between the two LFB/LCS results is within method specified criteria.
- The laboratory fortified blank/laboratory control sample or duplicate recovery was outside
 of control limits, but the other is within limits for Chloroethane. RPD was outside of
 control limits. Reduced precision is anticipated for any reported results for this compound.
- Laboratory fortified blank duplicate RPD was outside of control limits for Chloroethane for samples 1603210628-08, 1603210628-11, and 1603210628-12.
- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for 1,1-Dichloroethylene, 1,2,3-Trichlorobenzene, Bromochlorormethane, Carbon Disulfide, trans-1,4- Dichloro-2-butene and Trichlorofluoromethane for most samples.
- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for 1,1-Dichloroethylene, 1,2-Dichloroethane, Acetone, Bromochloromethane, Bromoform, Bromomethane, Methyl Acetate and Methylene Chloride. Data validation was not affected since sample results were "not detected" for these compounds.

- Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated for Bromoethane for most samples.
- The surrogate recovery was not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences for 2-Fluorobiphenyl, Nitrobenzene and p-Terphenyl for sample 1603210628-01.

21G0036:

- The laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits but the other is within limits for Beryllium, Chromium and Nickel.
- Sample contamination consists of heavy residual hydrocarbons similar to asphalt and chromatogram shows the presence of PAHs for samples 1603210629-21, 1603210629-23, 1603210629-24, 1603210630-25, 1603210630-26, 1603210630-27 and 1603210630-28.
- The laboratory fortified blank/laboratory control sample recovery and duplicate recoveries
 were outside of control limits for Bromomethane and Methyl Acetate. Data validation was
 not affected since all results are "not detected" for associated samples and the bias was on
 the high side.
- The laboratory fortified blank/laboratory control sample recovery and duplicate recoveries were outside of control limits for Trichlorofluoromethane for samples 1603210629-21, 1603210629-22, 1603210629-23, 1603210630-24, 1603210630-25, 1603210630-26, 1603210630-27, 1603210630-28, and 1603210630-29. Data validation was not affected since all results are "not detected" for associated samples and the bias was on the low side.
- The laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits but the other is within limits for Bromochloromethane.
- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for 1,1-Dichloroethylene, 1,2,3-Trichlorobenzene, Carbon Disulfide, and Trichlorofluoromethane for samples 1603210629-21, 1603210629-22, 1603210629-23, 1603210630-24, 1603210630-25, 1603210630-26, 1603210630-27, 1603210630-28, and 1603210630-29.
- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for Bromochloromethane, Bromomethane and Methyl Acetate.

Based on the full data set for soil at the Site, the compounds of concern warranting response actions for soil were antimony, selenium, zinc, TPH, and PAH. No VOC of concern were identified in site soil. Therefore, the non-conformances during VOC analysis were not anticipated to affect the usability of the data.

The concentration of antimony and selenium in soil samples affected by the non-conformance were all below the laboratory detection limits. The concentration of zinc in soil samples affected by the non-conformance were above laboratory detection limits but significantly below applicable regulatory standards. The non-conformity reported by Con-Test was not expected to affect the usability of the data.



The concentration of TPH in soil samples 1603210629-17 and 1603210629-18 affected by the non-conformance were above laboratory detection limits but significantly below applicate regulatory standards. The non-conformity reported by Con-Test was not expected to affect the usability of the data.

Analytical results for the soil samples were compared to the Method 1 Residential Exposure Criteria, Industrial/Commercial Direct Exposure Criteria, and GB Leachability Criteria promulgated by the Rhode Island Department of Environmental Management.

Laboratory reporting limits of several PAH in soil samples 1603210628-08, 1603210628-11, and 1603210628-12 were above the Method 1 Residential Exposure Criteria and Industrial/Commercial Direct Exposure Criteria. The usability of the data was not impacted because TPH was detected in the soil samples at concentrations above the GB Leachability Criteria. Laboratory reporting limits for the remaining soil samples were low enough to allow direct comparison to the applicable criteria.



July 14, 2021

Madelyn Sampson Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908

Project Location: 719 River St, Woonsocket, RI

Client Job Number:

Project Number: 20181545.B10

Laboratory Work Order Number: 21G0035

Jessica Hoffman

Enclosed are results of analyses for samples received by the laboratory on July 1, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman Project Manager

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Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/14/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0035

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210628-01	21G0035-01	Soil	SB-1	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-02	21G0035-02	Soil	MW-2	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-03	21G0035-03	Soil	SB-3	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-04	21G0035-04	Soil	SB-3	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-05	21G0035-05	Soil	SB-4	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	



Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/14/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0035

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210628-06	21G0035-06	Soil	SB-4	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-07	21G0035-07	Soil	SB-5	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-08	21G0035-08	Soil	SB-5	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-09	21G0035-09	Soil	MW-6	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-10	21G0035-10	Soil	SB-7	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	



Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/14/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0035

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210628-11	21G0035-11	Soil	SB-7	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-12	21G0035-12	Soil	SB-7	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210628-13	21G0035-13	Trip Blank Soil	Trip Blank	SW-846 8260C-D	
1603210629-1	21G0035-14	Soil	ME-8	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210629-1	21G0035-15	Soil	ME-9	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210629-1	21G0035-16	Soil	SB-10	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	



Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/14/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0035

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210629-1	21G0035-17	Soil	SB-11	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210629-1	21G0035-18	Soil	SB-11	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210629-1	21G0035-19	Soil	SB-12	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210629-1	21G0035-20	Soil	SB-12	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 07-14-21: Due to a lab reporting error, the thallium results for samples 21G0035-16-20 have been revised with the correct values. For method 8270E, only PAHs were requested and reported.



SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Beryllium

B285206-BS1

Chromium

B285206-BS1

Nickel

B285206-BS1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated. Analyte & Samples(s) Qualified:

Antimony

21G0035-01[1603210628-01], 21G0035-18[1603210629-1], B285206-MS1, B285207-MS1

Selenium

21G0035-18[1603210629-1], B285206-MS1

Zinc

21G0035-01[1603210628-01], B285207-MS1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting

limit (RL).
Analyte & Samples(s) Qualified:

Arsenic

21G0035-01[1603210628-01], B285207-DUP1

Beryllium

21G0035-01[1603210628-01], B285207-DUP1

SW-846 8015C

Qualifications:

O-25

Sample contamination consists of heavy residual hydrocarbons similar to asphalt.

Analyte & Samples(s) Qualified:

TPH (C9-C36)

21G0035-20[1603210629-1]

O-26

Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.

Analyte & Samples(s) Qualified:

TPH (C9-C36)

21G0035-01[1603210628-01], 21G0035-03[1603210628-03], 21G0035-05[1603210628-05], 21G0035-07[1603210628-07], 21G0035-14[1603210629-1], 21G0035-07[1603210628-07], 21G0035-07[16032106221G0035-19[1603210629-1]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. Analyte & Samples(s) Qualified:

2-Fluorobiphenyl

21G0035-08[1603210628-08], 21G0035-11[1603210628-11], 21G0035-12[1603210628-12], 21G0035-14[1603210629-1], 21G0035-16[1603210629-1], 21G0035-16[16

7-01

Chromatogram does not match any reference standard.

Analyte & Samples(s) Qualified:

TPH (C9-C36)

21G0035-17[1603210629-1], 21G0035-18[1603210629-1]



Z-01a

Chromatogram shows the presence heavy hydrocarbons similar to motor oil.

Analyte & Samples(s) Qualified:

TPH (C9-C36)

21G0035-15[1603210629-1]

Z-01b

Chromatogram shows the presence of weathered #2 diesel fuel as well as heavier hydrocarbons in the motor oil range.

Analyte & Samples(s) Qualified:

TPH (C9-C36)

21G0035-08[1603210628-08], 21G0035-09[1603210628-09], 21G0035-10[1603210628-10], 21G0035-11[1603210628-11], 21G0035-12[1603210628-12], 21G0035-12[16032106

21G0035-16[1603210629-1]

Z-01c

The sample chromatographic pattern does not exhibit any fuel pattern

Analyte & Samples(s) Qualified:

TPH (C9-C36)

21G0035-02[1603210628-02], 21G0035-04[1603210628-04], 21G0035-06[1603210628-06]

SW-846 8082A

Qualifications:

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the

sample extract.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]

21G0035-01[1603210628-01]

SW-846 8260C-D

Oualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane

B285252-BS1, B285252-BSD1

Methyl Acetate

B285222-BS1, B285222-BSD1, B285252-BS1, B285252-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromochloromethane

21G0035-08[1603210628-08], 21G0035-11[1603210628-11], 21G0035-12[1603210628-12], B285216-BLK1, B285216-BS1, B285216-BSD1, B285

Trichlorofluoromethane (Freon 11)

21G0035-16[1603210629-1], 21G0035-17[1603210629-1], 21G0035-18[1603210629-1], 21G0035-19[1603210629-1], 21G0035-20[1603210629-1], 21G0035-10[1603210629-1], 21G0035-10[16032B285252-BS1, B285252-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Bromochloromethane

B285252-BS1

Methyl Acetate

B285216-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound. Analyte & Samples(s) Qualified:

Chloroethane

B285216-BSD1



R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this

compound. Analyte & Samples(s) Qualified:

Chloroethane

21G0035-08[1603210628-08], 21G0035-11[1603210628-11], 21G0035-12[1603210628-12], B285216-BLK1, B285216-BS1, B285216-BSD1, B285

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene

21G0035-16[1603210629-1], 21G0035-17[1603210629-1], 21G0035-18[1603210629-1], 21G0035-19[1603210629-1], 21G0035-20[1603210629-1], B285252-BLK1, B285252-BSD1, S061205-CCV1

1.2.3-Trichlorobenzene

21G0035-16[1603210629-1], 21G0035-17[1603210629-1], 21G0035-18[1603210629-1], 21G0035-19[1603210629-1], 21G0035-20[1603210629-1], 21G0035-20[16032

Bromochloromethane

21G0035-08[1603210628-08], 21G0035-11[1603210628-11], 21G0035-12[1603210628-12], B285216-BLK1, B285216-BS1, B285216-BSD1, S061207-CCV1, B285216-BSD1, B285

Carbon Disulfide

21G0035-16[1603210629-1], 21G0035-17[1603210629-1], 21G0035-18[1603210629-1], 21G0035-19[1603210629-1], 21G0035-20[1603210629-1], B285252-BLK1, B285252-BSD1, S061205-CCV1

trans-1,4-Dichloro-2-butene

 $21G0035-01[1603210628-01], 21G0035-02[1603210628-02], 21G0035-03[1603210628-03], 21G0035-04[1603210628-04], 21G0035-05[1603210628-05], \\ 21G0035-06[1603210628-06], 21G0035-07[1603210628-07], 21G0035-09[1603210628-09], 21G0035-10[1603210628-10], 21G0035-13[1603210628-13], \\ 21G0035-14[1603210629-1], 21G0035-15[1603210629-1], B285222-BLK1, B285222-BS1, B285222-BSD1, S 061211-CCV1$

Trichlorofluoromethane (Freon 11)

21G0035-16[1603210629-1], 21G0035-17[1603210629-1], 21G0035-18[1603210629-1], 21G0035-19[1603210629-1], 21G0035-20[1603210629-1], 21G0035-20[16032

B285252-BS1, B285252-BSD1, S061205-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1.1-Dichloroethylene

B285222-BS1, B285222-BSD1, S061211-CCV1

1,2-Dichloroethane

B285222-BS1, B285222-BSD1, S061211-CCV1

Acetone

B285222-BS1, B285222-BSD1, S061211-CCV1

Bromochloromethane

B285252-BS1, B285252-BSD1, S061205-CCV1

Bromoform

B285216-BS1, B285216-BSD1, S061207-CCV1

Bromomethane

B285222-BS1, B285222-BSD1, B285252-BS1, B285252-BSD1, S061205-CCV1, S061211-CCV1

Methyl Acetate

B285216-BS1, B285216-BSD1, B285222-BS1, B285222-BSD1, B285252-BS1, B285252-BSD1, S061205-CCV1, S061207-CCV1, S061211-CCV1

Methylene Chloride

B285222-BS1, B285222-BSD1, S061211-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

 $21G0035-01[1603210628-01], 21G0035-02[1603210628-02], 21G0035-03[1603210628-03], 21G0035-04[1603210628-04], 21G0035-05[1603210628-05], \\ 21G0035-06[1603210628-06], 21G0035-07[1603210628-07], 21G0035-08[1603210628-08], 21G0035-09[1603210628-09], 21G0035-10[1603210628-10], \\ 21G0035-11[1603210628-11], 21G0035-12[1603210628-12], 21G0035-13[1603210628-13], 21G0035-14[1603210629-1], 21G0035-15[1603210629-1], B285216-BLK1, B285216-BSD1, B285218-BSD1, B285218-BSD1,$

SW-846 8270D-E

Qualifications:



RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

21G0035-08[1603210628-08], 21G0035-11[1603210628-11], 21G0035-14[1603210629-1]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl

21G0035-01RE2[1603210628-01]

Nitrobenzene-d5

21G0035-01RE2[1603210628-01]

p-Terphenyl-d14

21G0035-01RE2[1603210628-01]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Acrylonitrile	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Bromomethane	ND	0.0089	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
tert-Butyl Alcohol (TBA)	ND	0.089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Chlorodibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Chloromethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1.4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
trans-1,4-Dichloro-2-butene	ND ND	0.0018	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0030	mg/Kg dry	1	V-03	SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2-Dichloroethane	ND ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1-Dichloroethylene									
•	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,3-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
cis-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
trans-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Diethyl Ether	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

		Vo	latile Organic Com	pounds by G	C/NIS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,4-Dioxane	ND	0.089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Methyl Acetate	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Methyl Cyclohexane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Tetrahydrofuran	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,3,5-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Vinyl Chloride	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:14	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		113	70-130					7/2/21 15:14	

96.3

94.6

70-130

70-130

7/2/21 15:14

7/2/21 15:14



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

		Semi	volatile Organic Co	mpounds by	GC/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.9	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:18	BGL
Acenaphthylene	6.3	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Anthracene	12	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Benzo(a)anthracene	18	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Benzo(a)pyrene	16	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Benzo(b)fluoranthene	18	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Benzo(g,h,i)perylene	9.0	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Benzo(k)fluoranthene	7.6	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Chrysene	15	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Dibenz(a,h)anthracene	2.3	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:18	BGL
Fluoranthene	41	8.8	mg/Kg dry	50		SW-846 8270D-E	7/2/21	7/9/21 1:55	BGL
Fluorene	8.9	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Indeno(1,2,3-cd)pyrene	9.7	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
2-Methylnaphthalene	3.8	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:18	BGL
Naphthalene	7.8	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Phenanthrene	50	8.8	mg/Kg dry	50		SW-846 8270D-E	7/2/21	7/9/21 1:55	BGL
Pyrene	40	1.8	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 1:27	BGL
Surrogates		% Recovery	Recovery Limits	;	Flag/Qual				-
Nitrobenzene-d5		52.2	30-130		-			7/7/21 20:18	
Nitrobenzene-d5		56.9	30-130					7/9/21 1:27	
Nitrobenzene-d5		*	30-130		S-01			7/9/21 1:55	
2-Fluorobiphenyl		50.1	30-130					7/7/21 20:18	
2-Fluorobiphenyl		55.7	30-130					7/9/21 1:27	
2-Fluorobiphenyl		*	30-130		S-01			7/9/21 1:55	
p-Terphenyl-d14		71.6	30-130					7/7/21 20:18	
p-Terphenyl-d14		80.8	30-130					7/9/21 1:27	
p-Terphenyl-d14		*	30-130		S-01			7/9/21 1:55	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		- 0-)							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 17:31	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		77.9	30-150					7/10/21 17:31	
Decachlorobiphenyl [2]		159 *	30-150		S-02			7/10/21 17:31	
Tetrachloro-m-xylene [1]		78.3	30-150					7/10/21 17:31	
Tetrachloro-m-xylene [2]		69.3	30-150					7/10/21 17:31	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	1100	86	mg/Kg dry	10	O-26	SW-846 8015C	7/2/21	7/7/21 19:04	SFM
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
2-Fluorobiphenyl		40.5	40-140					7/7/21 19:04	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

Metals Analyses (Total)

					()					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antii	nony	ND	1.7	mg/Kg dry	1	MS-07	SW-846 6010D	7/2/21	7/6/21 17:17	МЈН
Arse	nic	3.4	3.4	mg/Kg dry	1	R-04	SW-846 6010D	7/2/21	7/7/21 20:05	AJL
Bery	llium	0.27	0.17	mg/Kg dry	1	R-04	SW-846 6010D	7/2/21	7/6/21 17:17	MJH
Cadn	nium	ND	0.34	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:17	MJH
Chro	mium	14	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/7/21 20:05	AJL
Copp	er	22	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:17	MJH
Lead		67	0.51	mg/Kg dry	1		SW-846 6010D	7/2/21	7/7/21 20:05	AJL
Merc	ury	0.24	0.031	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:36	CJV
Nick	el	5.3	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:17	MJH
Seler	nium	ND	3.4	mg/Kg dry	1		SW-846 6010D	7/2/21	7/7/21 20:05	AJL
Silve	r	ND	0.34	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:17	MJH
Thall	ium	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:17	MJH
Zinc		52	0.67	mg/Kg dry	1	MS-07	SW-846 6010D	7/2/21	7/7/21 20:05	AJL



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-1 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-01 Sampled: 6/28/2021 07:42

Sample ID: 21G0035-01
Sample Matrix: Soil

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		95.8		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acetone	ND	0.079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Acrylonitrile	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Bromomethane	ND	0.0079	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
tert-Butyl Alcohol (TBA)	ND	0.079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Chlorodibromomethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Chloromethane	ND	0.0079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,3-Dichloropropane	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
cis-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
trans-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
				-					-/



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

				p 0 = = = 0 = 0			Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,4-Dioxane	ND	0.079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Methyl Acetate	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Methyl Cyclohexane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Tetrahydrofuran	ND	0.0079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,3,5-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Vinyl Chloride	ND	0.0079	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:39	MFF
Surrogates		% Recovery	Recovery Limits	i	Flag/Qual				
1,2-Dichloroethane-d4		118	70-130					7/2/21 15:39	
Toluene-d8		98.0	70-130					7/2/21 15:39	

99.5

70-130

7/2/21 15:39



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 20:45	BGL
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
Nitrobenzene-d5		54.8	30-130					7/7/21 20:45	
2-Fluorobiphenyl		54.5	30-130					7/7/21 20:45	
p-Terphenyl-d14		76.1	30-130					7/7/21 20:45	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		- 0-)							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 18:58	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		78.1	30-150					7/10/21 18:58	
Decachlorobiphenyl [2]		68.2	30-150					7/10/21 18:58	
Tetrachloro-m-xylene [1]		81.1	30-150					7/10/21 18:58	
Tetrachloro-m-xylene [2]		75.6	30-150					7/10/21 18:58	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.8	mg/Kg dry	1	Z-01c	SW-846 8015C	7/2/21	7/7/21 14:43	SFM
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		42.1	40-140					7/7/21 14:43	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

Metals Analyses (Total)

				Wictais Hilli	, 505 (10001)					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
					1	g				
Antimony		ND	1.7	mg/Kg dry	I		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Arsenic		ND	3.4	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Beryllium		ND	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Cadmium		ND	0.34	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Chromium		4.3	0.68	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Copper		2.6	0.68	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Lead		1.5	0.51	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Mercury		ND	0.030	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:34	CJV
Nickel		2.8	0.68	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Selenium		ND	3.4	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Silver		ND	0.34	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Thallium		ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH
Zinc		9.8	0.68	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:23	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-2 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-02 Sampled: 6/28/2021 08:21

Sample ID: 21G0035-02
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		94.0		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Acrylonitrile	ND	0.0067	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Carbon Disulfide	ND	0.0067	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
			0 0 -7						



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

1,2-Dichloroethane-d4

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Methyl Acetate	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Methyl Cyclohexane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:03	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				

113

98.1

95.1

70-130

70-130

70-130

7/2/21 16:03

7/2/21 16:03

7/2/21 16:03



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Benzo(a)anthracene	0.29	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Benzo(a)pyrene	0.29	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Benzo(b)fluoranthene	0.35	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Chrysene	0.27	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Fluoranthene	0.57	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Phenanthrene	0.37	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Pyrene	0.56	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:12	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		53.3	30-130					7/7/21 21:12	
2-Fluorobiphenyl		53.0	30-130					7/7/21 21:12	
p-Terphenyl-d14		72.3	30-130					7/7/21 21:12	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:16	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		66.3	30-150					7/10/21 19:16	
Decachlorobiphenyl [2]		58.4	30-150					7/10/21 19:16	
Tetrachloro-m-xylene [1]		72.4	30-150					7/10/21 19:16	
Tetrachloro-m-xylene [2]		67.2	30-150					7/10/21 19:16	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	32	9.0	mg/Kg dry	1	O-26	SW-846 8015C	7/2/21	7/8/21 12:38	SFM
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		42.4	40-140					7/8/21 12:38	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

Metals Analyses (Total)

					, ()					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ā	Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	МЈН
A	Arsenic	4.6	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
I	Beryllium	0.29	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
(Cadmium	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
(Chromium	11	0.73	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
(Copper	13	0.73	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
Ι	Lead	45	0.55	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
N	Mercury	0.34	0.029	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:38	CJV
1	Nickel	5.7	0.73	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
5	Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
5	Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
7	Гhallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH
2	Zinc	48	0.73	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:42	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-03 Sampled: 6/28/2021 09:05

Sample ID: 21G0035-03
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		91.1		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,3-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
cis-1,3-Dichloropropene	ND ND	0.0023				SW-846 8260C-D SW-846 8260C-D		7/2/21 16:28	MFF
trans-1,3-Dichloropropene			mg/Kg dry	1			7/2/21		
	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04
Sample Matrix: Soil

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

		vo	latile Organic Com	ipounds by G	C/NIS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Methyl Acetate	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Methyl Cyclohexane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:28	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		113	70-130					7/2/21 16:28	

97.5

99.6

70-130

70-130

7/2/21 16:28

7/2/21 16:28



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:38	BGL
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Nitrobenzene-d5		59.9	30-130					7/7/21 21:38	
2-Fluorobiphenyl		60.3	30-130					7/7/21 21:38	
p-Terphenyl-d14		82.9	30-130					7/7/21 21:38	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		- 0-)							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:33	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		85.3	30-150					7/10/21 19:33	
Decachlorobiphenyl [2]		74.4	30-150					7/10/21 19:33	
Tetrachloro-m-xylene [1]		85.2	30-150					7/10/21 19:33	
Tetrachloro-m-xylene [2]		79.3	30-150					7/10/21 19:33	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	10	9.1	mg/Kg dry	1	Z-01c	SW-846 8015C	7/2/21	7/7/21 15:04	SFM
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenvl		51.1	40-140					7/7/21 15:04	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-3 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04
Sample Matrix: Soil

Metals Analyses (Total)

				•	, ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	МЈН
Arsenic		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Beryllium		0.21	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Cadmium		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Chromium		4.5	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Copper		3.2	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Lead		1.7	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Mercury		ND	0.031	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:39	CJV
Nickel		4.2	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Selenium		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Silver		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH
Zinc		11	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:49	MJH



SB-3 Project Location: 719 River St, Woonsocket, RI Sample Description: Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-04 Sampled: 6/28/2021 09:10

Sample ID: 21G0035-04 Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		91.3		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
rans-1,3-Dichloropropene	ND ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Diethyl Ether		0.0010							
Diemyi Emei	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Disspeopyl Ether (DIPE) ND 0,0010 mg/Kg dry 1 SW-846 8260C-D 77.21 7.221 16.52	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Employ Part	Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Hexachlorobutadiene	1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
2-Hexanone (MBK) ND 0.020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Isopropyllobrane (Cumene) ND 0.0020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 p-Isopropyllobrane (F-Cymene) ND 0.0020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Methyl Acettae ND 0.0041 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Methyl Letr-Buyl Ether (MTBE) ND 0.0020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Methylenc Chloride ND 0.020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Methylenc Chloride ND 0.020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Methylenc Chloride ND 0.020 mg/Kg dy 1 SW-846 8260C-D 7.221 7.221 16:52 Methylenc Chloride ND 0.020 mg/Kg dy 1 SW-846 8260C-D 7.221	Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Sopropylbenzene (Cumene)	Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
p-lsopropylloluene (p-Cymene) ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl Acetate ND 0.0041 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl Letri-Buryl Ether (MTBE) ND 0.0041 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl Letri-Buryl Ether (MTBE) ND 0.0041 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl Cyclobracane ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl-Letri-Buryl Ether (MTBE) ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl-Letri-Buryl Ether (MTBK) ND 0.020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-846 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-846 Ng-Mathalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Ng-846 Ng-Mathalene ND 0.00	2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Methyl Acetate ND 0.0041 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl acetate ND 0.0041 mg/kg dry 1 SW-846 8260C-D 7/21 7/221 16:52 Methyl Cyclobexane ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 4-Methyl-2-pentanone (MIBK) ND 0.020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 4-Methyl-2-pentanone (MIBK) ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Nphthalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 17:221 16:52 Nphthalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Nphthalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 17:221 16:52 Nphthalene ND 0.0020 mg/kg dry 1 SW-846 8260C-D 7/221 7/221 17:221 16:52 </td <td>Isopropylbenzene (Cumene)</td> <td>ND</td> <td>0.0020</td> <td>mg/Kg dry</td> <td>1</td> <td></td> <td>SW-846 8260C-D</td> <td>7/2/21</td> <td>7/2/21 16:52</td> <td>MFF</td>	Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Methyl terte Butyl Ether (MTBE) ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methyl Cyclohexane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methylene Chloride ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 4-Methyl-2-pentanone (MIBK) ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Aphthalene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Byrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Tetrachlorochane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 <tr< td=""><td>p-Isopropyltoluene (p-Cymene)</td><td>ND</td><td>0.0020</td><td>mg/Kg dry</td><td>1</td><td></td><td>SW-846 8260C-D</td><td>7/2/21</td><td>7/2/21 16:52</td><td>MFF</td></tr<>	p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Methyl Cyclohexane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Methylene Chloride ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 4-Methyl-2-pentanone (MIBK) ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Naphthalene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Np-propylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,1,2-Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 17:221 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 77:221 17:221 16:52	Methyl Acetate	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Methylene Chloride ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 4-Methyl-2-pentanone (MIBK) ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Naphthalene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 n-Propylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Tetrachloroethylene ND 0.0010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21	Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
### Abrily1-2-pentianone (MIBK) ND 0.020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Naphthalene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Naphthalene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 I,1,1,2-Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tirchloroethylene ND 0.0020 mg/Kg dry 1 SW-846 826	Methyl Cyclohexane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Naphthalene	Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
n-Propylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1,2-Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2,2-Tetrachloroethane ND 0.0010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2,2-Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrahydrofuran ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrahydrofuran ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,4-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloroethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:	4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Styrene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,1,1,2-Tetrachloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,1,2,2-Tetrachloroethane ND 0.0010 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 Toluene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,3,5-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,1,2-Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/221 7/221 16:52 1,2,3-Trichloroptopane ND 0.0020 mg/Kg dry 1 SW-846 8	Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1,2-Tetrachloroethane	n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1,2,2-Tetrachloroethane	Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Tetrachloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Tetrahydrofuran ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Toluene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,4-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofthoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofthylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3-Trimethy	1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Tetrahydrofuran ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Toluene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,4-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloro-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene	1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Toluene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,4-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloro-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylben	Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2,3-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,4-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 I,1,2-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 826	Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2,4-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloror-1,2,2-trifluoroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 (Freon 113) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7	Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,3,5-Trichlorobenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 (Freon 113) 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 </td <td>1,2,3-Trichlorobenzene</td> <td>ND</td> <td>0.0020</td> <td>mg/Kg dry</td> <td>1</td> <td></td> <td>SW-846 8260C-D</td> <td>7/2/21</td> <td>7/2/21 16:52</td> <td>MFF</td>	1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1,1-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon II) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 (Freon 113) 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 w-p Xylene ND 0.0041 mg/Kg dry 1 <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td>0.0020</td> <td>mg/Kg dry</td> <td>1</td> <td></td> <td>SW-846 8260C-D</td> <td>7/2/21</td> <td>7/2/21 16:52</td> <td>MFF</td>	1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1,2-Trichloroethane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane (Preon 113) 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Limits Flag/Qual	1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Trichloroethylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 (Freon 113) 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1	1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Trichlorofluoromethane (Freon 11) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual	1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2,3-Trichloropropane ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual	Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 (Freon 113) 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual	Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
(Freon 113) 1,2,4-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual	1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,3,5-Trimethylbenzene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual		ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Vinyl Chloride ND 0.010 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual	1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
m+p Xylene ND 0.0041 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Recovery Limits Flag/Qual	1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
o-Xylene ND 0.0020 mg/Kg dry 1 SW-846 8260C-D 7/2/21 7/2/21 16:52 Surrogates % Recovery Limits Flag/Qual	Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
Surrogates % Recovery Recovery Limits Flag/Qual	m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
	o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:52	MFF
1,2-Dichloroethane-d4 102 70-130 7/2/21 16:52	Surrogates		% Recovery	Recovery Limit	ts	Flag/Qual				
	1,2-Dichloroethane-d4		102	70-130					7/2/21 16:52	

70-130

70-130

95.0

88.5

7/2/21 16:52

7/2/21 16:52



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

				1					
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Anthracene	0.30	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Benzo(a)anthracene	1.4	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Benzo(a)pyrene	1.5	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Benzo(b)fluoranthene	1.9	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Benzo(g,h,i)perylene	0.97	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Benzo(k)fluoranthene	0.72	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Chrysene	1.4	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Dibenz(a,h)anthracene	0.26	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Indeno(1,2,3-cd)pyrene	1.0	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Phenanthrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Pyrene	2.7	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:05	BGL
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Nitrobenzene-d5		63.9	30-130					7/7/21 22:05	
2-Fluorobiphenyl		62.5	30-130					7/7/21 22:05	
p-Terphenyl-d14		84.9	30-130					7/7/21 22:05	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1260 [2]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 19:51	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		80.7	30-150					7/10/21 19:51	
Decachlorobiphenyl [2]		95.1	30-150					7/10/21 19:51	
Tetrachloro-m-xylene [1]		82.5	30-150					7/10/21 19:51	
Tetrachloro-m-xylene [2]		74.1	30-150					7/10/21 19:51	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	390	91	mg/Kg dry	10	O-26	SW-846 8015C	7/2/21	7/7/21 18:43	SFM
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobinhenyl		43.0	40-140					7/7/21 18:43	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

Metals Analyses (Total)

					. ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	МЈН
Arsenic		4.3	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Beryllium		0.48	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Cadmium		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Chromium		9.6	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Copper		16	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Lead		53	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Mercury		0.047	0.032	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:41	CJV
Nickel		7.7	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Selenium		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Silver		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH
Zinc		49	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 17:56	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-05 Sampled: 6/28/2021 10:04

Sample ID: 21G0035-05
Sample Matrix: Soil

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		91.0		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Acrylonitrile	ND	0.0060	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromomethane	ND	0.0099	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Butyl Alcohol (TBA)	ND	0.099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chlorodibromomethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chloromethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1	* 03	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
trans-1,2-Dichloroethylene	ND ND	0.0020		1		SW-846 8260C-D	7/2/21		MFF
1,2-Dichloropropane		0.0020	mg/Kg dry				7/2/21	7/2/21 17:16	
1,3-Dichloropropane	ND ND	0.0020	mg/Kg dry	1		SW-846 8260C-D		7/2/21 17:16 7/2/21 17:16	MFF
2,2-Dichloropropane	ND ND		mg/Kg dry	1		SW-846 8260C-D SW-846 8260C-D	7/2/21		MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1			7/2/21	7/2/21 17:16	MFF
* *	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
cis-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
trans-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

		***	iathe Organic Con	ipounus by G	Civio		D-4-	D-4-/T:	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,4-Dioxane	ND	0.099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methyl Acetate	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Tetrahydrofuran	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Vinyl Chloride	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Surrogates		% Recovery	Recovery Limit	ts	Flag/Qual				
1,2-Dichloroethane-d4		111	70-130					7/2/21 17:16	

98.0

97.5

70-130

70-130

7/2/21 17:16

7/2/21 17:16



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 22:33	BGL
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
Nitrobenzene-d5		60.2	30-130	_				7/7/21 22:33	
2-Fluorobiphenyl		59.9	30-130					7/7/21 22:33	
p-Terphenyl-d14		83.3	30-130					7/7/21 22:33	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:08	JMB
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		85.1	30-150					7/10/21 20:08	
Decachlorobiphenyl [2]		77.0	30-150					7/10/21 20:08	
Tetrachloro-m-xylene [1]		88.6	30-150					7/10/21 20:08	
Tetrachloro-m-xylene [2]		82.1	30-150					7/10/21 20:08	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

			-	-					
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
TPH (C9-C36)	9.5	9.2	mg/Kg dry	1	Z-01c	SW-846 8015C	7/2/21	7/7/21 15:25	SFM
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
2-Fluorobinhenyl		52.9	40-140					7/7/21 15:25	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	МЈН
	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	0.25	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	7.0	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	16	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	260	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	0.73	0.028	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:47	CJV
	4.4	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	44	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:02	MJH
	Analyte	ND ND 0.25 ND 7.0 16 260 0.73 4.4 ND ND ND	ND 1.8 ND 3.6 0.25 0.18 ND 0.36 7.0 0.72 16 0.72 260 0.54 0.73 0.028 4.4 0.72 ND 3.6 ND 0.36 ND 0.36 ND 1.8	ND 1.8 mg/Kg dry ND 3.6 mg/Kg dry 0.25 0.18 mg/Kg dry ND 0.36 mg/Kg dry 7.0 0.72 mg/Kg dry 16 0.72 mg/Kg dry 260 0.54 mg/Kg dry 0.73 0.028 mg/Kg dry 4.4 0.72 mg/Kg dry ND 3.6 mg/Kg dry ND 0.36 mg/Kg dry ND 0.36 mg/Kg dry ND 0.36 mg/Kg dry	ND 1.8 mg/Kg dry 1 ND 3.6 mg/Kg dry 1 0.25 0.18 mg/Kg dry 1 ND 0.36 mg/Kg dry 1 7.0 0.72 mg/Kg dry 1 16 0.72 mg/Kg dry 1 260 0.54 mg/Kg dry 1 0.73 0.028 mg/Kg dry 1 4.4 0.72 mg/Kg dry 1 ND 3.6 mg/Kg dry 1 ND 0.36 mg/Kg dry 1	ND 1.8 mg/Kg dry 1 ND 3.6 mg/Kg dry 1 0.25 0.18 mg/Kg dry 1 ND 0.36 mg/Kg dry 1 7.0 0.72 mg/Kg dry 1 16 0.72 mg/Kg dry 1 260 0.54 mg/Kg dry 1 0.73 0.028 mg/Kg dry 1 4.4 0.72 mg/Kg dry 1 ND 3.6 mg/Kg dry 1 ND 0.36 mg/Kg dry 1	ND 1.8 mg/Kg dry 1 SW-846 6010D ND 3.6 mg/Kg dry 1 SW-846 6010D 0.25 0.18 mg/Kg dry 1 SW-846 6010D ND 0.36 mg/Kg dry 1 SW-846 6010D 7.0 0.72 mg/Kg dry 1 SW-846 6010D 16 0.72 mg/Kg dry 1 SW-846 6010D 260 0.54 mg/Kg dry 1 SW-846 6010D 0.73 0.028 mg/Kg dry 1 SW-846 6010D 0.74 mg/Kg dry 1 SW-846 6010D ND 3.6 mg/Kg dry 1 SW-846 6010D ND 3.6 mg/Kg dry 1 SW-846 6010D ND 0.36 mg/Kg dry 1 SW-846 6010D	Analyte Results RL Units Dilution Flag/Qual Method Prepared ND 1.8 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 3.6 mg/Kg dry 1 SW-846 6010D 7/2/21 0.25 0.18 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.36 mg/Kg dry 1 SW-846 6010D 7/2/21 7.0 0.72 mg/Kg dry 1 SW-846 6010D 7/2/21 16 0.72 mg/Kg dry 1 SW-846 6010D 7/2/21 260 0.54 mg/Kg dry 1 SW-846 6010D 7/2/21 4.4 0.72 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 3.6 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.36 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.8 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.8	Analyte Results RL Units Dilution Flag/Qual Method Prepared Analyzed ND 1.8 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 ND 3.6 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 ND 0.36 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 7.0 0.72 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 16 0.72 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 260 0.54 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 0.73 0.028 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 ND 3.6 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 ND 3.6 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 18:02 ND 0.36 mg/Kg dry



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G0035-06
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		90.4		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Acrylonitrile	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Bromochloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Bromoform	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Bromomethane	ND	0.013	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
2-Butanone (MEK)	ND	0.053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
tert-Butyl Alcohol (TBA)	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Carbon Disulfide	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Chloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Chloroform	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
trans-1,4-Dichloro-2-butene	ND	0.0053	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1-Dichloroethylene	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Diethyl Ether	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

1,2-Dichloroethane-d4

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Methyl Acetate	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Methyl Cyclohexane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Methylene Chloride	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Naphthalene	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,3,5-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
m+p Xylene	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:41	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				

118

97.2

97.3

70-130

70-130

70-130

7/2/21 17:41

7/2/21 17:41

7/2/21 17:41



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Anthracene	0.21	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Benzo(a)anthracene	0.58	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Benzo(a)pyrene	0.48	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Benzo(b)fluoranthene	0.56	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Benzo(g,h,i)perylene	0.27	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Benzo(k)fluoranthene	0.23	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Chrysene	0.52	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Fluoranthene	1.1	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Indeno(1,2,3-cd)pyrene	0.28	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Phenanthrene	1.0	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Pyrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:00	BGL
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Nitrobenzene-d5		50.5	30-130					7/7/21 23:00	
2-Fluorobiphenyl		50.0	30-130					7/7/21 23:00	
p-Terphenyl-d14		72.4	30-130					7/7/21 23:00	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:26	JMB
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		84.8	30-150					7/10/21 20:26	
Decachlorobiphenyl [2]		77.4	30-150					7/10/21 20:26	
Tetrachloro-m-xylene [1]		85.8	30-150					7/10/21 20:26	
Tetrachloro-m-xylene [2]		78.1	30-150					7/10/21 20:26	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	74	9.5	mg/Kg dry	1	O-26	SW-846 8015C	7/2/21	7/7/21 16:48	SFM
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
2-Fluorobiphenyl		40.8	40-140					7/7/21 16:48	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

Metals Analyses (Total)

			1,100013 111111	(10111)					
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	MJH
Arsenic	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Beryllium	0.36	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Cadmium	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Chromium	7.5	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Copper	21	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Lead	2.9	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	MJH
Mercury	0.081	0.030	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:49	CJV
Nickel	3.9	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	МЈН
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	MJH
Zinc	14	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:09	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-07 Sampled: 6/28/2021 10:32

Sample ID: 21G0035-07
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		88.1		% Wt	1		SM 2540G	7/2/21	7/3/21 9:39	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analysi
Acetone	ND	2.2	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Acrylonitrile	ND	0.22	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Benzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Bromobenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Bromochloromethane	ND	0.043	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Bromodichloromethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Bromoform	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Bromomethane	ND	0.087	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
2-Butanone (MEK)	ND	0.87	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
tert-Butyl Alcohol (TBA)	ND	0.87	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
n-Butylbenzene	1.2	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
sec-Butylbenzene	0.84	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
tert-Butylbenzene	0.052	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Carbon Disulfide	ND	0.22	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Carbon Tetrachloride	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Chlorobenzene	0.37	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Chlorodibromomethane	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Chloroethane	ND	0.087	mg/Kg dry	1	R-05	SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Chloroform	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Chloromethane	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
2-Chlorotoluene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
4-Chlorotoluene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.22	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2-Dibromoethane (EDB)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Dibromomethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2-Dichlorobenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,3-Dichlorobenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,4-Dichlorobenzene	0.21	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
trans-1,4-Dichloro-2-butene	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1-Dichloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2-Dichloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1-Dichloroethylene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
cis-1,2-Dichloroethylene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
trans-1,2-Dichloroethylene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2-Dichloropropane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,3-Dichloropropane	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
2,2-Dichloropropane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1-Dichloropropene	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
cis-1,3-Dichloropropene	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
trans-1,3-Dichloropropene	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,4-Dioxane	ND	2.2	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Ethylbenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Hexachlorobutadiene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
2-Hexanone (MBK)	ND	0.43	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Isopropylbenzene (Cumene)	0.98	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Methyl Acetate	ND	0.43	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Methyl Cyclohexane	1.5	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Methylene Chloride	ND	0.22	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.43	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Naphthalene	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
n-Propylbenzene	1.8	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Styrene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1,1,2-Tetrachloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1,2,2-Tetrachloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Tetrachloroethylene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Tetrahydrofuran	ND	0.43	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Toluene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2,3-Trichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2,4-Trichlorobenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,3,5-Trichlorobenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1,1-Trichloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1,2-Trichloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Trichloroethylene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Trichlorofluoromethane (Freon 11)	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2,3-Trichloropropane	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,2,4-Trimethylbenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
1,3,5-Trimethylbenzene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Vinyl Chloride	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
m+p Xylene	ND	0.087	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
o-Xylene	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:10	EEH
Surrogates		% Recovery	Recovery Limit	ts	Flag/Qual				
1,2-Dichloroethane-d4		86.5	70-130					7/2/21 19:10	
m 1 10		0.6.0	E0 400					= 10 10 4 4 0 4 0	

70-130

70-130

96.0

123

7/2/21 19:10

7/2/21 19:10



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

Sample Flags: RL-12 Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Acenaphthylene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Anthracene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Benzo(a)anthracene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Benzo(a)pyrene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Benzo(b)fluoranthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Benzo(g,h,i)perylene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Benzo(k)fluoranthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Chrysene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Dibenz(a,h)anthracene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Fluoranthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Fluorene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Indeno(1,2,3-cd)pyrene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
2-Methylnaphthalene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Naphthalene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Phenanthrene	3.8	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Pyrene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:31	BGL
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
Nitrobenzene-d5		80.0	30-130		_			7/9/21 0:31	
2-Fluorobiphenyl		69.8	30-130					7/9/21 0:31	
p-Terphenyl-d14		112	30-130					7/9/21 0:31	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 20:43	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		77.6	30-150					7/10/21 20:43	
Decachlorobiphenyl [2]		67.1	30-150					7/10/21 20:43	
Tetrachloro-m-xylene [1]		73.3	30-150					7/10/21 20:43	
Tetrachloro-m-xylene [2]		66.2	30-150					7/10/21 20:43	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	6800	440	mg/Kg dry	50	Z-01b	SW-846 8015C	7/2/21	7/8/21 20:39	RMW
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			7/8/21 20:39	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

Metals Analyses (Total)

			Wietuis I iliui	y 5 c 5 (1 o t a 1)					
							Date	Date/Time	
Analyte	Result	s RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Arsenic	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Beryllium	0.25	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Chromium	7.4	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Copper	5.9	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Lead	1.5	0.52	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:51	CJV
Nickel	8.0	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH
Zinc	16	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:16	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-5 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-08 Sampled: 6/28/2021 10:45

Sample ID: 21G0035-08
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		93.7		% Wt	1	•	SM 2540G	7/2/21	7/3/21 9:39	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acetone	ND	0.095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Acrylonitrile	ND	0.0057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Bromomethane	ND	0.0095	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
tert-Butyl Alcohol (TBA)	ND	0.095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Chlorodibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Chloromethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,3-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
cis-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
trans-1,3-Dichloropropene									



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,4-Dioxane	ND	0.095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Methyl Acetate	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Methyl Cyclohexane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Tetrahydrofuran	ND	0.0095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,3,5-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Vinyl Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:05	MFF
Surrogates		% Recovery	Recovery Limit	ts	Flag/Qual				
1,2-Dichloroethane-d4		114	70-130					7/2/21 18:05	

70-130

70-130

7/2/21 18:05

7/2/21 18:05

99.3

96.8



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Benzo(a)anthracene	0.46	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Benzo(a)pyrene	0.39	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Benzo(b)fluoranthene	0.54	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Benzo(g,h,i)perylene	0.29	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Benzo(k)fluoranthene	0.21	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Chrysene	0.48	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Fluoranthene	0.93	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Indeno(1,2,3-cd)pyrene	0.28	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
2-Methylnaphthalene	0.20	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Phenanthrene	0.86	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Pyrene	0.93	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 23:54	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		61.9	30-130					7/7/21 23:54	
2-Fluorobiphenyl		56.8	30-130					7/7/21 23:54	
p-Terphenyl-d14		80.1	30-130					7/7/21 23:54	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1260 [2]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:01	JMB
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		78.1	30-150					7/10/21 21:01	
Decachlorobiphenyl [2]		72.9	30-150					7/10/21 21:01	
Tetrachloro-m-xylene [1]		87.2	30-150					7/10/21 21:01	
Tetrachloro-m-xylene [2]		79.0	30-150					7/10/21 21:01	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	220	18	mg/Kg dry	2	Z-01b	SW-846 8015C	7/2/21	7/8/21 2:02	RDD
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobinhenyl		59 9	40-140					7/8/21 2:02	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

Metals Analyses (Total)

			Wietais Aliai	yses (Total)					
Anal	lyte Result:	s RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
	Nesuit.	5 KL	Cilits	Dilution	riag/Quai	Method	Trepareu	Allalyzeu	Allalyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Arsenic	11	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Beryllium	0.39	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Cadmium	1.1	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Chromium	16	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Copper	89	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Lead	220	0.53	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Mercury	0.22	0.028	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:53	CJV
Nickel	8.7	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:23	MJH
Zinc	690	3.5	mg/Kg dry	5		SW-846 6010D	7/2/21	7/7/21 20:12	AJL



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G0035-09
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		93.2		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acetone	ND	0.20	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Acrylonitrile	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Benzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Bromobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Bromochloromethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Bromodichloromethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Bromoform	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Bromomethane	ND	0.020	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
2-Butanone (MEK)	ND	0.081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
tert-Butyl Alcohol (TBA)	ND	0.20	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
n-Butylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
sec-Butylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
tert-Butylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Carbon Disulfide	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Carbon Tetrachloride	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Chlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Chloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Chloroform	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Chloromethane	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
2-Chlorotoluene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
4-Chlorotoluene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Dibromomethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2-Dichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,3-Dichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,4-Dichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
trans-1,4-Dichloro-2-butene	ND	0.0081	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1-Dichloroethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2-Dichloroethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1-Dichloroethylene	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
cis-1,2-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
trans-1,2-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2-Dichloropropane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,3-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
2,2-Dichloropropane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1-Dichloropropene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
cis-1,3-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
trans-1,3-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
* *			881						



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Toluene-d8

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

			iathe Organic Con	гроиниз ву О	CHILD				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0020	mg/Kg dry	1	1 mg/ 2 mm	SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,4-Dioxane	ND	0.20	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Ethylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Hexachlorobutadiene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
2-Hexanone (MBK)	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Isopropylbenzene (Cumene)	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Methyl Acetate	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Methyl Cyclohexane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Methylene Chloride	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Naphthalene	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
n-Propylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Styrene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Tetrachloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Tetrahydrofuran	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Toluene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,3,5-Trichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1,1-Trichloroethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1,2-Trichloroethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Trichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2,3-Trichloropropane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,2,4-Trimethylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
1,3,5-Trimethylbenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Vinyl Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
m+p Xylene	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
o-Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:30	MFF
Surrogates		% Recovery	Recovery Limit	ts	Flag/Qual				
1,2-Dichloroethane-d4		115	70-130					7/2/21 18:30	

70-130

70-130

94.2

87.9

7/2/21 18:30

7/2/21 18:30



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Anthracene	0.24	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Benzo(a)anthracene	1.3	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Benzo(a)pyrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Benzo(b)fluoranthene	1.5	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Benzo(g,h,i)perylene	0.74	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Benzo(k)fluoranthene	0.44	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Chrysene	1.7	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Dibenz(a,h)anthracene	0.20	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Fluoranthene	2.3	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Indeno(1,2,3-cd)pyrene	0.64	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Phenanthrene	2.0	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Pyrene	2.9	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 0:21	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		71.2	30-130					7/8/21 0:21	
2-Fluorobiphenyl		73.4	30-130					7/8/21 0:21	
p-Terphenyl-d14		93.5	30-130					7/8/21 0:21	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 21:18	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		73.5	30-150					7/10/21 21:18	
Decachlorobiphenyl [2]		67.9	30-150					7/10/21 21:18	
Tetrachloro-m-xylene [1]		90.0	30-150					7/10/21 21:18	
Tetrachloro-m-xylene [2]		81.9	30-150					7/10/21 21:18	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	260	19	mg/Kg dry	2	Z-01b	SW-846 8015C	7/2/21	7/8/21 2:23	RDD
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl		63.8	40-140					7/8/21 2:23	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Metals Analyses (Total)

			Trictuis Tinui	yses (Total)					
Α	.nalyte Results	s RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1	0 -	SW-846 6010D	7/2/21	7/6/21 18:30	МЈН
Arsenic	8.8	3.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	МЈН
Beryllium	1.3	0.19	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	МЈН
Cadmium	ND	0.37	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Chromium	9.9	0.75	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Copper	29	0.75	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Lead	860	0.56	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Mercury	0.034	0.033	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:55	CJV
Nickel	9.7	0.75	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH
Zinc	42	0.75	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:30	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G0035-10
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		88.3		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.3	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Acrylonitrile	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Benzene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Bromobenzene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Bromochloromethane	ND	0.047	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Bromodichloromethane	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Bromoform	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Bromomethane	ND	0.094	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
2-Butanone (MEK)	ND	0.94	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
tert-Butyl Alcohol (TBA)	ND	0.94	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
n-Butylbenzene	0.11	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
sec-Butylbenzene	0.17	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
tert-Butylbenzene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Carbon Disulfide	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Carbon Tetrachloride	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Chlorobenzene	0.12	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Chlorodibromomethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Chloroethane	ND	0.094	mg/Kg dry	1	R-05	SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Chloroform	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Chloromethane	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
2-Chlorotoluene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
4-Chlorotoluene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2-Dibromoethane (EDB)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Dibromomethane	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2-Dichlorobenzene	0.16	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,3-Dichlorobenzene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,4-Dichlorobenzene	0.13	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
trans-1,4-Dichloro-2-butene	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1-Dichloroethane	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2-Dichloroethane	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1-Dichloroethylene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
cis-1,2-Dichloroethylene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
trans-1,2-Dichloroethylene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2-Dichloropropane	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,3-Dichloropropane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
2,2-Dichloropropane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1-Dichloropropene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
cis-1,3-Dichloropropene	ND ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
trans-1,3-Dichloropropene	ND ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Diethyl Ether									
Dietilyi Etilei	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

		***	iathe Organic Com	pounds by G	C/NS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.023	mg/Kg dry	1	r rag/Quar	SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,4-Dioxane	ND	2.3	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Ethylbenzene	0.25	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Hexachlorobutadiene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
2-Hexanone (MBK)	ND	0.47	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Isopropylbenzene (Cumene)	0.24	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Methyl Acetate	ND	0.47	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Methyl Cyclohexane	1.3	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Methylene Chloride	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Naphthalene	0.15	0.47	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
n-Propylbenzene	0.13	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Styrene	0.39 ND	0.047		1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1,1,2-Tetrachloroethane	ND ND	0.047	mg/Kg dry mg/Kg dry	1		SW-846 8260C-D	7/2/21		EEH
1,1,2,2-Tetrachloroethane	ND	0.047		1		SW-846 8260C-D	7/2/21	7/2/21 18:43 7/2/21 18:43	EEH
Tetrachloroethylene	ND ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Tetrahydrofuran	ND ND	0.47	mg/Kg dry	1			7/2/21	7/2/21 18:43	EEH
Toluene	0.072	0.47	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2,3-Trichlorobenzene		0.047	mg/Kg dry	1		SW-846 8260C-D			EEH
1,2,4-Trichlorobenzene	ND		mg/Kg dry			SW-846 8260C-D	7/2/21	7/2/21 18:43	
1,3,5-Trichlorobenzene	ND ND	0.047 0.047	mg/Kg dry	1 1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1,1-Trichloroethane			mg/Kg dry			SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1,2-Trichloroethane	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Trichloroethylene	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Trichlorofluoromethane (Freon 11)	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2,3-Trichloropropane	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,2,4-Trimethylbenzene	0.062	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
1,3,5-Trimethylbenzene	0.049	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Vinyl Chloride	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
m+p Xylene	0.13	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
o-Xylene	0.064	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:43	EEH
Surrogates		% Recovery	Recovery Limits	5	Flag/Qual				
1,2-Dichloroethane-d4		89.7	70-130					7/2/21 18:43	

70-130

70-130

7/2/21 18:43

7/2/21 18:43

96.1

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Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

Sample Flags: RL-12 Semivolatile Organic Compounds by GC/MS

Sumpre Fragor ICE 12									
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Acenaphthylene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Anthracene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Benzo(a)anthracene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Benzo(a)pyrene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Benzo(b)fluoranthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Benzo(g,h,i)perylene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Benzo(k)fluoranthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Chrysene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Dibenz(a,h)anthracene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Fluoranthene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Fluorene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Indeno(1,2,3-cd)pyrene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
2-Methylnaphthalene	13	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Naphthalene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Phenanthrene	4.9	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Pyrene	ND	3.6	mg/Kg dry	20		SW-846 8270D-E	7/2/21	7/9/21 0:59	BGL
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Nitrobenzene-d5		65.2	30-130					7/9/21 0:59	
2-Fluorobiphenyl		55.2	30-130					7/9/21 0:59	
p-Terphenyl-d14		85.6	30-130					7/9/21 0:59	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 15:33	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		64.4	30-150					7/10/21 15:33	
Decachlorobiphenyl [2]		56.1	30-150					7/10/21 15:33	
Tetrachloro-m-xylene [1]		65.5	30-150					7/10/21 15:33	
Tetrachloro-m-xylene [2]		60.0	30-150					7/10/21 15:33	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	12000	880	mg/Kg dry	100	Z-01b	SW-846 8015C	7/2/21	7/8/21 19:58	RMW
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			7/8/21 19:58	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

Metals Analyses (Total)

			Wictuis Tinui	yses (Total)					
Analy	rte Result	s RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	МЈН
Arsenic	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	МЈН
Beryllium	0.23	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	МЈН
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Chromium	13	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	МЈН
Copper	8.3	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Lead	34	0.53	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:56	CJV
Nickel	6.7	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH
Zinc	16	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:37	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-11 Sampled: 6/28/2021 14:05

Sample ID: 21G0035-11
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		93.9		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.9	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Acrylonitrile	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Benzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Bromobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Bromochloromethane	ND	0.057	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Bromodichloromethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Bromoform	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Bromomethane	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
tert-Butyl Alcohol (TBA)	ND	1.1	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
n-Butylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
sec-Butylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
tert-Butylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Carbon Disulfide	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Carbon Tetrachloride	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Chlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Chlorodibromomethane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Chloroethane	ND	0.11	mg/Kg dry	1	R-05	SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Chloromethane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
2-Chlorotoluene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
4-Chlorotoluene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2-Dibromoethane (EDB)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Dibromomethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2-Dichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,3-Dichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,4-Dichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
trans-1,4-Dichloro-2-butene	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1-Dichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2-Dichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1-Dichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
cis-1,2-Dichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
trans-1,2-Dichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2-Dichloropropane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,3-Dichloropropane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
2,2-Dichloropropane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1-Dichloropropene	ND	0.037	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
cis-1,3-Dichloropropene	ND ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
trans-1,3-Dichloropropene	ND ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Diethyl Ether									
Dietilyi Etilei	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,4-Dioxane	ND	2.9	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Ethylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Hexachlorobutadiene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
2-Hexanone (MBK)	ND	0.57	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Isopropylbenzene (Cumene)	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Methyl Acetate	ND	0.57	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Methyl Cyclohexane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Methylene Chloride	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.57	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Naphthalene	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
n-Propylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Styrene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1,1,2-Tetrachloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Tetrachloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Tetrahydrofuran	ND	0.57	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Toluene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2,3-Trichlorobenzene	ND	0.29	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2,4-Trichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,3,5-Trichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1,1-Trichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1,2-Trichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Trichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,2,4-Trimethylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
1,3,5-Trimethylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Vinyl Chloride	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
o-Xylene	ND	0.057	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:15	EEH
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.2	70-130		7/2/21 18:15
Toluene-d8	94.6	70-130		7/2/21 18:15
4-Bromofluorobenzene	98.0	70-130		7/2/21 18:15



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Acenaphthylene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Anthracene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Benzo(a)anthracene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Benzo(a)pyrene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Benzo(b)fluoranthene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Benzo(g,h,i)perylene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Benzo(k)fluoranthene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Chrysene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Dibenz(a,h)anthracene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Fluoranthene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Fluorene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Indeno(1,2,3-cd)pyrene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
2-Methylnaphthalene	16	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Naphthalene	ND	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Phenanthrene	5.6	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Pyrene	2.1	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/8/21 1:14	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		55.6	30-130					7/8/21 1:14	
2-Fluorobiphenyl		42.5	30-130					7/8/21 1:14	
p-Terphenyl-d14		73.6	30-130					7/8/21 1:14	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:41	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		75.7	30-150					7/10/21 22:41	
Decachlorobiphenyl [2]		65.5	30-150					7/10/21 22:41	
Tetrachloro-m-xylene [1]		73.9	30-150					7/10/21 22:41	
Tetrachloro-m-xylene [2]		66.8	30-150					7/10/21 22:41	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

			-	-					
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
TPH (C9-C36)	15000	910	mg/Kg dry	100	Z-01b	SW-846 8015C	7/2/21	7/8/21 20:18	RMW
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl	·	*	40-140		S-01			7/8/21 20:18	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12 Sample Matrix: Soil

Metals Analyses (Total)

				Wicelis Hilli	(303 (1000)					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	МЈН
Arsenic		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	МЈН
Beryllium		0.23	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	МЈН
Cadmium		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Chromium		7.2	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Copper		6.1	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Lead		2.6	0.53	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Mercury		ND	0.032	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 10:58	CJV
Nickel		4.9	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Selenium		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Silver		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH
Zinc		12	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 18:43	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-12 Sampled: 6/28/2021 14:10

Sample ID: 21G0035-12
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		91.0		% Wt	1	•	SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: Trip Blank Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-13 Sampled: 6/28/2021 14:30

Sample ID: 21G0035-13
Sample Matrix: Trip Blank Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Bromomethane	ND	0.010	mg/Kg wet	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Diethyl Ether	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Dietilyi Etilei	ND	0.020	ilig/Kg wet	1		3 W-840 8200C-D	//2/21	//2/21 11.5/	WILL



Project Location: 719 River St, Woonsocket, RI Sample Description: Trip Blank Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210628-13 Sampled: 6/28/2021 14:30

Sample ID: 21G0035-13
Sample Matrix: Trip Blank Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,4-Dioxane	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Methyl Acetate	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 11:57	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		114	70-130					7/2/21 11:57	

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		7/2/21 11:57
Toluene-d8	99.0	70-130		7/2/21 11:57
4-Bromofluorobenzene	100	70-130		7/2/21 11:57



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-8 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Acrylonitrile	ND	0.0078	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Benzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Bromobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Bromochloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Bromodichloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Bromoform	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Bromomethane	ND	0.013	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
2-Butanone (MEK)	ND	0.052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
tert-Butyl Alcohol (TBA)	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
n-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
sec-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
tert-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Carbon Disulfide	ND	0.0078	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Carbon Tetrachloride	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Chlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Chloroethane	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Chloroform	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
2-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Dibromomethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,3-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,4-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
trans-1,4-Dichloro-2-butene	ND	0.0052	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1-Dichloroethylene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
cis-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
trans-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
2,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
• •		0.026	BB1)	•					



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-8 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14
Sample Matrix: Soil

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Ethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Hexachlorobutadiene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
2-Hexanone (MBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Isopropylbenzene (Cumene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Methyl Acetate	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Methyl Cyclohexane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Methylene Chloride	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Naphthalene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
n-Propylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Styrene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Tetrachloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Toluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2,3-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2,4-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,3,5-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1,1-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1,2-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Trichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2,3-Trichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,2,4-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
1,3,5-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
m+p Xylene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
o-Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:54	MFF
Surrogates		% Recovery	Recovery Limit	ts	Flag/Qual				
1,2-Dichloroethane-d4		113	70-130					7/2/21 18:54	_

98.5

93.4

70-130

70-130

7/2/21 18:54

7/2/21 18:54



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-8 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14
Sample Matrix: Soil

Sample Flags: RL-12

Sample Flags: KL-12		Seini	worathe Organic Cor	iipounus by	GC/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Anthracene	0.78	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Benzo(a)anthracene	4.8	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Benzo(a)pyrene	4.1	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Benzo(b)fluoranthene	5.0	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Benzo(g,h,i)perylene	2.9	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Benzo(k)fluoranthene	1.7	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Chrysene	6.3	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Dibenz(a,h)anthracene	0.82	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Fluoranthene	7.7	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Fluorene	ND	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Indeno(1,2,3-cd)pyrene	2.8	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Naphthalene	ND	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Phenanthrene	6.4	0.38	mg/Kg dry	2		SW-846 8270D-E	7/2/21	7/8/21 1:42	BGL
Pyrene	9.1	1.9	mg/Kg dry	10		SW-846 8270D-E	7/2/21	7/9/21 2:22	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		44.0	30-130					7/9/21 2:22	
Nitrobenzene-d5		57.1	30-130					7/8/21 1:42	
2-Fluorobiphenyl		42.7	30-130					7/9/21 2:22	
2-Fluorobiphenyl		52.8	30-130					7/8/21 1:42	
p-Terphenyl-d14		65.6	30-130					7/9/21 2:22	
p-Terphenyl-d14		82.0	30-130					7/8/21 1:42	



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-8 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		-							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
			mg/Kg ury						
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 22:58	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		67.0	30-150					7/10/21 22:58	
Decachlorobiphenyl [2]		75.8	30-150					7/10/21 22:58	
Tetrachloro-m-xylene [1]		79.4	30-150					7/10/21 22:58	
Tetrachloro-m-xylene [2]		71.9	30-150					7/10/21 22:58	



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-8 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	1200	460	mg/Kg dry	50	O-26	SW-846 8015C	7/2/21	7/8/21 19:16	RMW
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			7/8/21 19:16	



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-8 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14
Sample Matrix: Soil

Metals Analyses (Total)

			Wictury Timur	yses (Total)					
Ana	lyte Results	s RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	МЈН
Arsenic	22	3.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	МЈН
Beryllium	0.44	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	МЈН
Cadmium	ND	0.37	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	МЈН
Chromium	200	0.74	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Copper	90	0.74	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Lead	240	0.55	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Mercury	0.28	0.032	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:00	CJV
Nickel	7.6	0.74	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH
Zinc	68	0.74	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:02	MJH



ME-8 Project Location: 719 River St, Woonsocket, RI Sample Description: Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 07:19

Sample ID: 21G0035-14 Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		88.2		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Acrylonitrile	ND	0.0064	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
cis-1,3-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Diethyl Ether		0.0011							
Diemyi Emei	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Toluene-d8

Volatile Organic Compounds by GC/MS

Diisopropyl Ether (DIPE) ND 0.0011 mg/Kg dry 1,4-Dioxane ND 0.11 mg/Kg dry Ethylbenzene ND 0.0021 mg/Kg dry Hexachlorobutadiene ND 0.0021 mg/Kg dry 2-Hexanone (MBK) ND 0.0021 mg/Kg dry Isopropylbenzene (Cumene) ND 0.0021 mg/Kg dry P-Isopropyltoluene (p-Cymene) ND 0.0021 mg/Kg dry Methyl Acetate ND 0.0043 mg/Kg dry Methyl Lether (MTBE) ND 0.0043 mg/Kg dry Methyl Cyclohexane ND 0.0021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.0021 mg/Kg dry Naphthalene ND 0.0021 mg/Kg dry N-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,	1 1 1 1 1 1		SW-846 8260C-D SW-846 8260C-D SW-846 8260C-D	7/2/21 7/2/21	7/2/21 19:18	MFF
Ethylbenzene ND 0.0021 mg/Kg dry Hexachlorobutadiene ND 0.0021 mg/Kg dry 2-Hexanone (MBK) ND 0.0021 mg/Kg dry Isopropylbenzene (Cumene) ND 0.0021 mg/Kg dry P-Isopropyltoluene (p-Cymene) ND 0.0021 mg/Kg dry Methyl Acetate ND 0.0043 mg/Kg dry Methyl Cyclohexane ND 0.0021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.0021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry Naphthalene ND 0.0021 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry styrene ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,2-Trichlorobenzene ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichloroethane ND 0.0021 mg/Kg dry Trichloroethone ND 0.0021 mg/Kg dry Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry	1 1 1			7/2/21		IVII
Hexachlorobutadiene	1 1 1		SW-846 8260C-D		7/2/21 19:18	MFF
2-Hexanone (MBK) ND 0.021 mg/Kg dry Isopropylbenzene (Cumene) ND 0.0021 mg/Kg dry p-Isopropyltoluene (p-Cymene) ND 0.0021 mg/Kg dry Methyl Acetate ND 0.0043 mg/Kg dry Methyl tert-Butyl Ether (MTBE) ND 0.0043 mg/Kg dry Methyl Cyclohexane ND 0.0021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry 4-Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry Naphthalene ND 0.0021 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry 1,2,3-Trichloroethane ND 0.0021 mg/Kg dry 1,2,3-Trichloroethane ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry	1			7/2/21	7/2/21 19:18	MFF
Isopropylbenzene (Cumene)	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
p-Isopropyltoluene (p-Cymene) Methyl Acetate ND 0.0021 mg/Kg dry Methyl Acetate ND 0.0043 mg/Kg dry Methyl tert-Butyl Ether (MTBE) ND 0.0021 mg/Kg dry Methyl Cyclohexane ND 0.0021 mg/Kg dry Methylene Chloride ND 0.0021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.0021 mg/Kg dry Naphthalene ND 0.0021 mg/Kg dry Naphthalene ND 0.0021 mg/Kg dry N-Propylbenzene ND 0.0021 mg/Kg dry ND 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0011 mg/Kg dry Tetrahydrofuran ND 0.0011 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichloroethane ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry Tithloroethane ND 0.0021 mg/Kg dry Tithloroethane ND 0.0021 mg/Kg dry Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichloroethylene			SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Methyl Acetate ND 0.0043 mg/Kg dry Methyl tert-Butyl Ether (MTBE) ND 0.0043 mg/Kg dry Methyl Cyclohexane ND 0.0021 mg/Kg dry Methylene Chloride ND 0.021 mg/Kg dry Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry Naphthalene ND 0.0043 mg/Kg dry Naphthalene ND 0.0021 mg/Kg dry N-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry Type ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrachlorobenzene ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Methyl tert-Butyl Ether (MTBE) ND 0.0043 mg/Kg dry Methyl Cyclohexane ND 0.0021 mg/Kg dry Methylene Chloride ND 0.021 mg/Kg dry Methylene Chloride ND 0.021 mg/Kg dry 4-Methyl-2-pentanone (MIBK) ND 0.0021 mg/Kg dry Naphthalene ND 0.0043 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichloroethane ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry			SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Methyl Cyclohexane ND 0.0021 mg/Kg dry Methylene Chloride ND 0.021 mg/Kg dry 4-Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry Naphthalene ND 0.0043 mg/Kg dry N-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Tric	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Methylene Chloride ND 0.021 mg/Kg dry 4-Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry Naphthalene ND 0.0043 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.0021 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
4-Methyl-2-pentanone (MIBK) ND 0.021 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.0011 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.0011 mg/Kg dry Trichloro-1,2,2-trifluoroethane ND 0.0011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Naphthalene ND 0.0043 mg/Kg dry n-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloro-1,2,2-trifluoroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/K	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
n-Propylbenzene ND 0.0021 mg/Kg dry Styrene ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.0021 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Styrene ND 0.0021 mg/Kg dry 1,1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.0011 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.001 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1,1,2-Tetrachloroethane ND 0.0021 mg/Kg dry 1,1,2,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.0011 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.001 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1,2,2-Tetrachloroethane ND 0.0011 mg/Kg dry Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.011 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/Kg dry (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Tetrachloroethylene ND 0.0021 mg/Kg dry Tetrahydrofuran ND 0.0011 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloro-1,2,2-trifluoroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Tetrahydrofuran ND 0.011 mg/Kg dry Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Toluene ND 0.0021 mg/Kg dry 1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2,3-Trichlorobenzene ND 0.0021 mg/Kg dry 1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2,4-Trichlorobenzene ND 0.0021 mg/Kg dry 1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,3,5-Trichlorobenzene ND 0.0021 mg/Kg dry 1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1,1-Trichloroethane ND 0.0021 mg/Kg dry 1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1,2-Trichloroethane ND 0.0021 mg/Kg dry Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Trichloroethylene ND 0.0021 mg/Kg dry Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Trichlorofluoromethane (Freon 11) ND 0.011 mg/Kg dry 1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2,3-Trichloropropane ND 0.0021 mg/Kg dry 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane ND 0.011 mg/Kg dry (Freon 113)	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
(Freon 113)	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,2,4-Trimethylbenzene ND 0.0021 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
1,3,5-Trimethylbenzene ND 0.0021 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Vinyl Chloride ND 0.011 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
m+p Xylene ND 0.0043 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
o-Xylene ND 0.0021 mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 19:18	MFF
Surrogates % Recovery Recovery Limits		Flag/Qual				

7/2/21 19:18

7/2/21 19:18

7/2/21 19:18

113

101

95.3

70-130

70-130

70-130



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Benzo(a)anthracene	0.23	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Benzo(a)pyrene	0.21	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Benzo(b)fluoranthene	0.28	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Chrysene	0.22	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Fluoranthene	0.47	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Phenanthrene	0.32	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Pyrene	0.44	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/9/21 0:04	BGL
Surrogates		% Recovery	Recovery Limits	,	Flag/Qual				
Nitrobenzene-d5		72.1	30-130					7/9/21 0:04	
2-Fluorobiphenyl		71.3	30-130					7/9/21 0:04	
p-Terphenyl-d14		104	30-130					7/9/21 0:04	



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		- 0-)							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:16	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		64.2	30-150					7/10/21 23:16	
Decachlorobiphenyl [2]		56.1	30-150					7/10/21 23:16	
Tetrachloro-m-xylene [1]		81.2	30-150					7/10/21 23:16	
Tetrachloro-m-xylene [2]		75.6	30-150					7/10/21 23:16	



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Oual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	59	8.8	mg/Kg dry	1	Z-01a	SW-846 8015C	7/2/21	7/8/21 1:41	RDD
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl		61.2	40-140					7/8/21 1:41	



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

Metals Analyses (Total)

			-						
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	МЈН
	ND	3.4	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	0.18	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	ND	0.34	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	16	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	15	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	25	0.50	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	0.044	0.029	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:02	CJV
	4.7	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	ND	3.4	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	ND	0.34	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	89	0.67	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:09	MJH
	Analyte	ND ND 0.18 ND 16 15 25 0.044 4.7 ND ND ND	ND 1.7 ND 3.4 0.18 0.17 ND 0.34 16 0.67 15 0.67 25 0.50 0.044 0.029 4.7 0.67 ND 3.4 ND 0.34 ND 0.34	ND 1.7 mg/Kg dry ND 3.4 mg/Kg dry 0.18 0.17 mg/Kg dry ND 0.34 mg/Kg dry 16 0.67 mg/Kg dry 15 0.67 mg/Kg dry 25 0.50 mg/Kg dry 0.044 0.029 mg/Kg dry 4.7 0.67 mg/Kg dry ND 3.4 mg/Kg dry ND 0.34 mg/Kg dry ND 0.34 mg/Kg dry ND 0.34 mg/Kg dry	ND 1.7 mg/Kg dry 1 ND 3.4 mg/Kg dry 1 0.18 0.17 mg/Kg dry 1 ND 0.34 mg/Kg dry 1 16 0.67 mg/Kg dry 1 15 0.67 mg/Kg dry 1 25 0.50 mg/Kg dry 1 0.044 0.029 mg/Kg dry 1 4.7 0.67 mg/Kg dry 1 ND 3.4 mg/Kg dry 1 ND 0.34 mg/Kg dry 1	ND 1.7 mg/Kg dry 1 ND 3.4 mg/Kg dry 1 0.18 0.17 mg/Kg dry 1 ND 0.34 mg/Kg dry 1 16 0.67 mg/Kg dry 1 15 0.67 mg/Kg dry 1 25 0.50 mg/Kg dry 1 0.044 0.029 mg/Kg dry 1 4.7 0.67 mg/Kg dry 1 ND 3.4 mg/Kg dry 1 ND 0.34 mg/Kg dry 1	ND 1.7 mg/Kg dry 1 SW-846 6010D ND 3.4 mg/Kg dry 1 SW-846 6010D 0.18 0.17 mg/Kg dry 1 SW-846 6010D ND 0.34 mg/Kg dry 1 SW-846 6010D 16 0.67 mg/Kg dry 1 SW-846 6010D 15 0.67 mg/Kg dry 1 SW-846 6010D 25 0.50 mg/Kg dry 1 SW-846 6010D 0.044 0.029 mg/Kg dry 1 SW-846 6010D 0.044 0.029 mg/Kg dry 1 SW-846 6010D ND 3.4 mg/Kg dry 1 SW-846 6010D ND 0.34 mg/Kg dry 1 SW-846 6010D	Analyte Results RL Units Dilution Flag/Qual Method Prepared ND 1.7 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 3.4 mg/Kg dry 1 SW-846 6010D 7/2/21 0.18 0.17 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.34 mg/Kg dry 1 SW-846 6010D 7/2/21 16 0.67 mg/Kg dry 1 SW-846 6010D 7/2/21 15 0.67 mg/Kg dry 1 SW-846 6010D 7/2/21 25 0.50 mg/Kg dry 1 SW-846 6010D 7/2/21 4.7 0.67 mg/Kg dry 1 SW-846 7471B 7/2/21 ND 3.4 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.34 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.7 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.7 <	Analyte Results RL Units Dilution Flag/Qual Method Prepared Analyzed ND 1.7 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 ND 3.4 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 ND 0.18 0.17 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 ND 0.34 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 16 0.67 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 25 0.50 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 4.7 0.67 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 ND 3.4 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 ND 3.4 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 19:09 ND 0.34 mg



Project Location: 719 River St, Woonsocket, RI Sample Description: ME-9 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 08:25

Sample ID: 21G0035-15
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		94.3		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Acrylonitrile	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Benzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Bromobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Bromochloromethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Bromodichloromethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Bromoform	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Bromomethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
2-Butanone (MEK)	ND	0.093	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
tert-Butyl Alcohol (TBA)	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
n-Butylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
sec-Butylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
tert-Butylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Carbon Disulfide	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Carbon Tetrachloride	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Chlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Chlorodibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Chloroethane	ND	0.046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Chloroform	ND	0.0093	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Chloromethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
2-Chlorotoluene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
4-Chlorotoluene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Dibromomethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2-Dichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,3-Dichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,4-Dichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
trans-1,4-Dichloro-2-butene	ND	0.0093	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1-Dichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2-Dichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1-Dichloroethylene	ND	0.0093	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
cis-1,2-Dichloroethylene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
trans-1,2-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2-Dichloropropane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,3-Dichloropropane	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
2,2-Dichloropropane	ND ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1-Dichloropropene		0.0046						7/2/21 13:34	
• •	ND		mg/Kg dry	1		SW-846 8260C-D	7/2/21		MFF
cis-1,3-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
trans-1,3-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Diethyl Ether	ND	0.046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,4-Dioxane	ND	0.23	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Ethylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Hexachlorobutadiene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
2-Hexanone (MBK)	ND	0.046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Isopropylbenzene (Cumene)	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Methyl Acetate	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0093	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Methyl Cyclohexane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Methylene Chloride	ND	0.046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Naphthalene	ND	0.0093	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
n-Propylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Styrene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Tetrachloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Tetrahydrofuran	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Toluene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2,3-Trichlorobenzene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2,4-Trichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,3,5-Trichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1,1-Trichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1,2-Trichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Trichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.023	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2,3-Trichloropropane	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,2,4-Trimethylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
1,3,5-Trimethylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Vinyl Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
m+p Xylene	ND	0.0093	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
o-Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 13:34	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		105	70-130					7/2/21 13:34	

70-130

70-130

108

102

7/2/21 13:34

7/2/21 13:34



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Chrysene	0.38	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Fluoranthene	0.21	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Phenanthrene	0.68	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 2:36	BGL
Surrogates		% Recovery	Recovery Limits	1	Flag/Qual				
Nitrobenzene-d5		70.7	30-130					7/8/21 2:36	
2-Fluorobiphenyl		74.8	30-130					7/8/21 2:36	
p-Terphenyl-d14		117	30-130					7/8/21 2:36	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		·							
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:33	JMB
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		76.0	30-150					7/10/21 23:33	
Decachlorobiphenyl [2]		67.3	30-150					7/10/21 23:33	
Tetrachloro-m-xylene [1]		73.4	30-150					7/10/21 23:33	
Tetrachloro-m-xylene [2]		67.4	30-150					7/10/21 23:33	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	580	200	mg/Kg dry	20	Z-01b	SW-846 8015C	7/2/21	7/8/21 19:37	RMW
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobinhenyl		72.8	40-140		S-01			7/8/21 19:37	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

Metals Analyses (Total)

alyte Resul	lts RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
ND	1.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	МЈН
8.1	3.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	МЈН
0.40	0.19	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
ND	0.39	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
10	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
14	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
30	0.58	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
0.10	0.034	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:03	CJV
5.8	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
ND	3.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
ND	0.39	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
ND	1.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
19	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:00	MJH
	ND 8.1 0.40 ND 10 14 30 0.10 5.8 ND ND ND ND ND	ND 1.9 8.1 3.9 0.40 0.19 ND 0.39 10 0.78 14 0.78 30 0.58 0.10 0.034 5.8 0.78 ND 3.9 ND 0.39 ND 1.9	ND 1.9 mg/Kg dry 8.1 3.9 mg/Kg dry 0.40 0.19 mg/Kg dry ND 0.39 mg/Kg dry 10 0.78 mg/Kg dry 14 0.78 mg/Kg dry 30 0.58 mg/Kg dry 0.10 0.034 mg/Kg dry 5.8 0.78 mg/Kg dry ND 3.9 mg/Kg dry ND 0.39 mg/Kg dry ND 0.39 mg/Kg dry ND 0.39 mg/Kg dry	ND 1.9 mg/Kg dry 1 8.1 3.9 mg/Kg dry 1 0.40 0.19 mg/Kg dry 1 ND 0.39 mg/Kg dry 1 10 0.78 mg/Kg dry 1 14 0.78 mg/Kg dry 1 30 0.58 mg/Kg dry 1 0.10 0.034 mg/Kg dry 1 5.8 0.78 mg/Kg dry 1 ND 3.9 mg/Kg dry 1 ND 0.39 mg/Kg dry 1 ND 0.39 mg/Kg dry 1 ND 0.39 mg/Kg dry 1 ND 1.9 mg/Kg dry 1	ND 1.9 mg/Kg dry 1 8.1 3.9 mg/Kg dry 1 0.40 0.19 mg/Kg dry 1 ND 0.39 mg/Kg dry 1 10 0.78 mg/Kg dry 1 14 0.78 mg/Kg dry 1 30 0.58 mg/Kg dry 1 0.10 0.034 mg/Kg dry 1 5.8 0.78 mg/Kg dry 1 ND 3.9 mg/Kg dry 1 ND 0.39 mg/Kg dry 1 ND 1.9 mg/Kg dry 1	ND 1.9 mg/Kg dry 1 SW-846 6010D 8.1 3.9 mg/Kg dry 1 SW-846 6010D 0.40 0.19 mg/Kg dry 1 SW-846 6010D ND 0.39 mg/Kg dry 1 SW-846 6010D 10 0.78 mg/Kg dry 1 SW-846 6010D 14 0.78 mg/Kg dry 1 SW-846 6010D 30 0.58 mg/Kg dry 1 SW-846 6010D 0.10 0.034 mg/Kg dry 1 SW-846 6010D 0.10 0.034 mg/Kg dry 1 SW-846 6010D ND 3.9 mg/Kg dry 1 SW-846 6010D ND 0.39 mg/Kg dry 1 SW-846 6010D	Alyte Results RL Units Dilution Flag/Qual Method Prepared ND 1.9 mg/Kg dry 1 SW-846 6010D 7/2/21 8.1 3.9 mg/Kg dry 1 SW-846 6010D 7/2/21 0.40 0.19 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 10 0.78 mg/Kg dry 1 SW-846 6010D 7/2/21 14 0.78 mg/Kg dry 1 SW-846 6010D 7/2/21 30 0.58 mg/Kg dry 1 SW-846 6010D 7/2/21 0.10 0.034 mg/Kg dry 1 SW-846 7471B 7/2/21 ND 3.9 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.9 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.9	ND 1.9 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 8.1 3.9 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 0.40 0.19 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 10 0.78 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 14 0.78 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 14 0.78 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 30 0.58 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 30 0.58 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 0.10 0.034 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 3.9 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 3.9 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00 ND 0.39 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:00



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-10 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:22

Sample ID: 21G0035-16
Sample Matrix: Soil

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		83.6		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Acrylonitrile	ND	0.0053	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Bromomethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
tert-Butyl Alcohol (TBA)	ND	0.089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Chlorodibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Chloromethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
trans-1,4-Dichloro-2-butene	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,3-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
cis-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
trans-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
trans-1,5-Dichioropropene									



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,4-Dioxane	ND	0.089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Methyl Acetate	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Methyl Cyclohexane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Tetrahydrofuran	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,3,5-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Vinyl Chloride	ND	0.0089	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:01	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		106	70-130		-			7/2/21 14:01	
Toluene-d8		107	70-130					7/2/21 14:01	

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70-130

7/2/21 14:01



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:17	BGL
Surrogates		% Recovery	Recovery Limits	S	Flag/Qual				
Nitrobenzene-d5		72.6	30-130					7/8/21 16:17	
2-Fluorobiphenyl		72.8	30-130					7/8/21 16:17	
p-Terphenyl-d14		97.3	30-130					7/8/21 16:17	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/7/21	7/10/21 23:51	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		77.8	30-150					7/10/21 23:51	
Decachlorobiphenyl [2]		68.3	30-150					7/10/21 23:51	
Tetrachloro-m-xylene [1]		88.6	30-150					7/10/21 23:51	
Tetrachloro-m-xylene [2]		81.7	30-150					7/10/21 23:51	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	8.5	mg/Kg dry	1	Z-01	SW-846 8015C	7/2/21	7/8/21 0:59	RDD
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		68.6	40-140					7/8/21 0:59	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

Metals Analyses (Total)

te Results	s RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
ND	1.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	МЈН
ND	3.3	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
0.17	0.16	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
ND	0.33	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
3.4	0.65	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
4.6	0.65	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
4.5	0.49	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
ND	0.028	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:10	CJV
3.1	0.65	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
ND	3.3	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
ND	0.33	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
ND	1.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
21	0.65	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:06	MJH
	ND ND 0.17 ND 3.4 4.6 4.5 ND 3.1 ND ND	ND 1.6 ND 3.3 0.17 0.16 ND 0.33 3.4 0.65 4.6 0.65 4.5 0.49 ND 0.028 3.1 0.65 ND 3.3 ND 0.33 ND 0.33	ND 1.6 mg/Kg dry ND 3.3 mg/Kg dry 0.17 0.16 mg/Kg dry ND 0.33 mg/Kg dry ND 0.33 mg/Kg dry 4.6 0.65 mg/Kg dry 4.5 0.49 mg/Kg dry ND 0.028 mg/Kg dry ND 0.028 mg/Kg dry ND 3.3 mg/Kg dry ND 3.3 mg/Kg dry ND 0.33 mg/Kg dry ND 0.33 mg/Kg dry ND 0.33 mg/Kg dry ND 0.33 mg/Kg dry	ND 1.6 mg/Kg dry 1 ND 3.3 mg/Kg dry 1 0.17 0.16 mg/Kg dry 1 ND 0.33 mg/Kg dry 1 3.4 0.65 mg/Kg dry 1 4.6 0.65 mg/Kg dry 1 4.5 0.49 mg/Kg dry 1 ND 0.028 mg/Kg dry 1 3.1 0.65 mg/Kg dry 1 ND 3.3 mg/Kg dry 1 ND 0.33 mg/Kg dry 1 ND 1.6 mg/Kg dry 1	ND 1.6 mg/Kg dry 1 ND 3.3 mg/Kg dry 1 0.17 0.16 mg/Kg dry 1 ND 0.33 mg/Kg dry 1 3.4 0.65 mg/Kg dry 1 4.6 0.65 mg/Kg dry 1 ND 0.028 mg/Kg dry 1 ND 0.028 mg/Kg dry 1 ND 0.028 mg/Kg dry 1 ND 3.3 mg/Kg dry 1 ND 3.3 mg/Kg dry 1 ND 0.33 mg/Kg dry 1	ND 1.6 mg/Kg dry 1 SW-846 6010D ND 3.3 mg/Kg dry 1 SW-846 6010D 0.17 0.16 mg/Kg dry 1 SW-846 6010D ND 0.33 mg/Kg dry 1 SW-846 6010D 3.4 0.65 mg/Kg dry 1 SW-846 6010D 4.6 0.65 mg/Kg dry 1 SW-846 6010D 4.5 0.49 mg/Kg dry 1 SW-846 6010D ND 0.028 mg/Kg dry 1 SW-846 6010D ND 0.028 mg/Kg dry 1 SW-846 6010D ND 0.033 mg/Kg dry 1 SW-846 6010D ND 3.3 mg/Kg dry 1 SW-846 6010D ND 3.3 mg/Kg dry 1 SW-846 6010D ND 0.33 mg/Kg dry 1 SW-846 6010D	Results RL Units Dilution Flag/Qual Method Prepared ND 1.6 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 3.3 mg/Kg dry 1 SW-846 6010D 7/2/21 0.17 0.16 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.33 mg/Kg dry 1 SW-846 6010D 7/2/21 3.4 0.65 mg/Kg dry 1 SW-846 6010D 7/2/21 4.6 0.65 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.028 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 3.3 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 3.3 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 0.33 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.6 mg/Kg dry 1 SW-846 6010D 7/2/21 ND 1.6 mg/Kg dry	Results RL Units Dilution Flag/Qual Method Prepared Analyzed ND 1.6 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 ND 3.3 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 0.17 0.16 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 ND 0.33 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 4.6 0.65 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 4.5 0.49 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 ND 0.028 mg/Kg dry 1 SW-846 7471B 7/2/21 7/6/21 21:06 ND 3.3 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 ND 3.3 mg/Kg dry 1 SW-846 6010D 7/2/21 7/6/21 21:06 ND 0.33 mg/Kg dry 1 <td< td=""></td<>



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 10:53

Sample ID: 21G0035-17
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		97.3		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Acrylonitrile	ND	0.0059	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Bromomethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
tert-Butyl Alcohol (TBA)	ND	0.099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Carbon Disulfide	ND	0.0059	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Chlorodibromomethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Chloromethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1	V-03	SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,3-Dichloropropane	ND ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
2,2-Dichloropropane	ND ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1-Dichloropropene		0.0020							
* *	ND		mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
cis-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
trans-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyta	Dogulta	DI	Unito	Dilution	Flag/Ougl	Mathad	Date	Date/Time	Amalwat
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
Diisopropyl Ether (DIPE) 1,4-Dioxane	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
•	ND	0.099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Methyl Acetate	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Tetrahydrofuran	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Vinyl Chloride	ND	0.0099	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:28	MFF
Surrogates		% Recovery	Recovery Limits	i	Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					7/2/21 14:28	
Toluene-d8		106	70-130					7/2/21 14:28	

113

70-130

7/2/21 14:28



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 16:45	BGL
Surrogates		% Recovery	Recovery Limits	1	Flag/Qual				
Nitrobenzene-d5		44.2	30-130					7/8/21 16:45	
2-Fluorobiphenyl		44.6	30-130					7/8/21 16:45	
p-Terphenyl-d14		65.8	30-130					7/8/21 16:45	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		- 0-)							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:08	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		72.9	30-150					7/11/21 0:08	
Decachlorobiphenyl [2]		64.5	30-150					7/11/21 0:08	
Tetrachloro-m-xylene [1]		79.3	30-150					7/11/21 0:08	
Tetrachloro-m-xylene [2]		73.3	30-150					7/11/21 0:08	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
TPH (C9-C36)	21	9.2	mg/Kg dry	1	Z-01	SW-846 8015C	7/2/21	7/8/21 1:20	RDD
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl		56.7	40-140					7/8/21 1:20	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

Metals Analyses (Total)

				•	, ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1	MS-07	SW-846 6010D	7/2/21	7/6/21 20:39	МЈН
Arsenic		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Beryllium		0.24	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Cadmium		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Chromium		4.7	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Copper		3.7	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Lead		1.8	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Mercury		ND	0.031	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:11	CJV
Nickel		3.1	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Selenium		ND	3.6	mg/Kg dry	1	MS-07	SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Silver		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH
Zinc		19	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 20:39	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-11 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 11:01

Sample ID: 21G0035-18
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		90.6		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,3-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
2,2-Dichloropropane	ND ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1-Dichloropropene		0.0023							
* *	ND ND		mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Methyl Acetate	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Methyl Cyclohexane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:56	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.8	70-130		7/2/21 14:56
Toluene-d8	105	70-130		7/2/21 14:56
4-Bromofluorobenzene	107	70-130		7/2/21 14:56



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Benzo(a)anthracene	0.52	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Benzo(a)pyrene	0.45	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Benzo(b)fluoranthene	0.60	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Benzo(g,h,i)perylene	0.27	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Benzo(k)fluoranthene	0.25	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Chrysene	0.50	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Indeno(1,2,3-cd)pyrene	0.27	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Phenanthrene	0.62	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Pyrene	0.92	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:21	BGL
Surrogates		% Recovery	Recovery Limits	i	Flag/Qual				
Nitrobenzene-d5		62.7	30-130					7/8/21 15:21	
2-Fluorobiphenyl		67.5	30-130					7/8/21 15:21	
p-Terphenyl-d14		90.2	30-130					7/8/21 15:21	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		- 0-)								
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst	
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4	-	SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:26	JMB	
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual					
Decachlorobiphenyl [1]		83.7	30-150					7/11/21 0:26		
Decachlorobiphenyl [2]		73.8	30-150					7/11/21 0:26		
Tetrachloro-m-xylene [1]		91.5	30-150					7/11/21 0:26		
Tetrachloro-m-xylene [2]		83.6	30-150					7/11/21 0:26		



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	210	18	mg/Kg dry	2	O-26	SW-846 8015C	7/2/21	7/8/21 3:05	RDD
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		70.8	40-140					7/8/21 3:05	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Metals Analyses (Total)

			17100013 1 11101	(10111)					
Ana	lyte Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1	0 -	SW-846 6010D	7/2/21	7/6/21 21:13	МЈН
Arsenic	14	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	МЈН
Beryllium	0.44	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	МЈН
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Chromium	22	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Copper	16	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Lead	57	0.52	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Mercury	0.052	0.030	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:11	CJV
Nickel	7.4	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH
Zinc	37	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:13	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:20

Sample ID: 21G0035-19
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

							Date	Date/Time	
	Analyte	Results RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		94.6	% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Acrylonitrile	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Bromomethane	ND	0.0084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
tert-Butyl Alcohol (TBA)	ND	0.084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Chlorodibromomethane	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Chloromethane	ND	0.0084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2-Dibromoethane (EDB)	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
trans-1,4-Dichloro-2-butene	ND	0.0034	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,3-Dichloropropane	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
cis-1,3-Dichloropropene	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
trans-1,3-Dichloropropene	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
		0.017							



SB-12 Project Location: 719 River St, Woonsocket, RI Sample Description: Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20 Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

		Vo	latile Organic Com	pounds by G	C/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,4-Dioxane	ND	0.084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Methyl Acetate	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Methyl Cyclohexane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.00084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Tetrahydrofuran	ND	0.0084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,3,5-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0084	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Vinyl Chloride	ND	0.0084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:23	MFF
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					7/2/21 15:23	
Toluene-d8 4 Bromofluorobenzene		110	70-130 70-130					7/2/21 15:23	
4-Bromofluorobenzene		109	70-130					7/2/21 15:23	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Benzo(b)fluoranthene	0.21	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 15:49	BGL
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
Nitrobenzene-d5		72.5	30-130					7/8/21 15:49	
2-Fluorobiphenyl		71.7	30-130					7/8/21 15:49	
p-Terphenyl-d14		88.6	30-130					7/8/21 15:49	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

,									
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/7/21	7/11/21 0:43	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		79.5	30-150					7/11/21 0:43	
Decachlorobiphenyl [2]		71.2	30-150					7/11/21 0:43	
Tetrachloro-m-xylene [1]		85.4	30-150					7/11/21 0:43	
Tetrachloro-m-xylene [2]		78.3	30-150					7/11/21 0:43	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	160	18	mg/Kg dry	2	O-25	SW-846 8015C	7/2/21	7/8/21 2:44	RDD
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
2-Fluorobinhenyl		69.6	40-140					7/8/21 2:44	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20
Sample Matrix: Soil

Metals Analyses (Total)

			Wietals Allai	ses (Total)					
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Arsenic	7.4	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Beryllium	0.39	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Chromium	15	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Copper	12	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Lead	20	0.52	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 10:56	CJV
Nickel	6.9	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH
Zinc	28	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:20	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-12 Work Order: 21G0035

Date Received: 7/1/2021

Field Sample #: 1603210629-1 Sampled: 6/29/2021 12:30

Sample ID: 21G0035-20
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		94.2		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Sample Extraction Data

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G0035-01 [1603210628-01]	B285260	07/02/21
21G0035-02 [1603210628-02]	B285260	07/02/21
21G0035-03 [1603210628-03]	B285260	07/02/21
21G0035-04 [1603210628-04]	B285260	07/02/21
21G0035-05 [1603210628-05]	B285260	07/02/21
21G0035-06 [1603210628-06]	B285260	07/02/21
21G0035-07 [1603210628-07]	B285260	07/02/21
21G0035-08 [1603210628-08]	B285260	07/02/21
21G0035-09 [1603210628-09]	B285260	07/02/21
21G0035-10 [1603210628-10]	B285260	07/02/21
21G0035-11 [1603210628-11]	B285260	07/02/21
21G0035-12 [1603210628-12]	B285260	07/02/21
21G0035-14 [1603210629-1]	B285260	07/02/21
21G0035-15 [1603210629-1]	B285260	07/02/21
21G0035-16 [1603210629-1]	B285260	07/02/21
21G0035-17 [1603210629-1]	B285260	07/02/21
21G0035-18 [1603210629-1]	B285260	07/02/21
21G0035-19 [1603210629-1]	B285260	07/02/21
21G0035-20 [1603210629-1]	B285260	07/02/21

Prep Method: SW-846 3050B Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0035-16 [1603210629-1]	B285206	1.54	50.0	07/02/21
21G0035-17 [1603210629-1]	B285206	1.57	50.0	07/02/21
21G0035-18 [1603210629-1]	B285206	1.54	50.0	07/02/21
21G0035-19 [1603210629-1]	B285206	1.51	50.0	07/02/21
21G0035-20 [1603210629-1]	B285206	1.52	50.0	07/02/21

Prep Method: SW-846 3050B Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0035-01 [1603210628-01]	B285207	1.55	50.0	07/02/21	
21G0035-02 [1603210628-02]	B285207	1.56	50.0	07/02/21	
21G0035-03 [1603210628-03]	B285207	1.51	50.0	07/02/21	
21G0035-04 [1603210628-04]	B285207	1.51	50.0	07/02/21	
21G0035-05 [1603210628-05]	B285207	1.53	50.0	07/02/21	
21G0035-06 [1603210628-06]	B285207	1.54	50.0	07/02/21	
21G0035-07 [1603210628-07]	B285207	1.57	50.0	07/02/21	
21G0035-08 [1603210628-08]	B285207	1.54	50.0	07/02/21	
21G0035-09 [1603210628-09]	B285207	1.52	50.0	07/02/21	
21G0035-10 [1603210628-10]	B285207	1.52	50.0	07/02/21	
21G0035-11 [1603210628-11]	B285207	1.52	50.0	07/02/21	
21G0035-12 [1603210628-12]	B285207	1.57	50.0	07/02/21	
21G0035-14 [1603210629-1]	B285207	1.53	50.0	07/02/21	
21G0035-15 [1603210629-1]	B285207	1.58	50.0	07/02/21	

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0035-19 [1603210629-1]	B285230	0.532	50.0	07/02/21



Sample Extraction Data

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0035-20 [1603210629-1]	B285230	0.557	50.0	07/02/21

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0035-01 [1603210628-01]	B285231	0.505	50.0	07/02/21	
21G0035-02 [1603210628-02]	B285231	0.523	50.0	07/02/21	
21G0035-03 [1603210628-03]	B285231	0.560	50.0	07/02/21	
21G0035-04 [1603210628-04]	B285231	0.530	50.0	07/02/21	
21G0035-05 [1603210628-05]	B285231	0.507	50.0	07/02/21	
21G0035-06 [1603210628-06]	B285231	0.594	50.0	07/02/21	
21G0035-07 [1603210628-07]	B285231	0.569	50.0	07/02/21	
21G0035-08 [1603210628-08]	B285231	0.566	50.0	07/02/21	
21G0035-09 [1603210628-09]	B285231	0.576	50.0	07/02/21	
21G0035-10 [1603210628-10]	B285231	0.513	50.0	07/02/21	
21G0035-11 [1603210628-11]	B285231	0.588	50.0	07/02/21	
21G0035-12 [1603210628-12]	B285231	0.515	50.0	07/02/21	
21G0035-14 [1603210629-1]	B285231	0.538	50.0	07/02/21	
21G0035-15 [1603210629-1]	B285231	0.556	50.0	07/02/21	
21G0035-16 [1603210629-1]	B285231	0.536	50.0	07/02/21	
21G0035-17 [1603210629-1]	B285231	0.542	50.0	07/02/21	
1G0035-18 [1603210629-1]	B285231	0.542	50.0	07/02/21	

Prep Method: SW-846 3546 Analytical Method: SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0035-01 [1603210628-01]	B285208	30.3	1.00	07/02/21	
21G0035-02 [1603210628-02]	B285208	30.2	1.00	07/02/21	
21G0035-03 [1603210628-03]	B285208	30.3	1.00	07/02/21	
21G0035-04 [1603210628-04]	B285208	30.1	1.00	07/02/21	
21G0035-05 [1603210628-05]	B285208	30.2	1.00	07/02/21	
21G0035-06 [1603210628-06]	B285208	30.2	1.00	07/02/21	
21G0035-07 [1603210628-07]	B285208	30.0	1.00	07/02/21	
21G0035-08 [1603210628-08]	B285208	30.2	1.00	07/02/21	
21G0035-09 [1603210628-09]	B285208	30.2	1.00	07/02/21	
21G0035-10 [1603210628-10]	B285208	30.1	1.00	07/02/21	
21G0035-11 [1603210628-11]	B285208	30.1	1.00	07/02/21	
21G0035-12 [1603210628-12]	B285208	30.3	1.00	07/02/21	
21G0035-14 [1603210629-1]	B285208	30.5	1.00	07/02/21	
21G0035-15 [1603210629-1]	B285208	30.2	1.00	07/02/21	
21G0035-16 [1603210629-1]	B285208	30.2	1.00	07/02/21	
21G0035-17 [1603210629-1]	B285208	30.4	1.00	07/02/21	
21G0035-18 [1603210629-1]	B285208	30.1	1.00	07/02/21	
21G0035-19 [1603210629-1]	B285208	30.0	1.00	07/02/21	
21G0035-20 [1603210629-1]	B285208	30.3	1.00	07/02/21	

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0035-01 [1603210628-01]	B285421	10.0	10.0	07/07/21
21G0035-02 [1603210628-02]	B285421	10.0	10.0	07/07/21



Sample Extraction Data

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0035-03 [1603210628-03]	B285421	10.0	10.0	07/07/21	
21G0035-04 [1603210628-04]	B285421	10.0	10.0	07/07/21	
21G0035-05 [1603210628-05]	B285421	10.0	10.0	07/07/21	
21G0035-06 [1603210628-06]	B285421	10.0	10.0	07/07/21	
21G0035-07 [1603210628-07]	B285421	10.0	10.0	07/07/21	
21G0035-08 [1603210628-08]	B285421	10.0	10.0	07/07/21	
21G0035-09 [1603210628-09]	B285421	10.0	10.0	07/07/21	
21G0035-10 [1603210628-10]	B285421	10.0	10.0	07/07/21	
21G0035-11 [1603210628-11]	B285421	10.0	10.0	07/07/21	
21G0035-12 [1603210628-12]	B285421	10.0	10.0	07/07/21	
21G0035-14 [1603210629-1]	B285421	10.0	10.0	07/07/21	
21G0035-15 [1603210629-1]	B285421	10.0	10.0	07/07/21	
21G0035-16 [1603210629-1]	B285421	10.0	10.0	07/07/21	
21G0035-17 [1603210629-1]	B285421	10.0	10.0	07/07/21	
21G0035-18 [1603210629-1]	B285421	10.0	10.0	07/07/21	
21G0035-19 [1603210629-1]	B285421	10.0	10.0	07/07/21	
21G0035-20 [1603210629-1]	B285421	10.0	10.0	07/07/21	

Prep Method: SW-846 5035/5030B Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
21G0035-08 [1603210628-08]	B285216	13.4	10.8	1	50	07/02/21
21G0035-11 [1603210628-11]	B285216	12.2	10.7	1	50	07/02/21
21G0035-12 [1603210628-12]	B285216	10.6	11.0	1	50	07/02/21

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0035-01 [1603210628-01]	B285222	5.88	10.0	07/02/21	
21G0035-02 [1603210628-02]	B285222	6.75	10.0	07/02/21	
21G0035-03 [1603210628-03]	B285222	4.90	10.0	07/02/21	
21G0035-04 [1603210628-04]	B285222	4.82	10.0	07/02/21	
21G0035-05 [1603210628-05]	B285222	5.41	10.0	07/02/21	
21G0035-06 [1603210628-06]	B285222	5.57	10.0	07/02/21	
21G0035-07 [1603210628-07]	B285222	4.25	10.0	07/02/21	
21G0035-09 [1603210628-09]	B285222	5.67	10.0	07/02/21	
21G0035-10 [1603210628-10]	B285222	2.80	10.0	07/02/21	
21G0035-13 [1603210628-13]	B285222	5.00	10.0	07/02/21	
21G0035-14 [1603210629-1]	B285222	4.36	10.0	07/02/21	
21G0035-15 [1603210629-1]	B285222	4.95	10.0	07/02/21	

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0035-16 [1603210629-1]	B285252	2.58	10.0	07/02/21
21G0035-17 [1603210629-1]	B285252	5.79	10.0	07/02/21
21G0035-18 [1603210629-1]	B285252	5.58	10.0	07/02/21
21G0035-19 [1603210629-1]	B285252	4.67	10.0	07/02/21
21G0035-20 [1603210629-1]	B285252	6.29	10.0	07/02/21



Sample Extraction Data

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0035-01 [1603210628-01]	B285209	30.3	1.00	07/02/21
21G0035-01RE1 [1603210628-01]	B285209	30.3	1.00	07/02/21
21G0035-01RE2 [1603210628-01]	B285209	30.3	1.00	07/02/21
21G0035-02 [1603210628-02]	B285209	30.2	1.00	07/02/21
21G0035-03 [1603210628-03]	B285209	30.3	1.00	07/02/21
21G0035-04 [1603210628-04]	B285209	30.1	1.00	07/02/21
21G0035-05 [1603210628-05]	B285209	30.2	1.00	07/02/21
21G0035-06 [1603210628-06]	B285209	30.2	1.00	07/02/21
21G0035-07 [1603210628-07]	B285209	30.0	1.00	07/02/21
21G0035-08 [1603210628-08]	B285209	30.2	1.00	07/02/21
21G0035-09 [1603210628-09]	B285209	30.2	1.00	07/02/21
21G0035-10 [1603210628-10]	B285209	30.1	1.00	07/02/21
21G0035-11 [1603210628-11]	B285209	30.1	1.00	07/02/21
21G0035-12 [1603210628-12]	B285209	30.3	1.00	07/02/21
21G0035-14 [1603210629-1]	B285209	30.5	1.00	07/02/21
21G0035-14RE1 [1603210629-1]	B285209	30.5	1.00	07/02/21
21G0035-15 [1603210629-1]	B285209	30.2	1.00	07/02/21
21G0035-16 [1603210629-1]	B285209	30.2	1.00	07/02/21
21G0035-17 [1603210629-1]	B285209	30.4	1.00	07/02/21
21G0035-18 [1603210629-1]	B285209	30.1	1.00	07/02/21
21G0035-19 [1603210629-1]	B285209	30.0	1.00	07/02/21
21G0035-20 [1603210629-1]	B285209	30.3	1.00	07/02/21



QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285216 - SW-846 5035/5030B										
Blank (B285216-BLK1)]	Prepared &	Analyzed: 07	7/02/21				
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
ert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							L-04, V-0
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-34
-Butanone (MEK)	ND	1.0	mg/Kg wet							
ert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							
-Butylbenzene	ND	0.050	mg/Kg wet							
ec-Butylbenzene	ND	0.050	mg/Kg wet							
ert-Butylbenzene	ND	0.050	mg/Kg wet							
ert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
arbon Disulfide	ND	0.25	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							R-05
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
-Chlorotoluene	ND	0.050	mg/Kg wet							
-Chlorotoluene	ND	0.050	mg/Kg wet							
,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
.4-Dichlorobenzene	ND	0.050	mg/Kg wet							
rans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND ND	0.10	mg/Kg wet							
,1-Dichloroethane		0.050								
,2-Dichloroethane	ND ND	0.050	mg/Kg wet							
,1-Dichloroethylene	ND ND	0.050	mg/Kg wet							
is-1,2-Dichloroethylene		0.050	mg/Kg wet							
rans-1,2-Dichloroethylene	ND ND	0.050	mg/Kg wet							
Dichlorofluoromethane (Freon 21)	ND ND	0.050	mg/Kg wet							
,2-Dichloropropane	ND	0.050	mg/Kg wet							
,3-Dichloropropane	ND ND	0.030	mg/Kg wet							
,2-Dichloropropane	ND ND	0.023	mg/Kg wet							
,1-Dichloropropane	ND ND	0.030	mg/Kg wet							
is-1,3-Dichloropropene	ND	0.10	mg/Kg wet							
	ND									
rans-1,3-Dichloropropene Diethyl Ether	ND	0.025	mg/Kg wet							
•	ND	0.10	mg/Kg wet							
offluorochloromethane (Freon 22)	ND	0.050	mg/Kg wet							
hisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
4-Dioxane	ND	2.5	mg/Kg wet							
thylbenzene	ND	0.050	mg/Kg wet							
exachlorobutadiene	ND	0.050	mg/Kg wet							
-Hexanone (MBK)	ND	0.50	mg/Kg wet							
opropylhonzona (Cumona)	3.75	0.050	man or/IV or versat							

ND

Isopropylbenzene (Cumene)



QUALITY CONTROL

	ъ.	Reporting	TT 1:	Spike	Source	0/850	%REC	D	RPD	27
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285216 - SW-846 5035/5030B										
Blank (B285216-BLK1)		0.050		Prepared & A	Analyzed: 07	/02/21				
p-Isopropyltoluene (p-Cymene) Methyl Acetate	ND	0.050 0.50	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet mg/Kg wet							
Methyl Cyclohexane	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.030	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND ND	0.50	mg/Kg wet							
Naphthalene	ND ND	0.10	mg/Kg wet							
n-Propylbenzene	ND ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0222		mg/Kg wet	0.0250		88.6	70-130			
Surrogate: Toluene-d8	0.0241		mg/Kg wet	0.0250		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0242		mg/Kg wet	0.0250		96.8	70-130			
LCS (B285216-BS1)				Prepared & A	Analyzed: 07	/02/21				
Acetone	0.237	0.057	mg/Kg wet	0.227		105	70-160			
Acrylonitrile	0.0133	0.0057	mg/Kg wet	0.0113		117	70-130			
tert-Amyl Methyl Ether (TAME)	0.00845	0.00057	mg/Kg wet	0.0113		74.6	70-130			
Benzene	0.0103	0.0011	mg/Kg wet	0.0113		91.2	70-130			
Bromobenzene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Bromochloromethane	0.00790	0.0011	mg/Kg wet	0.0113		69.7 *	70-130			V-05, L-04
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130			
Bromoform	0.0144	0.0011	mg/Kg wet	0.0113		127	70-130			V-20
Bromomethane	0.0140	0.0023	mg/Kg wet	0.0113		124	40-130			V-34
2-Butanone (MEK)	0.236	0.023	mg/Kg wet	0.227		104	70-160			
tert-Butyl Alcohol (TBA)	0.124	0.023	mg/Kg wet	0.113		109	40-130			
n-Butylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
sec-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-160			
tert-Butyl Ethyl Ether (TBEE)	0.00899	0.00057	mg/Kg wet	0.0113		79.3	70-130			
Carbon Disulfide	0.230	0.0057	mg/Kg wet	0.227		102	70-130			
Carbon Tetrachloride	0.0113	0.0011	mg/Kg wet	0.0113		99.3	70-130			
Chlorobenzene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			
Chlorodibromomethane	0.0123	0.00057	mg/Kg wet	0.0113		108	70-130			



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285216 - SW-846 5035/5030B											
LCS (B285216-BS1)			·	Prepared & A	Analyzed: 07/0	02/21					
Chloroethane	0.00900	0.0023	mg/Kg wet	0.0113		79.4	70-130			R-05	
Chloroform	0.0105	0.0023	mg/Kg wet	0.0113		92.5	70-130				
Chloromethane	0.0134	0.0023	mg/Kg wet	0.0113		118	70-130				
2-Chlorotoluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130				
4-Chlorotoluene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0106	0.0057	mg/Kg wet	0.0113		93.8	70-130				
1,2-Dibromoethane (EDB)	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130				
Dibromomethane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130				
1,2-Dichlorobenzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130				
1,3-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130				
1,4-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130				
trans-1,4-Dichloro-2-butene	0.0105	0.0023	mg/Kg wet	0.0113		92.5	70-130				
Dichlorodifluoromethane (Freon 12)	0.0112	0.0023	mg/Kg wet	0.0113		98.9	40-160				
1,1-Dichloroethane	0.0107	0.0011	mg/Kg wet	0.0113		94.4	70-130				
1,2-Dichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130				
1,1-Dichloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130				
cis-1,2-Dichloroethylene	0.0107	0.0011	mg/Kg wet	0.0113		94.0	70-130				
trans-1,2-Dichloroethylene	0.00938	0.0011	mg/Kg wet	0.0113		82.8	70-130				
Dichlorofluoromethane (Freon 21)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130				
1,2-Dichloropropane	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130				
1,3-Dichloropropane	0.0116	0.00057	mg/Kg wet	0.0113		103	70-130				
2,2-Dichloropropane	0.00968	0.0011	mg/Kg wet	0.0113		85.4	70-130				
1,1-Dichloropropene	0.0108	0.0023	mg/Kg wet	0.0113		94.9	70-130				
cis-1,3-Dichloropropene	0.0113	0.00057	mg/Kg wet	0.0113		100	70-130				
trans-1,3-Dichloropropene	0.0108	0.00057	mg/Kg wet	0.0113		95.7	70-130				
Diethyl Ether	0.0121	0.0023	mg/Kg wet	0.0113		106	70-130				
Difluorochloromethane (Freon 22)	0.0107	0.0011	mg/Kg wet	0.0113		94.1	70-130				
Diisopropyl Ether (DIPE)	0.0106	0.00057	mg/Kg wet	0.0113		93.1	70-130				
1,4-Dioxane	0.133	0.057	mg/Kg wet	0.113		117	40-160				
Ethylbenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130				
Hexachlorobutadiene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-160				
2-Hexanone (MBK)	0.260	0.011	mg/Kg wet	0.227		115	70-160				
Isopropylbenzene (Cumene)	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130				
p-Isopropyltoluene (p-Cymene)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130				
Methyl Acetate	0.0140	0.011	mg/Kg wet	0.0113		123	70-130			V-20	
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.5	70-130				
Methyl Cyclohexane	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130				
Methylene Chloride	0.0114	0.0057	mg/Kg wet	0.0113		100	40-160				
4-Methyl-2-pentanone (MIBK)	0.254	0.011	mg/Kg wet	0.227		112	70-160				
Naphthalene	0.0105	0.0023	mg/Kg wet	0.0113		93.0	40-130				
n-Propylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130				
Styrene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130				
1,1,1,2-Tetrachloroethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130				
1,1,2,2-Tetrachloroethane	0.0136	0.00057	mg/Kg wet	0.0113		120	70-130				
Tetrachloroethylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130				
Tetrahydrofuran	0.0115	0.011	mg/Kg wet	0.0113		102	70-130				
Toluene	0.0113	0.0011	mg/Kg wet	0.0113		99.9	70-130				
1,2,3-Trichlorobenzene	0.0111	0.0057	mg/Kg wet	0.0113		97.8	70-130				
1,2,4-Trichlorobenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130				
1,3,5-Trichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130				
1,1,1-Trichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		96.9	70-130				
1,1,2-Trichloroethane	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130				



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285216 - SW-846 5035/5030B										
LCS (B285216-BS1)				Prepared & A	Analyzed: 07/0	02/21				
Trichloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Trichlorofluoromethane (Freon 11)	0.0120	0.0023	mg/Kg wet	0.0113		106	70-130			
1,2,3-Trichloropropane	0.0132	0.0023	mg/Kg wet	0.0113		117	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,2,4-Trimethylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3,5-Trimethylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Vinyl Chloride	0.0105	0.0023	mg/Kg wet	0.0113		92.8	40-130			
m+p Xylene	0.0244	0.0023	mg/Kg wet	0.0227		108	70-130			
o-Xylene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0253		mg/Kg wet	0.0283		89.4	70-130			
Surrogate: Toluene-d8	0.0272		mg/Kg wet	0.0283		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0288		mg/Kg wet	0.0283		102	70-130			
LCS Dup (B285216-BSD1)			:	Prepared & A	Analyzed: 07/0	02/21				
Acetone	0.226	0.057	mg/Kg wet	0.227		99.6	70-160	4.92	25	
Acrylonitrile	0.0128	0.0057	mg/Kg wet	0.0113		113	70-130	4.09	25	
tert-Amyl Methyl Ether (TAME)	0.00904	0.00057	mg/Kg wet	0.0113		79.8	70-130	6.74	25	
Benzene	0.0102	0.0011	mg/Kg wet	0.0113		90.0	70-130	1.32	25	
Bromobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	2.99	25	
Bromochloromethane	0.00775	0.0011	mg/Kg wet	0.0113		68.4 *	70-130	1.88	25	L-04, V-05
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		98.6	70-130	0.506	25	
Bromoform	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130	4.52	25	V-20
Bromomethane	0.0140	0.0023	mg/Kg wet	0.0113		124	40-130	0.162	25	V-34
2-Butanone (MEK)	0.238	0.023	mg/Kg wet	0.227		105	70-160	0.703	25	
tert-Butyl Alcohol (TBA)	0.132	0.023	mg/Kg wet	0.113		116	40-130	6.20	25	
n-Butylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.3	70-130	3.14	25	
sec-Butylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.7	70-130	2.18	25	
tert-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-160	1.57	25	
tert-Butyl Ethyl Ether (TBEE)	0.00963	0.00057	mg/Kg wet	0.0113		85.0	70-130	6.94	25	
Carbon Disulfide	0.220	0.0057	mg/Kg wet	0.227		97.1	70-130	4.61	25	
Carbon Tetrachloride	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130	3.07	25	
Chlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	3.50	25	
Chlorodibromomethane	0.0120	0.00057	mg/Kg wet	0.0113		106	70-130	2.05	25	
Chloroethane	0.00687	0.0023	mg/Kg wet	0.0113		60.6 *	70-130	26.9	* 25	L-07A, R-05
Chloroform	0.0106	0.0023	mg/Kg wet	0.0113		93.8	70-130	1.40	25	
Chloromethane	0.0136	0.0023	mg/Kg wet	0.0113		120	70-130	1.26	25	
2-Chlorotoluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	0.298	25	
4-Chlorotoluene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	4.34	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0103	0.0057	mg/Kg wet	0.0113		90.7	70-130	3.36	25	
1,2-Dibromoethane (EDB)	0.0113	0.00057	mg/Kg wet	0.0113		99.9	70-130	3.25	25	
Dibromomethane	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130	2.30	25	
1,2-Dichlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	0.827	25	
1,3-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	2.36	25	
1,4-Dichlorobenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	1.34	25	
trans-1,4-Dichloro-2-butene	0.0104	0.0023	mg/Kg wet	0.0113		92.0	70-130	0.542	25	
Dichlorodifluoromethane (Freon 12)	0.0110	0.0023	mg/Kg wet	0.0113		97.0	40-160	1.94	25	
1,1-Dichloroethane	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130	2.14	25	
1,2-Dichloroethane	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130	3.34	25	
1,1-Dichloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	0.768	25	
cis-1,2-Dichloroethylene	0.0106	0.0011	mg/Kg wet	0.0113		93.5	70-130	0.533	25	
trans-1,2-Dichloroethylene	0.00964	0.0011	mg/Kg wet	0.0113		85.1	70-130	2.74	25	
Dichlorofluoromethane (Freon 21)	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130	2.08	25	



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285216 - SW-846 5035/5030B											
LCS Dup (B285216-BSD1)				Prepared & A	Analyzed: 07	/02/21					
1,2-Dichloropropane	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130	3.18	25		
1,3-Dichloropropane	0.0116	0.00057	mg/Kg wet	0.0113		102	70-130	0.390	25		
2,2-Dichloropropane	0.00940	0.0011	mg/Kg wet	0.0113		82.9	70-130	2.97	25		
1,1-Dichloropropene	0.0103	0.0023	mg/Kg wet	0.0113		90.6	70-130	4.64	25		
cis-1,3-Dichloropropene	0.0108	0.00057	mg/Kg wet	0.0113		95.7	70-130	4.49	25		
trans-1,3-Dichloropropene	0.0109	0.00057	mg/Kg wet	0.0113		95.9	70-130	0.209	25		
Diethyl Ether	0.0118	0.0023	mg/Kg wet	0.0113		104	70-130	2.19	25		
Difluorochloromethane (Freon 22)	0.0101	0.0011	mg/Kg wet	0.0113		89.3	70-130	5.23	25		
Diisopropyl Ether (DIPE)	0.0104	0.00057	mg/Kg wet	0.0113		91.8	70-130	1.41	25		
1,4-Dioxane	0.131	0.057	mg/Kg wet	0.113		115	40-160	1.79	50		† ‡
Ethylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130	3.52	25		
Hexachlorobutadiene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-160	0.582	25		
2-Hexanone (MBK)	0.257	0.011	mg/Kg wet	0.227		113	70-160	1.17	25		†
Isopropylbenzene (Cumene)	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	4.33	25		'
p-Isopropyltoluene (p-Cymene)	0.0112	0.0011	mg/Kg wet	0.0113		99.0	70-130	3.18	25		
Methyl Acetate	0.0112	0.011	mg/Kg wet	0.0113		138 *	70-130	11.3	25	L-07, V-20	
Methyl tert-Butyl Ether (MTBE)	0.0103	0.0011	mg/Kg wet	0.0113		90.6	70-130	0.988	25	2 07, 7 20	
Methyl Cyclohexane	0.0103	0.0011	mg/Kg wet	0.0113		95.3	70-130	3.71	25		
Methylene Chloride	0.0108	0.0057	mg/Kg wet	0.0113		89.6	40-160	11.2	25		†
4-Methyl-2-pentanone (MIBK)	0.254	0.011	mg/Kg wet	0.227		112	70-160	0.236	25		†
Naphthalene	0.0100	0.0023	mg/Kg wet	0.0113		88.6	40-130	4.85	25		†
n-Propylbenzene	0.0100	0.0011	mg/Kg wet	0.0113		103	70-130	4.36	25		1
Styrene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130	3.11	25		
1,1,1,2-Tetrachloroethane	0.0118	0.0011	mg/Kg wet	0.0113		114	70-130	0.439	25		
1,1,2,2-Tetrachloroethane	0.0129	0.00057	mg/Kg wet	0.0113		115	70-130	3.75	25		
Tetrachloroethylene	0.0131	0.0011	mg/Kg wet	0.0113		101	70-130	4.84	25		
Tetrahydrofuran	0.0114	0.011	mg/Kg wet	0.0113		99.2	70-130	2.69	25		
Toluene	0.0112	0.0011	mg/Kg wet	0.0113		96.8	70-130	3.15	25		
1,2,3-Trichlorobenzene		0.0011	mg/Kg wet	0.0113		96.4	70-130	1.44	25		
1,2,4-Trichlorobenzene	0.0109	0.0037	mg/Kg wet	0.0113					25		
1,3,5-Trichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130	3.34 2.59			
1,1,1-Trichloroethane	0.0117	0.0011	mg/Kg wet			103	70-130	4.00	25 25		
1,1,2-Trichloroethane	0.0106	0.0011	mg/Kg wet	0.0113 0.0113		93.1 106	70-130 70-130	3.61	25		
Trichloroethylene	0.0120	0.0011	mg/Kg wet	0.0113		99.9	70-130	4.21	25		
Trichlorofluoromethane (Freon 11)	0.0113	0.0011	mg/Kg wet	0.0113		102					
1,2,3-Trichloropropane	0.0115	0.0023	mg/Kg wet				70-130	3.85	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	0.0130	0.0023	mg/Kg wet	0.0113		115	70-130	1.90	25		
113) 1,2,4-Trimethylbenzene	0.0116 0.0113	0.0011	mg/Kg wet	0.0113		103 99.7	70-130 70-130	1.36 2.08	25 25		
1,3,5-Trimethylbenzene		0.0011	mg/Kg wet	0.0113		105	70-130	3.00	25		
Vinyl Chloride	0.0119	0.0011	mg/Kg wet	0.0113		88.6	40-130	4.63	25		†
m+p Xylene	0.0100	0.0023	mg/Kg wet	0.0113					25		1
o-Xylene	0.0234	0.0023	mg/Kg wet	0.0227		103	70-130	4.17	25 25		
	0.0119	0.0011				105	70-130	2.62	23		
Surrogate: 1,2-Dichloroethane-d4	0.0254		mg/Kg wet	0.0283		89.5	70-130				
Surrogate: Toluene-d8	0.0268		mg/Kg wet	0.0283		94.5	70-130				
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg wet	0.0283		99.2	70-130				



Methyl Acetate

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
-	icesuit	Limit	Omto	Level	resuit	/UKEC	Lillits	МЪ	Limit	110105
Batch B285222 - SW-846 5035										
Blank (B285222-BLK1)				Prepared & A	Analyzed: 07	//02/21				
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020 0.0020	mg/Kg wet mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.0020	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							V-34
ert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND ND	0.0020	mg/Kg wet							
ert-Butylbenzene	ND ND	0.0020	mg/Kg wet							
ert-Butyl Ethyl Ether (TBEE)	ND ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
-Chlorotoluene	ND	0.0020	mg/Kg wet							
-Chlorotoluene	ND	0.0020	mg/Kg wet							
,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
rans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							V-05
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
,1-Dichloroethane	ND	0.0020	mg/Kg wet							
,2-Dichloroethane	ND	0.0020	mg/Kg wet							
,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
is-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
rans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
,2-Dichloropropane	ND	0.0020	mg/Kg wet							
,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
,1-Dichloropropene	ND	0.0020	mg/Kg wet							
is-1,3-Dichloropropene rans-1,3-Dichloropropene	ND	0.0010 0.0010	mg/Kg wet mg/Kg wet							
Diethyl Ether	ND	0.0010	mg/Kg wet							
Disopropyl Ether (DIPE)	ND	0.020	mg/Kg wet							
,4-Dioxane	ND	0.0010	mg/Kg wet							
thylbenzene	ND ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND ND	0.0020	mg/Kg wet							
-Hexanone (MBK)	ND ND	0.0020	mg/Kg wet							
sopropylbenzene (Cumene)	ND ND	0.0020	mg/Kg wet							
-Isopropyltoluene (p-Cymene)	ND ND	0.0020	mg/Kg wet							
Methyl Acetate	ND		mg/Kg wet							

ND

0.0020 mg/Kg wet



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285222 - SW-846 5035											
Blank (B285222-BLK1)				Prepared & A	Analyzed: 07	/02/21					
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet								
Methyl Cyclohexane	ND	0.0020	mg/Kg wet								
Methylene Chloride	ND	0.020	mg/Kg wet								
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet								
Naphthalene	ND	0.0040	mg/Kg wet								
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND	0.010	mg/Kg wet								
113)											
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	0.0589		mg/Kg wet	0.0500		118	70-130				
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.1	70-130				
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.5	70-130				
LCS (B285222-BS1)				Prepared & A	Analyzed: 07	/02/21					
Acetone	0.235	0.10	mg/Kg wet	0.200		117	70-160			V-20	
Acrylonitrile	0.0219	0.0060	mg/Kg wet	0.0200		109	70-130				
tert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130				
Benzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130				
Bromobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130				
Bromochloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130				
Bromodichloromethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130				
Bromomethane	0.0245	0.010	mg/Kg wet	0.0200		123	40-130			V-20, V-34	
2-Butanone (MEK)	0.236	0.040	mg/Kg wet	0.200		118	70-160				
tert-Butyl Alcohol (TBA)	0.217	0.10	mg/Kg wet	0.200		109	40-130				
n-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.0	70-130				
sec-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.8	70-130				
tert-Butylbenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-160				
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130				
Carbon Disulfide	0.207	0.0060	mg/Kg wet	0.200		103	70-130				
Carbon Tetrachloride	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130				
Chlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130				
Chlorodibromomethane	0.0239	0.0010	mg/Kg wet	0.0200		119	70-130				
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110	70-130				
Chloroform	0.0225	0.0040	mg/Kg wet	0.0200		112	70-130				



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285222 - SW-846 5035											
LCS (B285222-BS1)				Prepared & A	Analyzed: 07	/02/21					
Chloromethane	0.0238	0.010	mg/Kg wet	0.0200		119	70-130				
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130				
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130				
1,2-Dibromoethane (EDB)	0.0221	0.0010	mg/Kg wet	0.0200		110	70-130				
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130				
1,2-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130				
1,3-Dichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130				
1,4-Dichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130				
trans-1,4-Dichloro-2-butene	0.0158	0.0040	mg/Kg wet	0.0200		78.8	70-130			V-05	
Dichlorodifluoromethane (Freon 12)	0.0216	0.020	mg/Kg wet	0.0200		108	40-160				
1,1-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130				
1,2-Dichloroethane	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130			V-20	
1,1-Dichloroethylene	0.0243	0.0040	mg/Kg wet	0.0200		122	70-130			V-20	
cis-1,2-Dichloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130				
trans-1,2-Dichloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130				
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130				
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130				
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130				
eis-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130				
rans-1,3-Dichloropropene	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130				
Diethyl Ether	0.0226	0.020	mg/Kg wet	0.0200		113	70-130				
Diisopropyl Ether (DIPE)	0.0223	0.0010	mg/Kg wet	0.0200		111	70-130				
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		104	40-160				
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.3	70-130				
Hexachlorobutadiene	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-160				
2-Hexanone (MBK)	0.217	0.020	mg/Kg wet	0.200		109	70-160				
Isopropylbenzene (Cumene)	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130				
p-Isopropyltoluene (p-Cymene)	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130				
Methyl Acetate	0.0311	0.0020	mg/Kg wet	0.0200		156 *	70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	0.0223	0.0040	mg/Kg wet	0.0200		112	70-130				
Methyl Cyclohexane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130				
Methylene Chloride	0.0239	0.020	mg/Kg wet	0.0200		119	40-160			V-20	
4-Methyl-2-pentanone (MIBK)	0.229	0.020	mg/Kg wet	0.200		114	70-160				
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	40-130				
n-Propylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130				
Styrene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130				
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130				
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130				
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130				
Tetrahydrofuran	0.0211	0.010	mg/Kg wet	0.0200		105	70-130				
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
1,2,3-Trichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130				
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130				
1,3,5-Trichlorobenzene	0.0170	0.0020	mg/Kg wet	0.0200		84.9	70-130				
1,1,1-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130				
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130				
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130				
Trichlorofluoromethane (Freon 11)	0.0227	0.010	mg/Kg wet	0.0200		113	70-130				
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285222 - SW-846 5035											_
LCS (B285222-BS1)				Prepared &	Analyzed: 07/	02/21					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	0.0215	0.010	mg/Kg wet	0.0200		108	70-130				
113)		0.0020	/IZt	0.0200		00.5	5 0.120				
1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	0.0165	0.0020 0.0020	mg/Kg wet	0.0200		82.5	70-130				
Vinyl Chloride	0.0187	0.0020	mg/Kg wet mg/Kg wet	0.0200 0.0200		93.7 112	70-130 40-130				
m+p Xylene	0.0225 0.0379	0.0040	mg/Kg wet	0.0200		94.8	70-130				
o-Xylene	0.0379	0.0020	mg/Kg wet	0.0200		94.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0567		mg/Kg wet	0.0500		113	70-130				_
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130				
Surrogate: 4-Bromofluorobenzene	0.0518		mg/Kg wet	0.0500		104	70-130				
-	0.0210						70 130				
LCS Dup (B285222-BSD1)					Analyzed: 07/						
Acetone	0.225	0.10	mg/Kg wet	0.200		113	70-160	4.09	25	V-20	
Acrylonitrile	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	7.20	25		
tert-Amyl Methyl Ether (TAME)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130	5.34	25		
Benzene Bromobenzene	0.0191	0.0020 0.0020	mg/Kg wet mg/Kg wet	0.0200		95.4	70-130	2.81	25 25		
Bromochloromethane	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	4.35	25 25		
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.82	25 25		
Bromoform	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	6.36	25 25		
Bromomethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.33	25 25	V/20 V/24	
2-Butanone (MEK)	0.0233	0.010	mg/Kg wet	0.0200 0.200		116 112	40-130 70-160	5.26 5.37	25 25	V-20, V-34	
tert-Butyl Alcohol (TBA)	0.223	0.10	mg/Kg wet	0.200		106	40-130	2.06	25		
n-Butylbenzene	0.213	0.0020	mg/Kg wet	0.200		78.4	70-130	3.35	25		
sec-Butylbenzene	0.0157	0.0020	mg/Kg wet	0.0200		75.6	70-130	6.59	25		
tert-Butylbenzene	0.0151 0.0157	0.0020	mg/Kg wet	0.0200		78.5	70-130	6.39	25		
tert-Butyl Ethyl Ether (TBEE)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	3.12	25		
Carbon Disulfide	0.193	0.0060	mg/Kg wet	0.200		96.3	70-130	7.03	25		
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	7.53	25		
Chlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	5.62	25		
Chlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	7.12	25		
Chloroethane	0.0212	0.020	mg/Kg wet	0.0200		106	70-130	3.89	25		
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	7.63	25		
Chloromethane	0.0232	0.010	mg/Kg wet	0.0200		116	70-130	2.34	25		
2-Chlorotoluene	0.0184		mg/Kg wet	0.0200		91.9	70-130	5.95	25		
4-Chlorotoluene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130	5.98	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	4.66	25		
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	3.31	25		
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	1.66	25		
1,2-Dichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130	6.13	25		
1,3-Dichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130	3.59	25		
1,4-Dichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	2.67	25		
trans-1,4-Dichloro-2-butene	0.0145	0.0040	mg/Kg wet	0.0200		72.6	70-130	8.24	25	V-05	
Dichlorodifluoromethane (Freon 12)	0.0199	0.020	mg/Kg wet	0.0200		99.6	40-160	7.96	25		
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	4.24	25		
1,2-Dichloroethane	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	6.18	25	V-20	
1,1-Dichloroethylene	0.0222	0.0040	mg/Kg wet	0.0200		111	70-130	9.10	25	V-20	
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	6.13	25		
trans-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.12	25		
1,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.08	25		
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	0.283	25		
2,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	8.49	25		
1,1-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.47	25		



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285222 - SW-846 5035											_
LCS Dup (B285222-BSD1)				Prepared & A	Analyzed: 07	/02/21					
cis-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130	4.88	25		
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	2.81	25		
Diethyl Ether	0.0219	0.020	mg/Kg wet	0.0200		109	70-130	3.01	25		
Diisopropyl Ether (DIPE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	3.83	25		
1,4-Dioxane	0.203	0.10	mg/Kg wet	0.200		101	40-160	3.04	50		†
Ethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130	6.18	25		
Hexachlorobutadiene	0.0156	0.0020	mg/Kg wet	0.0200		78.1	70-160	9.67	25		
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160	4.21	25		†
Isopropylbenzene (Cumene)	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130	6.88	25		
p-Isopropyltoluene (p-Cymene)	0.0157	0.0020	mg/Kg wet	0.0200		78.7	70-130	6.61	25		
Methyl Acetate	0.0301	0.0020	mg/Kg wet	0.0200		150 *	70-130	3.31	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130	4.80	25		
Methyl Cyclohexane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130	10.6	25		
Methylene Chloride	0.0236	0.020	mg/Kg wet	0.0200		118	40-160	1.21	25	V-20	†
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160	4.90	25		†
Naphthalene	0.0158	0.0040	mg/Kg wet	0.0200		79.2	40-130	7.57	25		†
n-Propylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	4.33	25		
Styrene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130	4.90	25		
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	5.00	25		
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130	6.34	25		
Tetrachloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	6.55	25		
Tetrahydrofuran	0.0199	0.010	mg/Kg wet	0.0200		99.6	70-130	5.53	25		
Toluene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	7.24	25		
1,2,3-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130	7.24	25		
1,2,4-Trichlorobenzene	0.0165	0.0020	mg/Kg wet	0.0200		82.3	70-130	5.63	25		
1,3,5-Trichlorobenzene	0.0158	0.0020	mg/Kg wet	0.0200		79.2	70-130	6.94	25		
1,1,1-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	7.73	25		
1,1,2-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.45	25		
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	3.56	25		
Trichlorofluoromethane (Freon 11)	0.0211	0.010	mg/Kg wet	0.0200		106	70-130	7.10	25		
1,2,3-Trichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.88	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0194	0.010	mg/Kg wet	0.0200		97.0	70-130	10.5	25		
1,2,4-Trimethylbenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.7	70-130	3.47	25		
1,3,5-Trimethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130	6.79	25		
Vinyl Chloride	0.0207	0.010	mg/Kg wet	0.0200		104	40-130	8.33	25		†
m+p Xylene	0.0364	0.0040	mg/Kg wet	0.0400		91.1	70-130	3.94	25		
o-Xylene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	4.97	25		
Surrogate: 1,2-Dichloroethane-d4	0.0573		mg/Kg wet	0.0500		115	70-130				
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130				
Surrogate: 4-Bromofluorobenzene	0.0522		mg/Kg wet	0.0500		104	70-130				
Batch B285252 - SW-846 5035											_
Blank (B285252-BLK1)				Prepared & A	Analyzed: 07	/02/21					_
Acetone	ND	0.10	mg/Kg wet								
Acrylonitrile	ND	0.0060	mg/Kg wet								
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet								
Benzene	ND	0.0020	mg/Kg wet								
Bromobenzene	ND	0.0020	mg/Kg wet								
Bromochloromethane	ND	0.0020	mg/Kg wet								
Bromodichloromethane	ND	0.0020	mg/Kg wet								
Bromoform	ND	0.0020	mg/Kg wet								



QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

	Volati	le Organic Con	npounds by G	C/MS - Qua	lity Control					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285252 - SW-846 5035										
Blank (B285252-BLK1)				Prepared &	Analyzed: 07	/02/21				
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
ert-Butylbenzene	ND	0.0020	mg/Kg wet							
ert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							V-05
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
-Chlorotoluene	ND	0.0020	mg/Kg wet							
-Chlorotoluene	ND	0.0020	mg/Kg wet							
,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
rans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
,1-Dichloroethane	ND	0.0020	mg/Kg wet							
,2-Dichloroethane	ND	0.0020	mg/Kg wet							
,1-Dichloroethylene	ND	0.0040	mg/Kg wet							V-05
sis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							* 05
rans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
,2-Dichloropropane	ND ND	0.0020	mg/Kg wet							
,3-Dichloropropane		0.0010	mg/Kg wet							
,2-Dichloropropane	ND	0.0020	mg/Kg wet							
,1-Dichloropropene	ND	0.0020	mg/Kg wet							
is-1,3-Dichloropropene	ND	0.0020	mg/Kg wet							
rans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
-	ND									
Diisopropyl Ether (DIPE) ,4-Dioxane	ND	0.0010	mg/Kg wet							
	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
I Language (MDK)	ND	0.0020	mg/Kg wet							
-Hexanone (MBK)	ND	0.020	mg/Kg wet							
sopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	ma/K a wet							

 $0.0020 \quad mg/Kg \ wet$

ND

ND

1,1,1,2-Tetrachloroethane



QUALITY CONTROL

ınalyte	Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atch B285252 - SW-846 5035										
lank (B285252-BLK1)				Prepared & A	Analyzed: 07/	/02/21				
1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
etrachloroethylene	ND	0.0020	mg/Kg wet							
etrahydrofuran	ND	0.010	mg/Kg wet							
bluene	ND	0.0020	mg/Kg wet							
2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
richloroethylene	ND	0.0020	mg/Kg wet							
richlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							L-04, V-05
2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2-Trichloro-1,2,2-trifluoroethane (Freon 3)	ND	0.010	mg/Kg wet							
2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
inyl Chloride	ND	0.010	mg/Kg wet							
+p Xylene	ND	0.0040	mg/Kg wet							
Xylene	ND	0.0020	mg/Kg wet							
rrogate: 1,2-Dichloroethane-d4	0.0513		mg/Kg wet	0.0500		103	70-130			
rrogate: Toluene-d8	0.0535		mg/Kg wet	0.0500		107	70-130			
rrogate: 4-Bromofluorobenzene	0.0559		mg/Kg wet	0.0500		112	70-130			
CS (B285252-BS1)				Prepared & A	Analyzed: 07/	/02/21				
cetone	0.176	0.10	mg/Kg wet	0.200	Inary Zear o //	87.9	70-160			
crylonitrile		0.0060	mg/Kg wet	0.0200		106	70-130			
t-Amyl Methyl Ether (TAME)	0.0212	0.0010	mg/Kg wet	0.0200		100	70-130			
enzene	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
romobenzene	0.0212 0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
romochloromethane		0.0020	mg/Kg wet	0.0200		131 *	70-130			L-07, V-20
romodichloromethane	0.0263	0.0020	mg/Kg wet	0.0200		107	70-130			L-07, V-20
romoform	0.0213	0.0020	mg/Kg wet	0.0200		89.3	70-130			
romomethane	0.0179	0.0020	mg/Kg wet							1 02 3/20
	0.0277			0.0200			40-130			L-02, V-20
Butanone (MEK) rt-Butyl Alcohol (TBA)	0.216	0.040	mg/Kg wet	0.200		108	70-160			
, ,	0.177	0.10	0 0	0.200		88.3	40-130			
Butylbenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130			
c-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
rt-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-160			
rt-Butyl Ethyl Ether (TBEE)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			***
arbon Disulfide	0.148	0.0060	mg/Kg wet	0.200		73.9	70-130			V-05
arbon Tetrachloride	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
hlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
nlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130			
nloroethane	0.0162	0.020	mg/Kg wet	0.0200		80.9	70-130			
hloroform	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
nloromethane	0.0236	0.010	mg/Kg wet	0.0200		118	70-130			
Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130			
2-Dibromoethane (EDB)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
		0.0000	ma o /V o vriat	0.0200		100	70 120			
ibromomethane 2-Dichlorobenzene	0.0217	0.0020 0.0020	mg/Kg wet mg/Kg wet	0.0200 0.0200		109	70-130			



QUALITY CONTROL

Spike

Source

%REC

RPD

Volatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285252 - SW-846 5035										
LCS (B285252-BS1)			·	Prepared & A	Analyzed: 07	/02/21				
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
trans-1,4-Dichloro-2-butene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
Dichlorodifluoromethane (Freon 12)	0.0181	0.020	mg/Kg wet	0.0200		90.4	40-160			
1,1-Dichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
1,1-Dichloroethylene	0.0156	0.0040	mg/Kg wet	0.0200		78.1	70-130			V-05
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,2-Dichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.1	70-130			
trans-1,3-Dichloropropene	0.0235	0.0010	mg/Kg wet	0.0200		118	70-130			
Diethyl Ether	0.0163	0.020	mg/Kg wet	0.0200		81.7	70-130			
Diisopropyl Ether (DIPE)	0.0238	0.0010	mg/Kg wet	0.0200		119	70-130			
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.2	40-160			
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Hexachlorobutadiene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-160			
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	70-160			
Isopropylbenzene (Cumene)	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
p-Isopropyltoluene (p-Cymene)		0.0020	mg/Kg wet	0.0200		82.2	70-130			
Methyl Acetate	0.0164	0.0020	mg/Kg wet							I 02 V 20
Methyl tert-Butyl Ether (MTBE)	0.0275	0.0020	mg/Kg wet	0.0200			70-130			L-02, V-20
	0.0186			0.0200		92.9	70-130			
Methyl Cyclohexane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Methylene Chloride	0.0236	0.020	mg/Kg wet	0.0200		118	40-160			
4-Methyl-2-pentanone (MIBK)	0.220	0.020	mg/Kg wet	0.200		110	70-160			
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		80.9	40-130			
n-Propylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Styrene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130			
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2,2-Tetrachloroethane	0.0179	0.0010	mg/Kg wet	0.0200		89.6	70-130			
Tetrachloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130			
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2,3-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.1	70-130			V-05
1,2,4-Trichlorobenzene	0.0153	0.0020	mg/Kg wet	0.0200		76.7	70-130			
1,3,5-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.1	70-130			
1,1,1-Trichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Trichlorofluoromethane (Freon 11)	0.0131	0.010	mg/Kg wet	0.0200		65.5 *	70-130			L-04, V-05
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0164	0.010	mg/Kg wet	0.0200		81.9	70-130			
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Vinyl Chloride	0.0179	0.010	mg/Kg wet	0.0200		89.3	40-130			
m+p Xylene	0.0388	0.0040	mg/Kg wet	0.0400		97.0	70-130			
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0485		mg/Kg wet	0.0500		97.0	70-130			
Surrogate: Toluene-d8	0.0545		mg/Kg wet	0.0500		109	70-130			



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285252 - SW-846 5035										
LCS (B285252-BS1)				Prepared & A	Analyzed: 07	/02/21				
Surrogate: 4-Bromofluorobenzene	0.0564		mg/Kg wet	0.0500		113	70-130			
LCS Dup (B285252-BSD1)				Prepared & A	Analyzed: 07	/02/21				
Acetone	0.174	0.10	mg/Kg wet	0.200		87.2	70-160	0.811	25	
Acrylonitrile	0.0228	0.0060	mg/Kg wet	0.0200		114	70-130	7.27	25	
ert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	4.60	25	
Benzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.43	25	
Bromobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	0.219	25	
Bromochloromethane	0.0257	0.0020	mg/Kg wet	0.0200		129	70-130	2.00	25	V-20
Bromodichloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.70	25	
Bromoform	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130	1.22	25	
romomethane	0.0264	0.010	mg/Kg wet	0.0200		132 *	40-130	4.80	25	L-02, V-20
-Butanone (MEK)	0.223	0.040	mg/Kg wet	0.200		112	70-160	3.14	25	- ,
ert-Butyl Alcohol (TBA)	0.182	0.10	mg/Kg wet	0.200		91.1	40-130	3.12	25	
-Butylbenzene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130	1.56	25	
ec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	7.84	25	
ert-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-150	2.27	25	
ert-Butyl Ethyl Ether (TBEE)	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	3.84	25	
arbon Disulfide	0.143	0.0060	mg/Kg wet	0.200		71.6	70-130	3.11	25	V-05
arbon Tetrachloride	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	3.57	25	V-03
hlorobenzene		0.0020	mg/Kg wet	0.0200		94.1	70-130	6.58	25	
hlorodibromomethane	0.0188	0.0020	mg/Kg wet	0.0200		113	70-130	1.78	25	
hloroethane	0.0226	0.020	mg/Kg wet	0.0200		84.3	70-130	4.12	25	
hloroform	0.0169	0.0040	mg/Kg wet	0.0200		112	70-130	0.533	25	
hloromethane	0.0224	0.010	mg/Kg wet							
-Chlorotoluene	0.0231	0.0020	mg/Kg wet	0.0200 0.0200		116	70-130	2.05	25 25	
-Chlorotoluene	0.0195	0.0020	mg/Kg wet			97.7	70-130	4.11		
	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.198	25	
,2-Dibromo-3-chloropropane (DBCP) ,2-Dibromoethane (EDB)	0.0165			0.0200		82.4	70-130	2.75	25	
, ,	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	0.354	25	
ibromomethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	6.41	25	
2-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130	1.21	25	
3-Dichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130	0.556	25	
,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130	4.04	25	
rans-1,4-Dichloro-2-butene	0.0187	0.0040	mg/Kg wet	0.0200		93.6	70-130	7.31	25	
Dichlorodifluoromethane (Freon 12)	0.0167	0.020	mg/Kg wet	0.0200		83.4	40-160	8.06	25	
,1-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.13	25	
,2-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	0.349	25	
1-Dichloroethylene	0.0150	0.0040	mg/Kg wet	0.0200		75.0	70-130	4.05	25	V-05
is-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.485	25	
ans-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	4.19	25	
,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	1.65	25	
3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		97.9	70-130	3.22	25	
2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	0.936	25	
1-Dichloropropene	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	18.2	25	
s-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	3.76	25	
ans-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	10.7	25	
iethyl Ether	0.0180	0.020	mg/Kg wet	0.0200		89.9	70-130	9.56	25	
iisopropyl Ether (DIPE)	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130	2.29	25	
4-Dioxane	0.255	0.10	mg/Kg wet	0.200		128	40-160	26.0	50	
thylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	1.52	25	
Iexachlorobutadiene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-160	1.87	25	
-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113	70-160	0.697	25	



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285252 - SW-846 5035											_
LCS Dup (B285252-BSD1)				Prepared & A	Analyzed: 07	/02/21					_
Isopropylbenzene (Cumene)	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	3.05	25		_
p-Isopropyltoluene (p-Cymene)	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130	1.81	25		
Methyl Acetate	0.0289	0.0020	mg/Kg wet	0.0200		144 *	70-130	4.90	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.4	70-130	4.73	25		
Methyl Cyclohexane	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.23	25		
Methylene Chloride	0.0235	0.020	mg/Kg wet	0.0200		117	40-160	0.680	25		†
4-Methyl-2-pentanone (MIBK)	0.223	0.020	mg/Kg wet	0.200		111	70-160	1.10	25		†
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		81.2	40-130	0.370	25		†
n-Propylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	3.39	25		
Styrene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.437	25		
1,1,1,2-Tetrachloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.09	25		
1,1,2,2-Tetrachloroethane	0.0180	0.0010	mg/Kg wet	0.0200		89.9	70-130	0.334	25		
Tetrachloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	2.53	25		
Tetrahydrofuran	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	11.1	25		
Toluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	3.90	25		
1,2,3-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.0	70-130	1.37	25	V-05	
1,2,4-Trichlorobenzene	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130	1.84	25		
1,3,5-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.0200		82.1	70-130	2.47	25		
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	6.46	25		
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	6.35	25		
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	0.207	25		
Trichlorofluoromethane (Freon 11)	0.0131	0.010	mg/Kg wet	0.0200		65.4 *	70-130	0.153	25	L-04, V-05	
1,2,3-Trichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.26	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0164	0.010	mg/Kg wet	0.0200		82.1	70-130	0.244	25		
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	0.534	25		
1,3,5-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.37	25		
Vinyl Chloride	0.0166	0.010	mg/Kg wet	0.0200		83.2	40-130	7.07	25		†
m+p Xylene	0.0374	0.0040	mg/Kg wet	0.0400		93.6	70-130	3.67	25		
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	4.91	25		_
Surrogate: 1,2-Dichloroethane-d4	0.0490		mg/Kg wet	0.0500		97.9	70-130				_
Surrogate: Toluene-d8	0.0538		mg/Kg wet	0.0500		108	70-130				
Surrogate: 4-Bromofluorobenzene	0.0563		mg/Kg wet	0.0500		113	70-130				



Spike

Source

%REC

RPD

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285209 - SW-846 3546										
Blank (B285209-BLK1)				Prepared: 07	7/02/21 Analy	yzed: 07/07/2	1			
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
enzo(a)anthracene	ND	0.17	mg/Kg wet							
enzo(a)pyrene	ND	0.17	mg/Kg wet							
enzo(b)fluoranthene	ND	0.17	mg/Kg wet							
enzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
enzo(k)fluoranthene	ND	0.17	mg/Kg wet							
hrysene	ND	0.17	mg/Kg wet							
ibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
uoranthene	ND	0.17	mg/Kg wet							
uorene	ND	0.17	mg/Kg wet							
deno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Methylnaphthalene	ND	0.17	mg/Kg wet							
aphthalene	ND	0.17	mg/Kg wet							
henanthrene	ND	0.17	mg/Kg wet							
yrene	ND	0.17	mg/Kg wet							
urrogate: Nitrobenzene-d5	2.11		mg/Kg wet	3.33		63.3	30-130			
urrogate: 2-Fluorobiphenyl	2.16		mg/Kg wet	3.33		64.7	30-130			
urrogate: p-Terphenyl-d14	3.77		mg/Kg wet	3.33		113	30-130			
CS (B285209-BS1)				Prepared: 07	7/02/21 Analy	yzed: 07/07/2	1			
cenaphthene	1.03	0.17	mg/Kg wet	1.65		62.2	40-140			
cenaphthylene	1.10	0.17	mg/Kg wet	1.65		66.8	40-140			
nthracene	1.13	0.17	mg/Kg wet	1.65		68.2	40-140			
enzo(a)anthracene	1.14	0.17	mg/Kg wet	1.65		69.1	40-140			
enzo(a)pyrene	1.03	0.17	mg/Kg wet	1.65		62.6	40-140			
enzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.65		67.0	40-140			
enzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.65		71.1	40-140			
enzo(k)fluoranthene	1.08	0.17	mg/Kg wet	1.65		65.2	40-140			
hrysene	1.09	0.17	mg/Kg wet	1.65		65.9	40-140			
ibenz(a,h)anthracene luoranthene	1.13	0.17	mg/Kg wet	1.65		68.3	40-140			
	1.13	0.17	mg/Kg wet	1.65		68.6	40-140			
luorene	1.06	0.17	mg/Kg wet	1.65		64.5	40-140			
deno(1,2,3-cd)pyrene Methylnaphthalene	1.13	0.17	mg/Kg wet mg/Kg wet	1.65		68.5	40-140			
	1.15			1.65		69.9	40-140			
aphthalene henanthrene	1.06	0.17	mg/Kg wet mg/Kg wet	1.65		64.3	40-140 40-140			
nenanthrene yrene	1.12	0.17 0.17	mg/Kg wet mg/Kg wet	1.65 1.65		67.8	40-140 40-140			
•	1.14	0.17				69.0				
urrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.30		72.7	30-130			
urrogate: 2-Fluorobiphenyl	2.37		mg/Kg wet	3.30		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.03		mg/Kg wet	3.30		91.8	30-130			



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285209 - SW-846 3546										
LCS Dup (B285209-BSD1)				Prepared: 07	7/02/21 Analy	zed: 07/07/	21			
Acenaphthene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140	6.71	30	
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	2.81	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140	0.274	30	
Benzo(a)anthracene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	0.763	30	
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	4.70	30	
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	0.267	30	
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	1.70	30	
Benzo(k)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	2.88	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	1.69	30	
Dibenz(a,h)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	0.806	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	0.0283	30	
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	2.01	30	
ndeno(1,2,3-cd)pyrene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	3.73	30	
-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	4.20	30	
Japhthalene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	1.58	30	
henanthrene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	0.640	30	
yrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	2.00	30	
urrogate: Nitrobenzene-d5	2.42		mg/Kg wet	3.33		72.6	30-130			
urrogate: 2-Fluorobiphenyl	2.45		mg/Kg wet	3.33		73.4	30-130			
Surrogate: p-Terphenyl-d14	3.11		mg/Kg wet	3.33		93.2	30-130			
Matrix Spike (B285209-MS1)	Sou	rce: 21G0035	5-20	Prepared: 07	7/02/21 Analy	zed: 07/08/	21			
Acenaphthene	1.07	0.18	mg/Kg dry	1.76	ND	60.9	40-140			
cenaphthylene	1.13	0.18	mg/Kg dry	1.76	ND	64.0	40-140			
anthracene	1.15	0.18	mg/Kg dry	1.76	ND	65.2	40-140			
denzo(a)anthracene	1.24	0.18	mg/Kg dry	1.76	0.0554	67.2	40-140			
enzo(a)pyrene	1.19	0.18	mg/Kg dry	1.76	0.103	61.6	40-140			
Benzo(b)fluoranthene	1.31	0.18	mg/Kg dry	1.76	0.206	62.6	40-140			
Benzo(g,h,i)perylene	1.23	0.18	mg/Kg dry	1.76	ND	69.5	40-140			
Benzo(k)fluoranthene	1.21	0.18	mg/Kg dry	1.76	0.0754	64.3	40-140			
Chrysene	1.21	0.18	mg/Kg dry	1.76	0.0561	65.6	40-140			
Dibenz(a,h)anthracene	1.17	0.18	mg/Kg dry	1.76	ND	66.4	40-140			
luoranthene	1.22	0.18	mg/Kg dry	1.76	0.0740	65.2	40-140			
luorene	1.10	0.18	mg/Kg dry	1.76	ND	62.2	40-140			
ndeno(1,2,3-cd)pyrene	1.27	0.18	mg/Kg dry	1.76	0.0820	67.5	40-140			
-Methylnaphthalene	1.17	0.18	mg/Kg dry	1.76	ND	66.4	40-140			
Naphthalene	1.04	0.18	mg/Kg dry	1.76	ND	59.2	40-140			
henanthrene	1.18	0.18	mg/Kg dry	1.76	ND	66.6	40-140			
tyrene	1.50	0.18	mg/Kg dry	1.76	0.0862	80.0	40-140			
Surrogate: Nitrobenzene-d5	2.33		mg/Kg dry	3.53		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg dry	3.53		67.8	30-130			
Surrogate: p-Terphenyl-d14	3.50		mg/Kg dry	3.53		99.1	30-130			



Surrogate: 2-Fluorobiphenyl

Surrogate: p-Terphenyl-d14

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285209 - SW-846 3546										
Matrix Spike Dup (B285209-MSD1)	Source	e: 21G0035	5-20	Prepared: 07	7/02/21 Analy	zed: 07/08/	21			
Acenaphthene	1.01	0.18	mg/Kg dry	1.75	ND	57.4	40-140	6.65	30	
Acenaphthylene	1.07	0.18	mg/Kg dry	1.75	ND	61.2	40-140	5.26	30	
Anthracene	1.11	0.18	mg/Kg dry	1.75	ND	63.2	40-140	3.68	30	
Benzo(a)anthracene	1.15	0.18	mg/Kg dry	1.75	0.0554	62.3	40-140	7.82	30	
Benzo(a)pyrene	1.14	0.18	mg/Kg dry	1.75	0.103	59.1	40-140	4.47	30	
Benzo(b)fluoranthene	1.28	0.18	mg/Kg dry	1.75	0.206	61.6	40-140	1.94	30	
Benzo(g,h,i)perylene	1.03	0.18	mg/Kg dry	1.75	ND	58.5	40-140	17.9	30	
Benzo(k)fluoranthene	1.22	0.18	mg/Kg dry	1.75	0.0754	65.5	40-140	1.16	30	
Chrysene	1.13	0.18	mg/Kg dry	1.75	0.0561	61.5	40-140	6.83	30	
Dibenz(a,h)anthracene	0.961	0.18	mg/Kg dry	1.75	ND	54.8	40-140	19.8	30	
Fluoranthene	1.13	0.18	mg/Kg dry	1.75	0.0740	60.5	40-140	7.70	30	
Fluorene	1.02	0.18	mg/Kg dry	1.75	ND	58.4	40-140	6.93	30	
Indeno(1,2,3-cd)pyrene	1.06	0.18	mg/Kg dry	1.75	0.0820	55.9	40-140	18.1	30	
2-Methylnaphthalene	1.14	0.18	mg/Kg dry	1.75	ND	65.2	40-140	2.58	30	
Naphthalene	1.03	0.18	mg/Kg dry	1.75	ND	58.8	40-140	1.41	30	
Phenanthrene	1.13	0.18	mg/Kg dry	1.75	ND	64.5	40-140	3.96	30	
Pyrene	1.31	0.18	mg/Kg dry	1.75	0.0862	69.6	40-140	13.7	30	
Surrogate: Nitrobenzene-d5	2.26		mg/Kg dry	3.50		64.5	30-130			

mg/Kg dry

mg/Kg dry

3.50

3.50

66.8

90.3

30-130

30-130

2.34

3.16



Spike

Source

RPD

%REC

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285421 - SW-846 3540C										
Blank (B285421-BLK1)				Prepared: 07	//07/21 Analy	zed: 07/09/2	21			
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
croclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
aroclor-1268	ND	0.020	mg/Kg wet							
aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
urrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		90.8	30-150			
urrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			
urrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			
CS (B285421-BS1)				Prepared: 07	//07/21 Analy	yzed: 07/09/2	21			
aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.6	40-140			
aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140			
aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.4	40-140			
aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		69.0	40-140			
urrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg wet	0.200		78.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.6	30-150			
.CS Dup (B285421-BSD1)				Prepared: 07	//07/21 Analy	zed: 07/09/2	21			
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.2	40-140	3.07	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		73.1	40-140	4.51	30	
aroclor-1260	0.14	0.020	mg/Kg wet	0.200		71.8	40-140	6.31	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		65.5	40-140	5.13	30	
Surrogate: Decachlorobiphenyl	0.162		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.6	30-150			



QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285421 - SW-846 3540C										
Matrix Spike (B285421-MS1)	Sour	e: 21G0035	5-11	Prepared: 07	7/07/21 Analy	zed: 07/10/2	21			
Aroclor-1016	0.18	0.085	mg/Kg dry	0.213	ND	82.3	40-140			
Aroclor-1016 [2C]	0.14	0.085	mg/Kg dry	0.213	ND	65.7	40-140			
Aroclor-1260	0.14	0.085	mg/Kg dry	0.213	ND	67.7	40-140			
Aroclor-1260 [2C]	0.13	0.085	mg/Kg dry	0.213	ND	59.5	40-140			
Surrogate: Decachlorobiphenyl	0.172		mg/Kg dry	0.213		81.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg dry	0.213		70.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg dry	0.213		77.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.149		mg/Kg dry	0.213		70.0	30-150			
Matrix Spike Dup (B285421-MSD1)	Source	e: 21G0035	5-11	Prepared: 07	7/07/21 Analy:	zed: 07/10/2	21			
Aroclor-1016	0.17	0.085	mg/Kg dry	0.213	ND	80.0	40-140	2.82	50	
Aroclor-1016 [2C]	0.13	0.085	mg/Kg dry	0.213	ND	63.4	40-140	3.65	50	
Aroclor-1260	0.14	0.085	mg/Kg dry	0.213	ND	65.2	40-140	3.69	50	
Aroclor-1260 [2C]	0.12	0.085	mg/Kg dry	0.213	ND	57.2	40-140	3.83	50	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg dry	0.213		77.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.143		mg/Kg dry	0.213		67.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg dry	0.213		73.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.142		mg/Kg dry	0.213		66.9	30-150			



QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285208 - SW-846 3546										
Blank (B285208-BLK1)				Prepared: 07	//02/21 Anal	yzed: 07/06/	21			
ТРН (С9-С36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.42		mg/Kg wet	3.33		72.7	40-140			
LCS (B285208-BS1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/	21			
ТРН (С9-С36)	25.7	8.2	mg/Kg wet	32.9		78.1	40-140			
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.29		79.4	40-140			
LCS Dup (B285208-BSD1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/	21			
ТРН (С9-С36)	25.8	8.2	mg/Kg wet	33.0		78.2	40-140	0.491	25	
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.30		79.0	40-140			
Matrix Spike (B285208-MS1)	Sour	ce: 21G0035	5-03	Prepared: 07	7/02/21 Anal	yzed: 07/07/	21			
TPH (C9-C36)	73.3	9.1	mg/Kg dry	36.3	32.3	113	40-140			
Surrogate: 2-Fluorobiphenyl	1.89		mg/Kg dry	3.63		52.0	40-140			
Matrix Spike Dup (B285208-MSD1)	Sour	ce: 21G0035	5-03	Prepared: 07	//02/21 Anal	yzed: 07/07/	21			
ТРН (С9-С36)	73.8	9.0	mg/Kg dry	36.1	32.3	115	40-140	0.612	50	
Surrogate: 2-Fluorobiphenyl	1.91		mg/Kg dry	3.61		53.0	40-140			



Spike

Source

%REC

RPD

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
eatch B285206 - SW-846 3050B										
lank (B285206-BLK1)				Prepared: 07	//02/21 Anal	yzed: 07/06	/21			
ntimony	ND	1.6	mg/Kg wet	1 0,						
rsenic	ND	3.3	mg/Kg wet							
eryllium	ND	0.16	mg/Kg wet							
admium	ND	0.33	mg/Kg wet							
hromium	ND	0.66	mg/Kg wet							
opper	ND	0.66	mg/Kg wet							
ead	ND	0.49	mg/Kg wet							
ickel	ND	0.66	mg/Kg wet							
elenium		3.3	mg/Kg wet							
lver	ND	0.33	mg/Kg wet							
hallium	ND	1.6	mg/Kg wet							
inc	ND	0.66	mg/Kg wet							
inc	ND	0.00	mg/rxg wet							
CS (B285206-BS1)				Prepared: 07	//02/21 Analy	yzed: 07/07				
ntimony	133	5.0	mg/Kg wet	134		99.6	1.9-200.7			
rsenic	171	10	mg/Kg wet	170		101	82.9-117.6			
eryllium	143	0.50	mg/Kg wet	116		123	* 83.4-116.4			L-07
admium	104	1.0	mg/Kg wet	89.5		116	82.8-117.3			
hromium	122	2.0	mg/Kg wet	101		121	* 82.1-117.8			L-07
opper	169	2.0	mg/Kg wet	149		113	83.9-116.1			
ead	145	1.5	mg/Kg wet	140		103	82.9-117.1			
ickel	85.0	2.0	mg/Kg wet	68.3		124	* 82.1-117.7			L-07
elenium	201	10	mg/Kg wet	182		110	79.7-120.3			
lver	52.9	1.0	mg/Kg wet	50.1		106	80.2-120			
hallium	82.5	5.0	mg/Kg wet	87.7		94.0	81.1-118.6			
nc	262	2.0	mg/Kg wet	228		115	80.7-118.9			
CS Dup (B285206-BSD1)				Prepared: 07	//02/21 Analy	yzed: 07/07	/21			
ntimony	126	5.0	mg/Kg wet	134		94.2	1.9-200.7	5.54	30	
rsenic	169	10	mg/Kg wet	170		99.7	82.9-117.6	1.10	30	
eryllium	132	0.50	mg/Kg wet	116		114	83.4-116.4	7.48	30	
admium	97.2	1.0	mg/Kg wet	89.5		109	82.8-117.3	7.04	20	
hromium	112	2.0	mg/Kg wet	101		111	82.1-117.8	8.45	30	
opper	161	2.0	mg/Kg wet	149		108	83.9-116.1	4.57	30	
ead	146	1.5	mg/Kg wet	140		104	82.9-117.1	0.846	30	
ickel	79.8	2.0	mg/Kg wet	68.3		117	82.1-117.7	6.31	30	
elenium	198	10	mg/Kg wet	182		109	79.7-120.3	1.41	30	
ilver	53.4	1.0	mg/Kg wet	50.1		107	80.2-120	0.870	30	
hallium	78.1	5.0	mg/Kg wet	87.7		89.1	81.1-118.6	5.41	30	
nc	252	2.0	mg/Kg wet	228		111	80.7-118.9	4.02	30	
uplicate (B285206-DUP1)	Sou	rce: 21G0035	-18	Prepared: 07	//02/21 Analy	yzed: 07/06	/21			
ntimony	ND	1.8	mg/Kg dry		ND)		NC	35	
rsenic	ND	3.6	mg/Kg dry		ND			NC	35	
eryllium	0.213	0.18	mg/Kg dry		0.235			9.88	35	
admium	ND	0.36	mg/Kg dry		ND			NC	35	
nromium	3.85	0.72	mg/Kg dry		4.74			20.9	35	
opper	3.26	0.72	mg/Kg dry		3.71			13.0	35	
ead	1.62	0.54	mg/Kg dry		1.80			10.7	35	
ckel	2.60	0.72	mg/Kg dry		3.08			17.0	35	
elenium	2.60 ND	3.6	mg/Kg dry					NC	35	
	ND	5.0	mg/rsg ury		ND	,		110	33	
ilver	ND	0.36	mg/Kg dry		ND			NC	35	



QUALITY CONTROL

Metals Analyses (Total) - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285206 - SW-846 3050B										
Duplicate (B285206-DUP1)	Source	e: 21G0035	5-18	Prepared: 07	/02/21 Analy	zed: 07/06/2	.1			
Zinc	17.8	0.72	mg/Kg dry		19.0			6.48	35	
Matrix Spike (B285206-MS1)	Sourc	e: 21G0035	-18	Prepared: 07	/02/21 Analy	zed: 07/06/2	1			
Antimony	7.91	1.7	mg/Kg dry	17.4	0.706	41.4 *	75-125			MS-07
Arsenic	16.0	3.5	mg/Kg dry	17.4	1.92	80.7	75-125			
Beryllium	15.5	0.17	mg/Kg dry	17.4	0.235	87.9	75-125			
Cadmium	14.9	0.35	mg/Kg dry	17.4	ND	85.7	75-125			
Chromium	19.8	0.70	mg/Kg dry	17.4	4.74	86.4	75-125			
Copper	34.2	0.70	mg/Kg dry	34.8	3.71	87.7	75-125			
ead	16.2	0.52	mg/Kg dry	17.4	1.80	82.5	75-125			
Nickel	17.7	0.70	mg/Kg dry	17.4	3.08	84.2	75-125			
Selenium	11.4	3.5	mg/Kg dry	17.4	ND	65.8 *	75-125			MS-07
ilver	15.5	0.35	mg/Kg dry	17.4	ND	89.0	75-125			
Thallium Thallium	18.8	1.7	mg/Kg dry	17.4	ND	108	75-125			
line	50.9	0.70	mg/Kg dry	34.8	19.0	91.7	75-125			
deference (B285206-SRM1) MRL Check				Prepared: 07	/02/21 Analy:	zed: 07/06/2	.1			
ead	0.458	0.48	mg/Kg wet	0.481	-,-	95.1	80-120			
Batch B285207 - SW-846 3050B										
Blank (B285207-BLK1)		1.6	777	Prepared: 07	/02/21 Analyz	zed: 07/06/2	:1			
Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	3.2	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.32	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
Copper	ND	0.64	mg/Kg wet							
ead	ND	0.48	mg/Kg wet							
Vickel	ND	0.64	mg/Kg wet							
elenium	ND	3.2	mg/Kg wet							
Silver	ND									
Γhallium	ND	0.32	mg/Kg wet							
	ND	1.6	mg/Kg wet							
Zine	ND	1.6	mg/Kg wet	Prepared: 07	/02/21 Analy:	zed: 07/06/2	1			
Cinc .CS (B285207-BS1)	ND	1.6	mg/Kg wet	Prepared: 07	/02/21 Analyz	zed: 07/06/2 78.0	1.9-200.7			
Cinc CCS (B285207-BS1) Antimony	ND ND	1.6 0.64 5.0 9.9	mg/Kg wet mg/Kg wet		/02/21 Analy:					
Cinc CCS (B285207-BS1) Antimony Arsenic	ND ND	1.6 0.64	mg/Kg wet mg/Kg wet	134	/02/21 Analy:	78.0	1.9-200.7			
CCS (B285207-BS1) Antimony Arsenic Beryllium	ND ND 104 164	1.6 0.64 5.0 9.9	mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet	134 170	/02/21 Analy:	78.0 96.4	1.9-200.7 82.9-117.6			
CCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium	ND ND 104 164 106	1.6 0.64 5.0 9.9 0.50	mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet	134 170 116	/02/21 Analy:	78.0 96.4 91.0	1.9-200.7 82.9-117.6 83.4-116.4			
CCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium Chromium	ND ND 104 164 106 81.9	1.6 0.64 5.0 9.9 0.50 0.99	mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet	134 170 116 89.5	/02/21 Analy:	78.0 96.4 91.0 91.5	1.9-200.7 82.9-117.6 83.4-116.4 82.8-117.3			
Cinc CCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium Chromium Copper	ND ND 104 164 106 81.9 87.2	1.6 0.64 5.0 9.9 0.50 0.99 2.0	mg/Kg wet	134 170 116 89.5 101	/02/21 Analy:	78.0 96.4 91.0 91.5 86.4	1.9-200.7 82.9-117.6 83.4-116.4 82.8-117.3 82.1-117.8			
Cinc CCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium Chromium Copper Lead	ND ND 104 164 106 81.9 87.2 130	1.6 0.64 5.0 9.9 0.50 0.99 2.0 2.0	mg/Kg wet	134 170 116 89.5 101 149	/02/21 Analy:	78.0 96.4 91.0 91.5 86.4 87.5	1.9-200.7 82.9-117.6 83.4-116.4 82.8-117.3 82.1-117.8 83.9-116.1			
Cinc CCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Nickel	ND ND 104 164 106 81.9 87.2 130 142	1.6 0.64 5.0 9.9 0.50 0.99 2.0 2.0	mg/Kg wet	134 170 116 89.5 101 149 140	/02/21 Analy:	78.0 96.4 91.0 91.5 86.4 87.5	1.9-200.7 82.9-117.6 83.4-116.4 82.8-117.3 82.1-117.8 83.9-116.1 82.9-117.1			
Zinc LCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Selenium	ND ND 104 164 106 81.9 87.2 130 142 63.2 186	1.6 0.64 5.0 9.9 0.50 0.99 2.0 2.0 1.5 2.0	mg/Kg wet	134 170 116 89.5 101 149 140 68.3	/02/21 Analy:	78.0 96.4 91.0 91.5 86.4 87.5 101 92.6	1.9-200.7 82.9-117.6 83.4-116.4 82.8-117.3 82.1-117.8 83.9-116.1 82.9-117.1			
Cance CCS (B285207-BS1) Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Vickel Selenium Silver Challium	ND ND 104 164 106 81.9 87.2 130 142 63.2	1.6 0.64 5.0 9.9 0.50 0.99 2.0 2.0 1.5 2.0 9.9	mg/Kg wet	134 170 116 89.5 101 149 140 68.3 182	/02/21 Analy:	78.0 96.4 91.0 91.5 86.4 87.5 101 92.6 102	1.9-200.7 82.9-117.6 83.4-116.4 82.8-117.3 82.1-117.8 83.9-116.1 82.9-117.1 82.1-117.7 79.7-120.3			



QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285207 - SW-846 3050B										
LCS Dup (B285207-BSD1)				Prepared: 07	7/02/21 Analy	zed: 07/06	/21			
Antimony	99.8	5.0	mg/Kg wet	134		74.5	1.9-200.7	4.60	30	
Arsenic	170	10	mg/Kg wet	170		99.9	82.9-117.6	3.61	30	
Beryllium	102	0.50	mg/Kg wet	116		87.5	83.4-116.4	3.89	30	
Cadmium	80.0	1.0	mg/Kg wet	89.5		89.4	82.8-117.3	2.30	20	
Chromium	85.2	2.0	mg/Kg wet	101		84.3	82.1-117.8	2.41	30	
Copper	129	2.0	mg/Kg wet	149		86.4	83.9-116.1	1.31	30	
ead	147	1.5	mg/Kg wet	140		105	82.9-117.1	3.51	30	
fickel	61.2	2.0	mg/Kg wet	68.3		89.6	82.1-117.7	3.24	30	
elenium	190	10	mg/Kg wet	182		104	79.7-120.3	2.38	30	
ilver	42.9	1.0	mg/Kg wet	50.1		85.7	80.2-120	5.31	30	
hallium	82.9	5.0	mg/Kg wet	87.7		94.6	81.1-118.6	0.0225	30	
line	194	2.0	mg/Kg wet	228		84.9	80.7-118.9	1.30	30	
puplicate (B285207-DUP1)	Sou	rce: 21G0035	-01	Prepared: 07	7/02/21 Analy	zed: 07/06	/21			
ntimony	ND	1.7	mg/Kg dry		ND			NC	35	
rsenic	8.91	3.4	mg/Kg dry		3.45			88.4 *	35	R-04
eryllium	0.455	0.17	mg/Kg dry		0.269			51.5 *	35	R-04
admium	ND	0.34	mg/Kg dry		ND			NC	35	
hromium	11.1	0.68	mg/Kg dry		13.5			19.6	35	
opper	29.8	0.68	mg/Kg dry		22.1			29.7	35	
ead	60.8	0.51	mg/Kg dry		66.5			8.98	35	
ickel	6.89	0.68	mg/Kg dry		5.31			25.8	35	
elenium	ND	3.4	mg/Kg dry		ND			NC	35	
ilver	ND	0.34	mg/Kg dry		ND			NC	35	
hallium	ND	1.7	mg/Kg dry		ND			NC	35	
inc	36.8	0.68	mg/Kg dry		52.2			34.5	35	
Iatrix Spike (B285207-MS1)	Sou	rce: 21G0035	-01	Prepared: 07	7/02/21 Analy	zed: 07/06	/21			
ntimony	5.75	1.7	mg/Kg dry	17.2	ND	33.3	* 75-125			MS-07
rsenic	21.4	3.4	mg/Kg dry	17.2	3.45	104	75-125			
eryllium	13.7	0.17	mg/Kg dry	17.2	0.269	78.0	75-125			
admium	14.1	0.34	mg/Kg dry	17.2	ND	81.7	75-125			
Chromium	30.3	0.69	mg/Kg dry	17.2	13.5	97.2	75-125			
Copper	56.0	0.69	mg/Kg dry	34.5	22.1	98.4	75-125			
ead	86.1	0.52	mg/Kg dry	17.2	66.5	114	75-125			
lickel	18.8	0.69	mg/Kg dry	17.2	5.31	78.0	75-125			
elenium	13.3	3.4	mg/Kg dry	17.2	ND	77.1	75-125			
ilver	15.1	0.34	mg/Kg dry	17.2	ND	87.4	75-125			
'hallium	18.5	1.7	mg/Kg dry	17.2	ND	107	75-125			
line	75.3	0.69	mg/Kg dry	34.5	52.2	67.1	* 75-125			MS-07
eference (B285207-SRM1) MRL Check				Prepared: 07	7/02/21 Analy	zed: 07/06	/21			
ead	0.499	0.48	mg/Kg wet	0.478		104	80-120			



QUALITY CONTROL

Metals Analyses (Total) - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285230 - SW-846 7471										
Blank (B285230-BLK1)				Prepared: 07	7/02/21 Analy	zed: 07/00/	5/21			
Mercury	ND	0.025	mg/Kg wet							
LCS (B285230-BS1)				Prepared: 07	7/02/21 Analy	zed: 07/06/	5/21			
Mercury	14.2	0.76	mg/Kg wet	15.6		91.0	59.3-140.4			
LCS Dup (B285230-BSD1)				Prepared: 07	7/02/21 Analy	zed: 07/06/	5/21			
Mercury	14.4	0.75	mg/Kg wet	15.6		92.6	59.3-140.4	1.75	20	
Duplicate (B285230-DUP1)	Sour	rce: 21G0035	5-20	Prepared: 07	7/02/21 Analy	zed: 07/06/	5/21			
Mercury	ND	0.031	mg/Kg dry		ND			NC	20	
Matrix Spike (B285230-MS1)	Sour	rce: 21G0035	5-20	Prepared: 07	7/02/21 Analy	zed: 07/06/	5/21			
Mercury	0.432	0.028	mg/Kg dry	0.376	0.0272	108	80-120			
Batch B285231 - SW-846 7471										
Blank (B285231-BLK1)				Prepared: 07	7/02/21 Analy	zed: 07/07	7/21			
Mercury	ND	0.025	mg/Kg wet							
LCS (B285231-BS1)				Prepared: 07	7/02/21 Analy	zed: 07/07	7/21			
Mercury	14.6	0.74	mg/Kg wet	15.6		93.3	59.3-140.4			
LCS Dup (B285231-BSD1)				Prepared: 07/02/21 Analyzed: 07/07/21						
Mercury	16.1	0.76	mg/Kg wet	15.6		103	59.3-140.4	10.1	20	
Duplicate (B285231-DUP1)	Sour	rce: 21G0035	5-02	Prepared: 07	7/02/21 Analy	zed: 07/07	7/21			
Mercury	ND	0.029	mg/Kg dry		ND			NC	20	
Matrix Spike (B285231-MS1)	Sour	rce: 21G0035	5-02	Prepared: 07	7/02/21 Analy	zed: 07/07	7/21			
Mercury	0.428	0.029	mg/Kg dry	0.387	ND	111	80-120			<u> </u>



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS	

Lab Sample ID:	B285421-BS1		Date(s) Analyzed:	07/09/2021	07/09/2021	_
Instrument ID (1):	ECD4	_	Instrument ID (2):	ECD4		
GC Column (1):	ID:	(mm)	GC Column (2):		ID: (mm

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7.00.2112	002		FROM	TO	00110211111111111111	70111 2
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS	Dup	

Lab Sample ID:	B285421-BSD1		Date(s) Analyzed:	07/09/2021	07/09/2	021
Instrument ID (1):	ECD4		Instrument ID (2):	ECD4		_
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
7,10,12112	002	111	FROM TO		OONOLIVITUATION	70111 15
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

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Lab Sample ID:	B285421-MS1		Date(s) Analyzed:	07/10/2021	07/10/20)21
Instrument ID (1):			Instrument ID (2):			
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
7,10,12112	002	FROM TO		OONOLIVITUATION	/01 11 2	
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.14	25.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Sample ID:	B285421-MSD1		Date(s) Analyzed:	07/10/2021	07/10/2	2021
Instrument ID (1):			Instrument ID (2):			
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
7,07,2112	002	111	FROM	TO	OONOLIVITUUTION	701111111
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.13	26.7
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.12	15.4



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
O-25	Sample contamination consists of heavy residual hydrocarbons similar to asphalt.
O-26	Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Chromatogram does not match any reference standard.
Z-01a	Chromatogram shows the presence heavy hydrocarbons similar to motor oil.
Z-01b	Chromatogram shows the presence of weathered #2 diesel fuel as well as heavier hydrocarbons in the motor oil range.
Z-01c	The sample chromatographic pattern does not exhibit any fuel pattern



CERTIFICATIONS

Certified Analyses included in this Report

Bromodichloromethane

Certified Analyses included in this Report	
Analyte	Certifications
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	C1,111,111,11C,111L, 121
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Arcelor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C] Aroclor-1262	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	IVI,NC, VA,IA
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA

CT,NH,NY,ME,VA



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Bromoform	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME NY
1,2-Dibromo-3-chloropropane (DBCP)	
1,2-Dibromoethane (EDB) 1,2-Dibromoethane (EDB)	NH,NY NH,NY
Dibromomethane	NH,NY,ME,VA
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA



CERTIFICATIONS

Certified Analyses included in this Report

Indeno(1,2,3-cd)pyrene

Analyte	Certifications
SW-846 8260C-D in Soil	
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA

CT,NY,NH,ME,NC,VA



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications	
SW-846 8270D-E in Soil		
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA	
Naphthalene	CT,NY,NH,ME,NC,VA	
Phenanthrene	CT,NY,NH,ME,NC,VA	
Pyrene	CT,NY,NH,ME,NC,VA	
SW-846 8270D-E in Water		
Acenaphthene	CT,NY,NH,ME,NC,VA	
Acenaphthylene	CT,NY,NH,ME,NC,VA	
Anthracene	CT,NY,NH,ME,NC,VA	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA	
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA	
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA	
Chrysene	CT,NY,NH,ME,NC,VA	
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA	
Fluoranthene	CT,NY,NH,ME,NC,VA	
Fluorene	CT,NY,NH,ME,NC,VA	
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA	
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA	
Naphthalene	CT,NY,NH,ME,NC,VA	
Phenanthrene	CT,NY,NH,ME,NC,VA	
Pyrene	CT,NY,NH,ME,NC,VA	
Con-Test, a Pace Environmental Laborato	ory, operates under the following certifications and accreditations:	

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publile Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



PROJECT NAME

☐ 146 Hartford Road, Manchester, CT 06040

□ 56 Quarry Road, Trumbull, CT 06611

☐ 1419 Richland Street, Columbia, SC 29201

PROJECT LOCATION

□ 78 Interstate Drive, West Springfield, MA 01089

☑ 317 Iron Horse Way, Suite 204, Providence, RI 02908 □ 80 Washington Street, Suite 301, Poughkeepsie, NY

per client run PCBs via sox jlh 7/2/2021

□ Oil

2\60035CHAIN-OF-CUSTODY RECORD	37140
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	□ 24-Hour*	□ 72-Hour*		□ Other	(days)
	□ 48-Hour*	⋖ Standard (_	days)	*Surcharge Appli	es
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INVOICE 10;		l c	Request			
P.O. No.: 160330181545,810						
		P f 1				
Sampler's Signature: Medly John	Į.	Date: 624/4	. /			
MW=Monitoring Well PW=Potable Water T=T	reatment Facility S=So	il B=Sediment		/ / 3 / / / ,		
SW=Surface Water ST=Stormwater W=V	Waste $\Delta = Air$ $C = Cc$	oncrete	\8\n\		/ /z (5/6//	
X=Other			10/2			[\$\]\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\
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4 x	1 40-	910	XXXX	X	22	58-3
5 X	- 65	1004	XXXX	X	1 7	28-4
G X	- 06	6/01	XXXX		22	
7 V	- 67					S8-4.
8 x		639	XXXX		32	58-5
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Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: □ ClTax Exempt □ QA/QC □ Other	······································
1	Modely gar	Fto PNANLE	6/28/21	1536	Reporting and Detection Limit Requirements: RCP Deliverables MCP CAM Cert.	:
2	FEO FREDIGE	Ww sc	6/1121	1995	7(-0ec	
3	my ly		1/1/20		Additional Comments:	
4	Moles more	77.00	7/1/21	9:46	HOLD EXTRA SOJL FOR POTENTIAL TOLP.	
	march man	40 12m 20Hm	7/1/20	78	62A 1447	



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PAGE 20 OF 3 *Surcharge Applies LABORATORY 1237-40) □ Other Tumaround days) & Standard (_ □ 72-14our C 48-Hour* □ 24-Hour* 立0日 ## 317 Iron Horse Way, Suite 204, Providence, RI 02908 ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY 2081545,300 PROJECT NUMBER □ 78 Interstate Drive, West Springfield, MA 01089 ONT IN 子にあらてHAIN-OF-CUSTODY RECORD WONSacket, NJ □ 146 Hartford Road, Manchester, CT 06040 ☐ 1419 Richland Street, Columbia, SC 29201 PROJECT LOCATION ☐ 56 Quarry Road, Trumbull, CT ()6611 FUSS & O'NEILL (860) 646-2469 • www.FandO.com PROJECT NAME

TO IT TERNIT TO IN KANK Jonnments 3-0X Primited Indige 5- DN 700 58-> 1128 SR-) Marke HOW. Mend 38-6 S8-17 587 in ough Containers Made Cost 1 2000 ODE 6 1 6 6 d 6 6 1 16 -6 0 0 ત્ક メイメ メメ メメ REPORT TO: Madelyn Sampson (MSsampson@ Farte com) Analysis Invoice To: 1/28/21/07/19 1/2 1X ナナッシ とかり N30 K 583 800 1335 (200) (653 Sampled 0 B=Sediment Date: (1) 29 (2) Date Sampled である C=Concrete S=Soil Source Code 3 T=Treatment Facility
W=Waste A=Air V 2 9 2 7 عن (Sampler's Signature: TWall Jum Í Sample Number 1603210629-P.O. NO : 1603 2015 1545. VB 7/9 playen STREET MW=Monitoring Well PW=Potable Water SW=Surface Water ST=Stormwater TRIFF BCKNIK Transfer Check X × × Source Codes: N=Other Item 9 مح 9 ŝ 0 7

Transfer Number	Relinquished By	Accepted By	Date Time	Charge Exceptions: Charge Exception: Charge Exception: Charge Exception: Charge Excep
-	milk 31	5-to firt066	1 1 1 1 1 2 X	6 3821 8 30 Reporting and Detection Limit Requirements. © RCP Deliverables © MCP CAM Gen.
C	Marke Jen	PHOTORE	6/29/21/1930	J. L. 16.6
3	たったよったよ	Male for	11/21 of 45	DILLAN OF YE Additional Comments:
4	, Mila Gra	Trader From	1/1219:46 Year	
1	Smaller France	THE DE DON'T	7/12/243 PM	you was

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client	Fire	, + O'Wezll							
Receiv		gue		Date	711/2	21	Time	1447	***************************************
How were th	ne samples	In Cooler	1	No Cooler		On Ice	1	No Ice	
recei	ved?	Direct from Samp	oling			Ambient		Melted Ice	
Were sam	nles within		By Gun #	5		Actual Tem	p- 20, И	- .나	***************************************
Temperatu		T	By Blank #			Actual Tem			-
	Custody S	eal Intact?	nla	We	re Sample	s Tampered		nla	
	COC Relin		T		Chain Ag	ree With Sa	mples?		_
		eaking/loose caps	on any sam		F	9			_
Is COC in in			M. Drowning		nples recei		olding time?	<u> </u>	
Did COC i		Client		Analysis		The same and the s	er Name	T	-
3.5		Project dout and legible?		ID's		Collection	Dates/Times	<u> </u>	-
Are there La		, 1 15			Who was	s notified?			
Are there Ru			F			s notified?			_
Are there Sh		•				s notified?			•
is there enou	ugh Volume	?							-
Is there Hea	dspace whe	ere applicable?	na		MS/MSD?	F			
Proper Medi	a/Container	s Used?			ls splitting	samples red	uired?	F	
Were trip blanks received? On COC? F							=		
Do all sampl	es have the	proper pH?		Acid	nla		Base	na	_
	iel fortifre i relementarementet verser versene er								
springlet explanation between the althought expressible above above and expression.	- #	Gallantes	- (#			#
Unp-	#	1 Liter Amb.	1	1 Liter I		i,		: Amb.	
Vials Unp- HCL-	*	1 Liter Amb. 500 mL Amb.	J	500 mL	Plastic	#	8oz Am	nb/Clear	40
Unp- HCL- Meoh-	26	1 Liter Amb. 500 mL Amb. 250 mL Amb.	*	500 mL 250 mL	Plastic Plastic	***************************************	8oz Am 4oz Am	nb/Clear nb/Clear	
Unp- HCL- Meoh- Bisulfate-		1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint		500 mL 250 mL Col./Ba	Plastic Plastic icteria	*	8oz Am 4oz Am 2oz Am	nb/Clear nb/Clear nb/Clear	
Unp- HCL- Meoh- Bisulfate- DI-	26 40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass		500 mL 250 mL Col./Ba Other F	Plastic Plastic Incteria Plastic	*	8oz Am 4oz Am 2oz Am End	nb/Clear nb/Clear nb/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-		1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint	#	500 mL 250 mL Col./Ba	Plastic Plastic ecteria Plastic Bag		8oz Am 4oz Am 2oz Am End	nb/Clear nb/Clear nb/Clear core	
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-		1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit	*	500 mL 250 mL Col./Ba Other F Plastic	Plastic Plastic Interior Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic	*	8oz Am 4oz Am 2oz Am End	nb/Clear nb/Clear nb/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL 250 mL Col./Ba Other F Plastic Ziplo	Plastic Plastic Interior Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic	*	8oz Am 4oz Am 2oz Am End	nb/Clear nb/Clear nb/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate		500 mL 250 mL Col./Ba Other F Plastic Ziplo	Plastic Plastic Interior Plastic	*	8oz Am 4oz Am 2oz Am End Frozen: 77	nb/Clear nb/Clear nb/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb.		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL	Plastic Plastic Interior Plastic Plastic Plastic Plastic Plastic Plastic Plastic		8oz Am 4oz Am 2oz Am End Frozen: 7/	nb/Clear nb/Clear nb/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb.		500 mL 250 mL Col./Ba Other F Plastic Ziple Unused N 1 Liter F 500 mL 250 mL	Plastic Plastic Conteria Plastic Bag Cock Plastic Plastic Plastic Plastic Plastic		8oz Am 4oz Am 2oz Am Enc Frozen: +7	hb/Clear hb/Clear hb/Clear core 11/21 @ Amb. hb/Clear	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria		500 mL 250 mL Col./Ba Other F Plastic Ziple Unused N 1 Liter F 500 mL 250 mL Flash	Plastic Plastic Cteria Plastic Bag Ock Pledia Plastic Plastic Plastic Plastic Point		8oz Am 4oz Am 2oz Am Enc Frozen: +7	Amb. ab/Clear ab/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flash Other G	Plastic Plastic cteria Plastic Bag ock ledia Plastic Plastic Plastic Plastic Plastic Soint Glass		8oz Am 4oz Am 2oz Am End Frozen: 7/	hb/Clear hb/Clear hb/Clear core 11/21 @ Amb. hb/Clear	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	40	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flash Other G Plastic	Plastic Plastic cteria Plastic Bag ock Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Bag Service Plastic	*	8oz Am 4oz Am 2oz Am Enc Frozen: +7	Amb. ab/Clear ab/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	4 0	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flash Other G	Plastic Plastic cteria Plastic Bag ock Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Bag Service Plastic		8oz Am 4oz Am 2oz Am End Frozen: 7/	Amb. ab/Clear ab/Clear core	ЦD
Unp-	4 0	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flash Other G Plastic	Plastic Plastic cteria Plastic Bag ock Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Bag Service Plastic		8oz Am 4oz Am 2oz Am End Frozen: 7/	Amb. ab/Clear ab/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	4 0	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flash Other G Plastic	Plastic Plastic cteria Plastic Bag ock Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Bag Service Plastic		8oz Am 4oz Am 2oz Am End Frozen: 7/	Amb. ab/Clear ab/Clear core	ЦD
Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	4 0	1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flash Other G Plastic	Plastic Plastic cteria Plastic Bag ock Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Plastic Bag Service Plastic		8oz Am 4oz Am 2oz Am End Frozen: 7/	Amb. ab/Clear ab/Clear core	ЦD



July 14, 2021

Madelyn Sampson Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908

Project Location: 719 River St, Woonsocket, RI

Client Job Number:

Project Number: 20181545.B10

Laboratory Work Order Number: 21G0036

Jessica Hoffman

Enclosed are results of analyses for samples received by the laboratory on July 1, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman Project Manager

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Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/14/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0036

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 719 River St, Woonsocket, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210629-21	21G0036-01	Soil	SB-13	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210629-22	21G0036-02	Trip Blank Soil	Trip Blanks	SW-846 8260C-D	
1603210629-23	21G0036-03	Soil	MW-14	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210630-24	21G0036-04	Soil	MW-14	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210630-25	21G0036-05	Soil	MW-15	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210630-26	21G0036-06	Soil	MW-15	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	



Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/14/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0036

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 719 River St, Woonsocket, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210630-27	21G0036-07	Soil	SB-16	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210630-28	21G0036-08	Soil	SB-16	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
1603210630-29	21G0036-09	Trip Blank Soil	Trip Blank	SW-846 8260C-D	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 07-14-21: Due to a lab reporting error, the thallium results for samples 21G0036-01, 21G0036-03-08 have been revised with the correct values.

For method 8270E, only PAHs were requested and reported.



SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Beryllium

B285206-BS1

Chromium

B285206-BS1

Nickel

B285206-BS1

SW-846 8015C

Qualifications:

O-26

Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.

Analyte & Samples(s) Qualified:

21G0036-07[1603210630-27], 21G0036-08[1603210630-28]

SW-846 8260C-D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side. Analyte & Samples(s) Qualified:

Bromomethane

B285252-BS1, B285252-BSD1

Methyl Acetate

B285252-BS1, B285252-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Trichlorofluoromethane (Freon 11)

21G0036-06[1603210630-26], 21G0036-07[1603210630-27], 21G0036-08[1603210630-28], 21G0036-09[1603210630-29], B285252-BLK1, B285252-BSD1, B285

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Bromochloromethane

B285252-BS1



V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene

21G0036-06[1603210630-26], 21G0036-07[1603210630-27], 21G0036-08[1603210630-28], 21G0036-09[1603210630-29], B285252-BK1, B285252-BS1, B285252-BS1,S061205-CCV1

1.2.3-Trichlorobenzene

21G0036-06[1603210630-26], 21G0036-07[1603210630-27], 21G0036-08[1603210630-28], 21G0036-09[1603210630-29], B285252-BLK1, B285252-BS1, B285252-BSD1, S061205-CCV1

Carbon Disulfide

21G0036-06[1603210630-26], 21G0036-07[1603210630-27], 21G0036-08[1603210630-28], 21G0036-09[1603210630-29], B285252-BK1, B285252-BS1, B285252-BS1,

Trichlorofluoromethane (Freon 11)

21G0036-06[1603210630-26], 21G0036-07[1603210630-27], 21G0036-08[1603210630-28], 21G0036-09[1603210630-29], B285252-BK1, B285252-BS1, B285252-BS1,S061205-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. Analyte & Samples(s) Qualified:

Bromochloromethane

B285252-BS1, B285252-BSD1, S061205-CCV1

Bromomethane

B285252-BS1, B285252-BSD1, S061205-CCV1

Methyl Acetate

B285252-BS1, B285252-BSD1, S061205-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Technical Representative

na Watslengton



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Acrylonitrile	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Bromomethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
tert-Butyl Alcohol (TBA)	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Chlorodibromomethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Chloromethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2-Dibromoethane (EDB)	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1	. 05	SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,3-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
2,2-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1-Dichloropropene	ND ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
cis-1,3-Dichloropropene	ND ND	0.0019				SW-846 8260C-D SW-846 8260C-D		7/2/21 15:50	MFF
trans-1,3-Dichloropropene		0.00094	mg/Kg dry	1			7/2/21		
	ND		mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Toluene-d8 4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

		VO	latile Organic Com	pounus by G	C/NIS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,4-Dioxane	ND	0.094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Methyl Acetate	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Methyl Cyclohexane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Tetrahydrofuran	ND	0.0094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,3,5-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0094	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Vinyl Chloride	ND	0.0094	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 15:50	MFF
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
1,2-Dichloroethane-d4		107	70-130		<u> </u>			7/2/21 15:50	

108

106

70-130

70-130

7/2/21 15:50

7/2/21 15:50



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Anthracene	0.22	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Benzo(a)anthracene	1.4	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Benzo(a)pyrene	1.5	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Benzo(b)fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Benzo(g,h,i)perylene	1.2	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Benzo(k)fluoranthene	0.95	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Chrysene	1.8	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Dibenz(a,h)anthracene	0.31	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Fluoranthene	2.8	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Phenanthrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Pyrene	2.7	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 19:56	BGL
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Nitrobenzene-d5		56.2	30-130					7/8/21 19:56	
2-Fluorobiphenyl		54.7	30-130					7/8/21 19:56	
p-Terphenyl-d14		71.2	30-130					7/8/21 19:56	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 17:46	JMB
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		84.6	30-150					7/9/21 17:46	
Decachlorobiphenyl [2]		86.5	30-150					7/9/21 17:46	
Tetrachloro-m-xylene [1]		88.1	30-150					7/9/21 17:46	
Tetrachloro-m-xylene [2]		87.9	30-150					7/9/21 17:46	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	370	19	mg/Kg dry	2	O-26	SW-846 8015C	7/2/21	7/8/21 1:20	SFM
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		55.8	40-140					7/8/21 1:20	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Metals Analyses (Total)

				•	, ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	МЈН
Arsenic		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Beryllium		0.33	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Cadmium		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Chromium		9.2	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Copper		16	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Lead		62	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Mercury		0.079	0.033	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:13	CJV
Nickel		8.5	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Selenium		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Silver		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH
Zinc		70	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:27	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-13 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-21 Sampled: 6/29/2021 12:53

Sample ID: 21G0036-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		89.9		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: Trip Blanks Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-22 Sampled: 6/29/2021 14:30

Sample ID: 21G0036-02
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
trans-1,3-Dichloropropene									



Project Location: 719 River St, Woonsocket, RI Sample Description: Trip Blanks Work Order: 21G0036

Date Received: 7/1/2021

4-Bromofluorobenzene

Field Sample #: 1603210629-22 Sampled: 6/29/2021 14:30

Sample ID: 21G0036-02
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet	1	riag/Quai	SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,4-Dioxane	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Hexachlorobutadiene	ND ND	0.0020		1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
2-Hexanone (MBK)	ND ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Isopropylbenzene (Cumene)	ND ND	0.020	mg/Kg wet				7/2/21		MFF
p-Isopropyltoluene (p-Cymene)			mg/Kg wet	1		SW-846 8260C-D		7/2/21 12:39	
Methyl Acetate	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
•	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 12:39	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					7/2/21 12:39	

106

113

70-130

70-130

7/2/21 12:39

7/2/21 12:39



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Acrylonitrile	ND	0.0060	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Toluene-d8

Volatile Organic Compounds by GC/MS

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Methyl Acetate	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:19	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				

107

107

108

70-130

70-130

70-130

7/2/21 16:19

7/2/21 16:19

7/2/21 16:19



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Anthracene	0.33	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Benzo(a)anthracene	1.2	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Benzo(a)pyrene	1.1	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Benzo(b)fluoranthene	1.4	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Benzo(g,h,i)perylene	0.70	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Benzo(k)fluoranthene	0.52	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Chrysene	1.1	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Fluoranthene	2.4	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Indeno(1,2,3-cd)pyrene	0.79	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Phenanthrene	1.7	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Pyrene	2.3	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:24	BGL
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
Nitrobenzene-d5		76.1	30-130					7/8/21 20:24	
2-Fluorobiphenyl		73.5	30-130					7/8/21 20:24	
p-Terphenyl-d14		94.7	30-130					7/8/21 20:24	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Aroclor-1232 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1242 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1248 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0			-							
Aroclor-1016 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1221 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1232 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1242 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1242 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1248 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0	Analyte	Results	RL.	Units	Dilution	Flag/Qual	Method			Analyst
Aroclor-1221 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1232 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1242 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1248 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1269 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0						1 mg/ 2 mm				
Aroclor-1232 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1242 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1248 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0	Arocior-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7///21	7/9/21 18:03	JMB
Aroclor-1242 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1248 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Decachlorobiphenyl [1] 86.4 30-150 7/9/21 18:03 Decachlorobiphenyl [2] 84.2 30-150 7/9/21 18:03 Tetrachloro-m-xylene [1] 89.0 30-150 7/9/21 18:03	Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Aroclor-1248 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Decachlorobiphenyl [1] 86.4 30-150 Decachlorobiphenyl [2] 84.2 30-150 Decachlorom-xylene [1] 89.0 30-150 T/9/21 18:03 T/9/21 18:03	Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Aroclor-1254 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Surrogates	Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Aroclor-1260 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Surrogates Recovery Limits Flag/Qual Decachlorobiphenyl [1] 86.4 30-150 Decachlorobiphenyl [2] 84.2 30-150 Tetrachloro-m-xylene [1] 89.0 30-150 Total Recovery Limits Recovery Recovery Recovery Limits Recovery Recovery Recovery Limits Recovery	Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Aroclor-1262 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Surrogates Recovery Limits Flag/Qual Decachlorobiphenyl [1] 86.4 30-150 Decachlorobiphenyl [2] 84.2 30-150 Fetrachloro-m-xylene [1] 89.0 30-150 Total Control of the surrogate	Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Aroclor-1268 [1] ND 0.086 mg/Kg dry 4 SW-846 8082A 7/7/21 7/9/21 18:03 JMB Surrogates Recovery Limits Flag/Qual	Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Surrogates % Recovery Recovery Limits Flag/Qual Decachlorobiphenyl [1] 86.4 30-150 7/9/21 18:03 Decachlorobiphenyl [2] 84.2 30-150 7/9/21 18:03 Tetrachloro-m-xylene [1] 89.0 30-150 7/9/21 18:03	Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Decachlorobiphenyl [1] 86.4 30-150 7/9/21 18:03 Decachlorobiphenyl [2] 84.2 30-150 7/9/21 18:03 Tetrachloro-m-xylene [1] 89.0 30-150 7/9/21 18:03	Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:03	JMB
Decachlorobiphenyl [2] 84.2 30-150 7/9/21 18:03 Tetrachloro-m-xylene [1] 89.0 30-150 7/9/21 18:03	Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Tetrachloro-m-xylene [1] 89.0 30-150 7/9/21 18:03	Decachlorobiphenyl [1]		86.4	30-150					7/9/21 18:03	
, ,	Decachlorobiphenyl [2]		84.2	30-150					7/9/21 18:03	
Fetrachloro-m-xylene [2] 89.3 30-150 7/9/21 18:03	Tetrachloro-m-xylene [1]		89.0	30-150					7/9/21 18:03	
	Tetrachloro-m-xylene [2]		89.3	30-150					7/9/21 18:03	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
TPH (C9-C36)	190	18	mg/Kg dry	2	O-26	SW-846 8015C	7/2/21	7/8/21 1:41	SFM
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
2-Fluorobiphenyl	·	63.2	40-140			·		7/8/21 1:41	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

Metals Analyses (Total)

				•	, ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	МЈН
Arsenic		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Beryllium		0.32	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Cadmium		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Chromium		16	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Copper		22	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Lead		57	0.53	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Mercury		0.057	0.028	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:15	CJV
Nickel		7.8	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Selenium		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Silver		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH
Zinc		52	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:45	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210629-23 Sampled: 6/29/2021 07:12

Sample ID: 21G0036-03
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		92.6		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Diethyl Ether	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Methyl Acetate	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Methyl Cyclohexane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 16:47	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		104	70-130					7/2/21 16:47	

70-130

70-130

7/2/21 16:47

7/2/21 16:47

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Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

			8						
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Benzo(a)anthracene	0.57	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Benzo(a)pyrene	0.61	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Benzo(b)fluoranthene	0.74	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Benzo(g,h,i)perylene	0.44	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Benzo(k)fluoranthene	0.29	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Chrysene	0.56	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Indeno(1,2,3-cd)pyrene	0.43	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Phenanthrene	0.73	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Pyrene	1.2	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 20:51	BGL
Surrogates		% Recovery	Recovery Limits	5	Flag/Qual				
Nitrobenzene-d5		68.5	30-130					7/8/21 20:51	
2-Fluorobiphenyl		70.0	30-130					7/8/21 20:51	
p-Terphenyl-d14		89.5	30-130					7/8/21 20:51	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

		•							
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
-	Results	KL	Cints	Dilution	riag/Quai	Michiga	Ттератец	Anaryzeu	Amaryst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:21	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					7/9/21 18:21	
Decachlorobiphenyl [2]		82.2	30-150					7/9/21 18:21	
Tetrachloro-m-xylene [1]		90.3	30-150					7/9/21 18:21	
Tetrachloro-m-xylene [2]		90.8	30-150					7/9/21 18:21	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	430	18	mg/Kg dry	2	O-26	SW-846 8015C	7/2/21	7/8/21 2:02	SFM
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobinhenyl		61.4	40-140					7/8/21 2:02	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

Metals Analyses (Total)

				Metals Analy	ses (10tal)					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	МЈН
Arsenic		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Beryllium		0.26	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Cadmium		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Chromium		12	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Copper		14	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Lead		11	0.52	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Mercury		0.071	0.028	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:16	CJV
Nickel		7.3	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Selenium		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Silver		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Thallium		ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH
Zinc		32	0.70	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:52	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-14 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-24 Sampled: 6/29/2021 07:22

Sample ID: 21G0036-04
Sample Matrix: Soil

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		92.8		% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Acrylonitrile	ND	0.0064	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Toluene-d8

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flac/Ossal	Method	Date	Date/Time	A I
Diisopropyl Ether (DIPE)	ND	0.0011		1	Flag/Qual	SW-846 8260C-D	Prepared	Analyzed	Analyst
1,4-Dioxane	ND ND	0.0011	mg/Kg dry	1		SW-846 8260C-D SW-846 8260C-D	7/2/21 7/2/21	7/2/21 17:16	MFF MFF
Ethylbenzene			mg/Kg dry					7/2/21 17:16	
•	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methyl Acetate	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methyl Cyclohexane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:16	MFF
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				

106

107

106

70-130

70-130

70-130

7/2/21 17:16

7/2/21 17:16

7/2/21 17:16



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Benzo(a)anthracene	0.54	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Benzo(a)pyrene	0.46	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Benzo(b)fluoranthene	0.62	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Benzo(g,h,i)perylene	0.28	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Benzo(k)fluoranthene	0.23	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Chrysene	0.53	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Indeno(1,2,3-cd)pyrene	0.32	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Phenanthrene	0.76	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Pyrene	1.1	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:19	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		78.6	30-130					7/8/21 21:19	
2-Fluorobiphenyl		80.8	30-130					7/8/21 21:19	
p-Terphenyl-d14		109	30-130					7/8/21 21:19	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1254 [2]	0.28	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:39	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		85.8	30-150					7/9/21 18:39	
Decachlorobiphenyl [2]		84.6	30-150					7/9/21 18:39	
Tetrachloro-m-xylene [1]		85.6	30-150					7/9/21 18:39	
Tetrachloro-m-xylene [2]		85.0	30-150					7/9/21 18:39	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	190	9.0	mg/Kg dry	1	O-26	SW-846 8015C	7/2/21	7/7/21 20:28	SFM
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl		65.5	40-140					7/7/21 20:28	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

Metals Analyses (Total)

				•	, ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	МЈН
Arsenic		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Beryllium		0.51	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Cadmium		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Chromium		16	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Copper		21	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Lead		43	0.52	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Mercury		0.14	0.031	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:18	CJV
Nickel		8.8	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Selenium		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Silver		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Thallium		ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH
Zinc		56	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 21:59	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-25 Sampled: 6/29/2021 08:12

Sample ID: 21G0036-05
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)										
							Date	Date/Time		
	Analyte	Results RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst	
% Solids		92.2	% Wt	1		SM 2540G	7/2/21	7/3/21 9:40	JML	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Acrylonitrile	ND	0.0084	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Bromochloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Bromoform	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
2-Butanone (MEK)	ND	0.056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
tert-Butyl Alcohol (TBA)	ND	0.14	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Carbon Disulfide	ND	0.0084	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Chloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Chloroform	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
trans-1,4-Dichloro-2-butene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1-Dichloroethylene	ND	0.0056	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
cis-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1	V 03	SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,3-Dichloropropane	ND ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
2,2-Dichloropropane	ND ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1-Dichloropropene	ND ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
cis-1,3-Dichloropropene	ND ND	0.0028		1		SW-846 8260C-D SW-846 8260C-D		7/2/21 17:43	MFF
trans-1,3-Dichloropropene		0.0014	mg/Kg dry				7/2/21		MFF
	ND		mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	
Diethyl Ether	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,4-Dioxane	ND	0.14	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Methyl Acetate	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Methyl Cyclohexane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Methylene Chloride	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Naphthalene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,3,5-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1,2-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Trichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
m+p Xylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 17:43	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.2	70-130		7/2/21 17:43
Toluene-d8	105	70-130		7/2/21 17:43
4-Bromofluorobenzene	106	70-130		7/2/21 17:43



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

			· ·						
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Benzo(a)anthracene	0.23	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Benzo(a)pyrene	0.23	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Benzo(b)fluoranthene	0.30	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Chrysene	0.25	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Fluoranthene	0.42	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Phenanthrene	0.33	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Pyrene	0.46	0.21	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 21:46	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		41.8	30-130					7/8/21 21:46	
2-Fluorobiphenyl		41.7	30-130					7/8/21 21:46	
p-Terphenyl-d14		58.7	30-130					7/8/21 21:46	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 18:57	JMB
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Decachlorobiphenyl [1]		82.4	30-150					7/9/21 18:57	
Decachlorobiphenyl [2]		79.8	30-150					7/9/21 18:57	
Tetrachloro-m-xylene [1]		84.3	30-150					7/9/21 18:57	
Tetrachloro-m-xylene [2]		85.6	30-150					7/9/21 18:57	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	120	10	mg/Kg dry	1	O-26	SW-846 8015C	7/2/21	7/7/21 20:08	SFM
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobinhenyl		41.4	40-140					7/7/21 20:08	



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

			Metals Analy	yses (Total)					
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	МЈН
Arsenic	11	4.0	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Beryllium	0.29	0.20	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Cadmium	ND	0.40	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Chromium	20	0.80	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Copper	15	0.80	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Lead	23	0.60	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Mercury	0.046	0.030	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:25	CJV
Nickel	7.9	0.80	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	MJH
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	МЈН
Zinc	36	0.80	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:06	МЈН



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-15 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-26 Sampled: 6/29/2021 08:26

Sample ID: 21G0036-06
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		82.6		% Wt	1		SM 2540G	7/2/21	7/3/21 9:41	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Acrylonitrile	ND	0.0067	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Carbon Disulfide	ND	0.0067	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,3-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
2,2-Dichloropropane	ND ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1-Dichloropropene		0.0022						7/2/21 18:10	
* *	ND ND		mg/Kg dry	1		SW-846 8260C-D	7/2/21		MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Methyl Acetate	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Methyl Cyclohexane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:10	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		99.7	70-130					7/2/21 18:10	

70-130

70-130

113

106

7/2/21 18:10

7/2/21 18:10



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

			_						
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Benzo(b)fluoranthene	0.19	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Fluoranthene	0.32	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Phenanthrene	0.24	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Pyrene	0.33	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:13	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		60.2	30-130					7/8/21 22:13	
2-Fluorobiphenyl		64.4	30-130					7/8/21 22:13	
p-Terphenyl-d14		91.1	30-130					7/8/21 22:13	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Aroclor-1016 [1] ND 0.087 mg/Kg dry 4 SW-4 Aroclor-1221 [1] ND 0.087 mg/Kg dry 4 SW-4 Aroclor-1232 [1] ND 0.087 mg/Kg dry 4 SW-4	Method Prepa -846 8082A 7/7/2 -846 8082A 7/7/2 -846 8082A 7/7/2	Analyzed 21 7/9/21 19:14 21 7/9/21 19:14	Analyst JMB
Aroclor-1016 [1] ND 0.087 mg/Kg dry 4 SW-4 Aroclor-1221 [1] ND 0.087 mg/Kg dry 4 SW-4 Aroclor-1232 [1] ND 0.087 mg/Kg dry 4 SW-4	-846 8082A 7/7/2 -846 8082A 7/7/2 -846 8082A 7/7/2	7/9/21 19:14 21 7/9/21 19:14	JMB
Aroclor-1221 [1] ND 0.087 mg/Kg dry 4 SW-8 Aroclor-1232 [1] ND 0.087 mg/Kg dry 4 SW-8	-846 8082A 7/7/2 -846 8082A 7/7/2	21 7/9/21 19:14	
Aroclor-1232 [1] ND 0.087 mg/Kg dry 4 SW-5	-846 8082A 7/7/2		JMB
The state of the s		21 7/9/21 19:14	
Aroclor-1242 [1] ND 0.087 mg/Kg dry 4 SW-1			JMB
ingrigary .	-846 8082A 7/7/2	21 7/9/21 19:14	JMB
Aroclor-1248 [1] ND 0.087 mg/Kg dry 4 SW-	-846 8082A 7/7/2	21 7/9/21 19:14	JMB
Aroclor-1254 [1] ND 0.087 mg/Kg dry 4 SW-	-846 8082A 7/7/2	21 7/9/21 19:14	JMB
Aroclor-1260 [1] ND 0.087 mg/Kg dry 4 SW-	-846 8082A 7/7/2	21 7/9/21 19:14	JMB
Aroclor-1262 [1] ND 0.087 mg/Kg dry 4 SW-	-846 8082A 7/7/2	21 7/9/21 19:14	JMB
Aroclor-1268 [1] ND 0.087 mg/Kg dry 4 SW-	-846 8082A 7/7/2	21 7/9/21 19:14	JMB
Surrogates % Recovery Recovery Limits Flag/Qual			
Decachlorobiphenyl [1] 88.6 30-150		7/9/21 19:14	
Decachlorobiphenyl [2] 86.2 30-150		7/9/21 19:14	
Tetrachloro-m-xylene [1] 85.0 30-150		7/9/21 19:14	ŀ
Tetrachloro-m-xylene [2] 86.0 30-150		7/9/21 19:14	r



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	53	9.1	mg/Kg dry	1	O-26	SW-846 8015C	7/2/21	7/8/21 0:59	SFM
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
2-Fluorobiphenyl		64.4	40-140			·		7/8/21 0:59	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

Metals Analyses (Total)

				111Ctals 1 thaty	ses (Total)					
	Analyte R	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	МЈН
Arsenic		5.6	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Beryllium		0.27	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Cadmium		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Chromium		10	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Copper		12	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Lead		54	0.53	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Mercury		ND	0.030	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:26	CJV
Nickel		6.6	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Selenium		ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Silver		ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Thallium		ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH
Zinc		39	0.71	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:13	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-27 Sampled: 6/29/2021 09:52

Sample ID: 21G0036-07
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		91.9		% Wt	1		SM 2540G	7/2/21	7/3/21 9:41	JML



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Acrylonitrile	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
tert-Butyl Alcohol (TBA)	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Carbon Disulfide	ND	0.0071	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Diethyl Ether	ND	0.024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

4-Bromofluorobenzene

Volatile Organic Compounds by GC/MS

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Methyl Acetate	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Methyl Cyclohexane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,3,5-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1	. ,	SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 18:37	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					7/2/21 18:37	

106

108

70-130

70-130

7/2/21 18:37

7/2/21 18:37



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/8/21 22:40	BGL
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
Nitrobenzene-d5		74.0	30-130					7/8/21 22:40	
2-Fluorobiphenyl		75.7	30-130					7/8/21 22:40	
p-Terphenyl-d14		110	30-130					7/8/21 22:40	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Anabata	Dlt-	RL	TI	D:14:	Fl/01	M-4b-d	Date	Date/Time	A I
Analyte	Results	KL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/7/21	7/9/21 19:32	JMB
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		81.7	30-150					7/9/21 19:32	
Decachlorobiphenyl [2]		79.8	30-150					7/9/21 19:32	
Tetrachloro-m-xylene [1]		82.6	30-150					7/9/21 19:32	
Tetrachloro-m-xylene [2]		82.7	30-150					7/9/21 19:32	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	29	8.7	mg/Kg dry	1	O-26	SW-846 8015C	7/2/21	7/7/21 19:47	SFM
Surrogates		% Recovery	Recovery Limits	6	Flag/Qual				
2-Fluorobiphenyl		75.3	40-140					7/7/21 19:47	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

Metals Analyses (Total)

				•	, , ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimor	ny	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	МЈН
Arsenic		ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Berylliu	m	0.19	0.17	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Cadmiu	m	ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Chromiu	ım	8.1	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Copper		6.2	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Lead		7.6	0.52	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Mercury		ND	0.030	mg/Kg dry	1		SW-846 7471B	7/2/21	7/6/21 13:28	CJV
Nickel		5.1	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Seleniun	n	ND	3.5	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Silver		ND	0.35	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Thalliun	1	ND	1.7	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH
Zinc		18	0.69	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 22:20	MJH



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-16 Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-28 Sampled: 6/29/2021 09:54

Sample ID: 21G0036-08
Sample Matrix: Soil

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		95.8		% Wt	1		SM 2540G	7/2/21	7/3/21 9:41	JML

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)



Project Location: 719 River St, Woonsocket, RI Sample Description: Trip Blank Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-29 Sampled: 6/29/2021 11:45

Sample ID: 21G0036-09
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF



Project Location: 719 River St, Woonsocket, RI Sample Description: Trip Blank Work Order: 21G0036

Date Received: 7/1/2021

Field Sample #: 1603210630-29 Sampled: 6/29/2021 11:45

Sample ID: 21G0036-09
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,4-Dioxane	ND	0.10	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Methyl Acetate	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Methyl Cyclohexane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1	L-04, V-05	SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C-D	7/2/21	7/2/21 13:06	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag/Qual				
1,2-Dichloroethane-d4		105	70-130					7/2/21 13:06	

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		7/2/21 13:06
Toluene-d8	112	70-130		7/2/21 13:06
4-Bromofluorobenzene	109	70-130		7/2/21 13:06



Sample Extraction Data

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G0036-01 [1603210629-21]	B285260	07/02/21
21G0036-03 [1603210629-23]	B285260	07/02/21
21G0036-04 [1603210630-24]	B285260	07/02/21
21G0036-05 [1603210630-25]	B285260	07/02/21
21G0036-06 [1603210630-26]	B285260	07/02/21
21G0036-07 [1603210630-27]	B285260	07/02/21
21G0036-08 [1603210630-28]	B285260	07/02/21

Prep Method: SW-846 3050B Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0036-01 [1603210629-21]	B285206	1.56	50.0	07/02/21	
21G0036-03 [1603210629-23]	B285206	1.54	50.0	07/02/21	
21G0036-04 [1603210630-24]	B285206	1.54	50.0	07/02/21	
21G0036-05 [1603210630-25]	B285206	1.56	50.0	07/02/21	
21G0036-06 [1603210630-26]	B285206	1.51	50.0	07/02/21	
21G0036-07 [1603210630-27]	B285206	1.53	50.0	07/02/21	
21G0036-08 [1603210630-28]	B285206	1.51	50.0	07/02/21	

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0036-01 [1603210629-21]	B285230	0.503	50.0	07/02/21
21G0036-03 [1603210629-23]	B285230	0.573	50.0	07/02/21
21G0036-04 [1603210630-24]	B285230	0.577	50.0	07/02/21
21G0036-05 [1603210630-25]	B285230	0.528	50.0	07/02/21
21G0036-06 [1603210630-26]	B285230	0.596	50.0	07/02/21
21G0036-07 [1603210630-27]	B285230	0.551	50.0	07/02/21
21G0036-08 [1603210630-28]	B285230	0.514	50.0	07/02/21

Prep Method: SW-846 3546 Analytical Method: SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0036-01 [1603210629-21]	B285211	30.0	1.00	07/02/21	
21G0036-03 [1603210629-23]	B285211	30.0	1.00	07/02/21	
21G0036-04 [1603210630-24]	B285211	30.0	1.00	07/02/21	
21G0036-05 [1603210630-25]	B285211	30.0	1.00	07/02/21	
21G0036-06 [1603210630-26]	B285211	30.0	1.00	07/02/21	
21G0036-07 [1603210630-27]	B285211	30.0	1.00	07/02/21	
21G0036-08 [1603210630-28]	B285211	30.0	1.00	07/02/21	

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0036-01 [1603210629-21]	B285423	10.0	10.0	07/07/21
21G0036-03 [1603210629-23]	B285423	10.0	10.0	07/07/21
21G0036-04 [1603210630-24]	B285423	10.0	10.0	07/07/21
21G0036-05 [1603210630-25]	B285423	10.0	10.0	07/07/21
21G0036-06 [1603210630-26]	B285423	10.0	10.0	07/07/21
21G0036-07 [1603210630-27]	B285423	10.0	10.0	07/07/21



Sample Extraction Data

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0036-08 [1603210630-28]	B285423	10.0	10.0	07/07/21

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0036-01 [1603210629-21]	B285252	5.91	10.0	07/02/21
21G0036-02 [1603210629-22]	B285252	5.00	10.0	07/02/21
21G0036-03 [1603210629-23]	B285252	5.41	10.0	07/02/21
21G0036-04 [1603210630-24]	B285252	5.19	10.0	07/02/21
21G0036-05 [1603210630-25]	B285252	5.06	10.0	07/02/21
21G0036-06 [1603210630-26]	B285252	4.30	10.0	07/02/21
21G0036-07 [1603210630-27]	B285252	4.87	10.0	07/02/21
21G0036-08 [1603210630-28]	B285252	4.43	10.0	07/02/21
21G0036-09 [1603210630-29]	B285252	5.00	10.0	07/02/21

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
21G0036-01 [1603210629-21]	B285210	30.0	1.00	07/02/21	
21G0036-03 [1603210629-23]	B285210	30.0	1.00	07/02/21	
21G0036-04 [1603210630-24]	B285210	30.0	1.00	07/02/21	
21G0036-05 [1603210630-25]	B285210	30.0	1.00	07/02/21	
21G0036-06 [1603210630-26]	B285210	30.0	1.00	07/02/21	
21G0036-07 [1603210630-27]	B285210	30.0	1.00	07/02/21	
21G0036-08 [1603210630-28]	B285210	30.0	1.00	07/02/21	



Methyl Acetate

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

		Panartin -		Spiles	C		0/,DEC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285252 - SW-846 5035										
Blank (B285252-BLK1)]	Prepared & A	Analyzed: 07	//02/21				
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
ert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
ert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
ec-Butylbenzene	ND	0.0020	mg/Kg wet							
ert-Butylbenzene	ND	0.0020	mg/Kg wet							
ert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							V-05
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
-Chlorotoluene	ND	0.0020	mg/Kg wet							
-Chlorotoluene	ND	0.0020	mg/Kg wet							
,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
rans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
,1-Dichloroethane	ND	0.0020	mg/Kg wet							
,2-Dichloroethane	ND	0.0020	mg/Kg wet							
,1-Dichloroethylene	ND	0.0040	mg/Kg wet							V-05
is-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
rans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
,2-Dichloropropane	ND	0.0020	mg/Kg wet							
,3-Dichloropropane	ND	0.0010	mg/Kg wet							
,2-Dichloropropane	ND	0.0020	mg/Kg wet							
,1-Dichloropropene	ND	0.0020	mg/Kg wet							
is-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
rans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
-Hexanone (MBK)	ND	0.020	mg/Kg wet							
sopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
•	1.2	0.0020	mg/Kg wet							

ND

0.0020 mg/Kg wet



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285252 - SW-846 5035											
Blank (B285252-BLK1)				Prepared & A	Analyzed: 07	7/02/21					
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet								_
Methyl Cyclohexane	ND	0.0020	mg/Kg wet								
Methylene Chloride	ND	0.020	mg/Kg wet								
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet								
Naphthalene	ND	0.0040	mg/Kg wet								
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05	
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							L-04, V-05	
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND	0.010	mg/Kg wet								
113)											
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								_
Surrogate: 1,2-Dichloroethane-d4	0.0513		mg/Kg wet	0.0500		103	70-130				
Surrogate: Toluene-d8	0.0535		mg/Kg wet	0.0500		107	70-130				
Surrogate: 4-Bromofluorobenzene	0.0559		mg/Kg wet	0.0500		112	70-130				
LCS (B285252-BS1)				Prepared & A	Analyzed: 07	7/02/21					
Acetone	0.176	0.10	mg/Kg wet	0.200		87.9	70-160				†
Acrylonitrile	0.0212	0.0060	mg/Kg wet	0.0200		106	70-130				
tert-Amyl Methyl Ether (TAME)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130				
Benzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				
Bromobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130				
Bromochloromethane	0.0263	0.0020	mg/Kg wet	0.0200		131 *	70-130			L-07, V-20	
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130				
Bromoform	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130				
Bromomethane	0.0277	0.010	mg/Kg wet	0.0200		139 *	40-130			L-02, V-20	†
2-Butanone (MEK)	0.216	0.040	mg/Kg wet	0.200		108	70-160				†
tert-Butyl Alcohol (TBA)	0.177	0.10	mg/Kg wet	0.200		88.3	40-130				†
n-Butylbenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130				
sec-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130				
tert-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-160				Ť
tert-Butyl Ethyl Ether (TBEE)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130				
Carbon Disulfide	0.148	0.0060	mg/Kg wet	0.200		73.9	70-130			V-05	
Carbon Tetrachloride	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130				
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130				
Chlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130				
Chloroethane	0.0162	0.020	mg/Kg wet	0.0200		80.9	70-130				
Chloroform	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130				



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B285252 - SW-846 5035											
LCS (B285252-BS1)				Prepared & A	Analyzed: 07/	02/21					
Chloromethane	0.0236	0.010	mg/Kg wet	0.0200		118	70-130				
2-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
4-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130				
1,2-Dibromoethane (EDB)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130				
Dibromomethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130				
1,2-Dichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130				
1,3-Dichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130				
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130				
trans-1,4-Dichloro-2-butene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130				
Dichlorodifluoromethane (Freon 12)	0.0181	0.020	mg/Kg wet	0.0200		90.4	40-160				
1,1-Dichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130				
1,2-Dichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130				
1,1-Dichloroethylene	0.0156	0.0040	mg/Kg wet	0.0200		78.1	70-130			V-05	
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130				
trans-1,2-Dichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130				
1,2-Dichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130				
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130				
2,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130				
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130				
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.1	70-130				
trans-1,3-Dichloropropene	0.0235	0.0010	mg/Kg wet	0.0200		118	70-130				
Diethyl Ether	0.0163	0.020	mg/Kg wet	0.0200		81.7	70-130				
Diisopropyl Ether (DIPE)	0.0238	0.0010	mg/Kg wet	0.0200		119	70-130				
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.2	40-160				
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130				
Hexachlorobutadiene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-160				
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	70-160				
Isopropylbenzene (Cumene)	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130				
p-Isopropyltoluene (p-Cymene)	0.0164	0.0020	mg/Kg wet	0.0200		82.2	70-130				
Methyl Acetate	0.0275	0.0020	mg/Kg wet	0.0200		138 *	70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.0200		92.9	70-130				
Methyl Cyclohexane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130				
Methylene Chloride	0.0236	0.020	mg/Kg wet	0.0200		118	40-160				
4-Methyl-2-pentanone (MIBK)	0.220	0.020	mg/Kg wet	0.200		110	70-160				
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		80.9	40-130				
n-Propylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130				
Styrene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130				
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130				
1,1,2,2-Tetrachloroethane	0.0179	0.0010	mg/Kg wet	0.0200		89.6	70-130				
Tetrachloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130				
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130				
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130				
1,2,3-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.1	70-130			V-05	
1,2,4-Trichlorobenzene	0.0153	0.0020	mg/Kg wet	0.0200		76.7	70-130				
1,3,5-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.1	70-130				
1,1,1-Trichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130				
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130				
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130				
Trichlorofluoromethane (Freon 11)	0.0131	0.010	mg/Kg wet	0.0200		65.5 *	70-130			L-04, V-05	



QUALITY CONTROL

0.0164 0.0187 0.0198 0.0179 0.0388 0.0205 0.0485 0.0545	0.010 0.0020 0.0020 0.010 0.0040 0.0020	mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet	Prepared & A 0.0200 0.0200 0.0200	Analyzed: 07/0	2/21 81.9	70-130				
0.0187 0.0198 0.0179 0.0388 0.0205	0.0020 0.0020 0.010 0.0040	mg/Kg wet mg/Kg wet mg/Kg wet mg/Kg wet	0.0200	Analyzed: 07/0		70-130				
0.0187 0.0198 0.0179 0.0388 0.0205	0.0020 0.0020 0.010 0.0040	mg/Kg wet mg/Kg wet mg/Kg wet	0.0200		81.9	70-130				
0.0198 0.0179 0.0388 0.0205 0.0485	0.0020 0.010 0.0040	mg/Kg wet								
0.0198 0.0179 0.0388 0.0205 0.0485	0.0020 0.010 0.0040	mg/Kg wet			02.2	70.120				
0.0179 0.0388 0.0205 0.0485	0.010 0.0040	mg/Kg wet	0.0700		93.3	70-130				
0.0388 0.0205 0.0485	0.0040				99.2	70-130				
0.0205 0.0485			0.0200		89.3	40-130				
0.0485	0.0020	mg/Kg wet	0.0400 0.0200		97.0 102	70-130 70-130				
										_
0.0343		mg/Kg wet	0.0500		97.0	70-130				
0.0564		mg/Kg wet	0.0500		109	70-130 70-130				
0.0304		mg/Kg wet	0.0300		113	70-130				
				Analyzed: 07/0						
0.174	0.10	mg/Kg wet	0.200		87.2	70-160	0.811	25		
0.0228	0.0060	mg/Kg wet	0.0200		114	70-130	7.27	25		
0.0204	0.0010	0 0	0.0200		102	70-130	4.60	25		
0.0209		0 0	0.0200		104	70-130	1.43	25		
0.0183			0.0200		91.4	70-130	0.219	25		
0.0257					129	70-130	2.00		V-20	
0.0210										
0.0181										
0.0264									L-02, V-20	
0.0201										
0.0183										
0.0209										
0.143									V-05	
									V 05	
									v-05	
	0.0228 0.0204 0.0209 0.0183 0.0257 0.0210 0.0181 0.0264 0.223 0.182 0.0165 0.0201 0.0183 0.0209	0.174 0.10 0.0228 0.0060 0.0204 0.0010 0.0209 0.0020 0.0183 0.0020 0.0210 0.0020 0.0181 0.0020 0.0181 0.0020 0.0264 0.010 0.223 0.040 0.182 0.10 0.0201 0.0020 0.0183 0.0020 0.0183 0.0020 0.0184 0.0020 0.0188 0.0020 0.0188 0.0020 0.0226 0.0010 0.0169 0.020 0.0224 0.0040 0.0224 0.0040 0.0225 0.0020 0.0165 0.0020 0.0226 0.0010 0.0226 0.0010 0.0183 0.0020 0.0184 0.0020 0.0187 0.0040 0.0187 0.0040 0.0187 0.0040 0.0229 <td< td=""><td>0.174</td><td>0.174</td><td>0.174</td><td> Prepared & Analyzed: 07/02/21 </td><td> Prepared & Analyzed: 07/02/21</td><td> </td><td> </td><td> Prepared & Analyzed: 07/02/21 </td></td<>	0.174	0.174	0.174	Prepared & Analyzed: 07/02/21	Prepared & Analyzed: 07/02/21			Prepared & Analyzed: 07/02/21



QUALITY CONTROL

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch B285252 - SW-846 5035											_
LCS Dup (B285252-BSD1)				Prepared & A	Analyzed: 07	//02/21					
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	3.76	25		
trans-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	10.7	25		
Diethyl Ether	0.0180	0.020	mg/Kg wet	0.0200		89.9	70-130	9.56	25		
Diisopropyl Ether (DIPE)	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130	2.29	25		
1,4-Dioxane	0.255	0.10	mg/Kg wet	0.200		128	40-160	26.0	50		† ‡
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	1.52	25		
Hexachlorobutadiene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-160	1.87	25		
2-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113	70-160	0.697	25		†
Isopropylbenzene (Cumene)	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	3.05	25		
p-Isopropyltoluene (p-Cymene)	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130	1.81	25		
Methyl Acetate	0.0289	0.0020	mg/Kg wet	0.0200		144 *	70-130	4.90	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.4	70-130	4.73	25		
Methyl Cyclohexane	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.23	25		
Methylene Chloride	0.0235	0.020	mg/Kg wet	0.0200		117	40-160	0.680	25		†
4-Methyl-2-pentanone (MIBK)	0.223	0.020	mg/Kg wet	0.200		111	70-160	1.10	25		†
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		81.2	40-130	0.370	25		†
n-Propylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	3.39	25		
Styrene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.437	25		
1,1,1,2-Tetrachloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.09	25		
1,1,2,2-Tetrachloroethane	0.0180	0.0010	mg/Kg wet	0.0200		89.9	70-130	0.334	25		
Tetrachloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	2.53	25		
Tetrahydrofuran	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	11.1	25		
Toluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	3.90	25		
1,2,3-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.0	70-130	1.37	25	V-05	
1,2,4-Trichlorobenzene	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130	1.84	25		
1,3,5-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.0200		82.1	70-130	2.47	25		
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	6.46	25		
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	6.35	25		
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	0.207	25		
Trichlorofluoromethane (Freon 11)	0.0131	0.010	mg/Kg wet	0.0200		65.4 *	70-130	0.153	25	L-04, V-05	
1,2,3-Trichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.26	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0164	0.010	mg/Kg wet	0.0200		82.1	70-130	0.244	25		
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	0.534	25		
1,3,5-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.37	25		
Vinyl Chloride	0.0166	0.010	mg/Kg wet	0.0200		83.2	40-130	7.07	25		†
m+p Xylene	0.0374	0.0040	mg/Kg wet	0.0400		93.6	70-130	3.67	25		
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	4.91	25		_
Surrogate: 1,2-Dichloroethane-d4	0.0490		mg/Kg wet	0.0500		97.9	70-130				_
Surrogate: Toluene-d8	0.0538		mg/Kg wet	0.0500		108	70-130				
Surrogate: 4-Bromofluorobenzene	0.0563		mg/Kg wet	0.0500		113	70-130				



QUALITY CONTROL

Spike

Source

%REC

RPD

Semivolatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285210 - SW-846 3546										
Blank (B285210-BLK1)				Prepared: 07	/02/21 Analy	zed: 07/06/2	.1			
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
enzo(a)pyrene	ND	0.17	mg/Kg wet							
enzo(b)fluoranthene	ND	0.17	mg/Kg wet							
enzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
enzo(k)fluoranthene	ND	0.17	mg/Kg wet							
hrysene	ND	0.17	mg/Kg wet							
ibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
luoranthene	ND	0.17	mg/Kg wet							
luorene	ND	0.17	mg/Kg wet							
ndeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
-Methylnaphthalene	ND	0.17	mg/Kg wet							
aphthalene	ND	0.17	mg/Kg wet							
henanthrene	ND	0.17	mg/Kg wet							
yrene	ND	0.17	mg/Kg wet							
urrogate: Nitrobenzene-d5	1.61		mg/Kg wet	3.33		48.2	30-130			
urrogate: 2-Fluorobiphenyl	1.73		mg/Kg wet	3.33		51.8	30-130			
urrogate: p-Terphenyl-d14	2.10		mg/Kg wet	3.33		63.0	30-130			
CS (B285210-BS1)				Prepared: 07	/02/21 Analy	zed: 07/06/2	1			
cenaphthene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
cenaphthylene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
nthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
enzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
enzo(a)pyrene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140			
enzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
enzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
enzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
hrysene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
ibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
luoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
luorene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
ndeno(1,2,3-cd)pyrene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
-Methylnaphthalene	1.16	0.17		1.67		69.9	40-140			
aphthalene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
henanthrene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
yrene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140			
urrogate: Nitrobenzene-d5	2.13		mg/Kg wet	3.33		63.9	30-130			
urrogate: 2-Fluorobiphenyl	2.03		mg/Kg wet	3.33		61.0	30-130			
Surrogate: p-Terphenyl-d14	2.49		mg/Kg wet	3.33		74.6	30-130			



QUALITY CONTROL

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285210 - SW-846 3546										
LCS Dup (B285210-BSD1)			I	Prepared: 07	7/02/21 Anal	yzed: 07/06/2	21			
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	3.03	30	
Acenaphthylene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	3.04	30	
Anthracene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	1.31	30	
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	2.03	30	
Benzo(a)pyrene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	3.46	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	1.74	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140	1.40	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	3.29	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	4.22	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	3.96	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	8.09	30	
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	2.63	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	1.16	30	
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	2.49	30	
Naphthalene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140	0.167	30	
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	3.27	30	
Pyrene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	2.09	30	
Surrogate: Nitrobenzene-d5	2.16		mg/Kg wet	3.33		64.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.11		mg/Kg wet	3.33		63.4	30-130			
Surrogate: p-Terphenyl-d14	2.48		mg/Kg wet	3.33		74.4	30-130			



QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285423 - SW-846 3540C										
Blank (B285423-BLK1)			:	Prepared: 07	//07/21 Anal	yzed: 07/09/2	21			
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.143		mg/Kg wet	0.200		71.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.9	30-150			
LCS (B285423-BS1)				Prepared: 07	//07/21 Anal	yzed: 07/09/2	21			
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.5	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		77.5	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.8	40-140			
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.151		mg/Kg wet	0.200		75.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.8	30-150			
LCS Dup (B285423-BSD1)				Prepared: 07	//07/21 Anal	yzed: 07/09/2	21			
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	3.67	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	5.37	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.1	40-140	4.51	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140	4.84	30	
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.8	30-150			



QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285211 - SW-846 3546										
Blank (B285211-BLK1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/2	21			
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.3	40-140			
LCS (B285211-BS1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/2	21			
TPH (C9-C36)	24.8	8.3	mg/Kg wet	33.3		74.5	40-140			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.9	40-140			
LCS Dup (B285211-BSD1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/2	21			
TPH (C9-C36)	22.8	8.3	mg/Kg wet	33.3		68.5	40-140	8.32	25	
Surrogate: 2-Fluorobiphenyl	2.14		mg/Kg wet	3.33		64.3	40-140			



QUALITY CONTROL

Spike

Source

%REC

RPD

Metals Analyses (Total) - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B285206 - SW-846 3050B										
Blank (B285206-BLK1)				Prepared: 07	7/02/21 Analy	zed: 07/06	5/21			
Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	3.3	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Chromium	ND	0.66	mg/Kg wet							
Copper	ND	0.66	mg/Kg wet							
ead	ND	0.49	mg/Kg wet							
Vickel	ND	0.66	mg/Kg wet							
elenium	ND	3.3	mg/Kg wet							
ilver	ND	0.33	mg/Kg wet							
`hallium	ND	1.6	mg/Kg wet							
line	ND	0.66	mg/Kg wet							
CS (B285206-BS1)				Prepared: 07	7/02/21 Analy	yzed: 07/07	7/21			
Antimony	133	5.0	mg/Kg wet	134		99.6	1.9-200.7			
arsenic	171	10	mg/Kg wet	170		101	82.9-117.6			
Beryllium	143	0.50	mg/Kg wet	116		123	* 83.4-116.4			L-07
Cadmium	104	1.0	mg/Kg wet	89.5		116	82.8-117.3			
Chromium	122	2.0	mg/Kg wet	101			* 82.1-117.8			L-07
Copper	169	2.0	mg/Kg wet	149		113	83.9-116.1			
ead	145	1.5	mg/Kg wet	140		103	82.9-117.1			
lickel	85.0	2.0	mg/Kg wet	68.3			* 82.1-117.7			L-07
elenium	201	10	mg/Kg wet	182		110	79.7-120.3			- '
ilver	52.9	1.0	mg/Kg wet	50.1		106	80.2-120			
Thallium	82.5	5.0	mg/Kg wet	87.7		94.0	81.1-118.6			
iine	262	2.0	mg/Kg wet	228		115	80.7-118.9			
.CS Dup (B285206-BSD1)	202				7/02/21 Analy					
Antimony	126	5.0	mg/Kg wet	134	. VENET Tillaly	94.2	1.9-200.7	5.54	30	
Arsenic	169	10	mg/Kg wet	170		99.7	82.9-117.6	1.10	30	
Beryllium	132	0.50	mg/Kg wet	116		114	83.4-116.4	7.48	30	
Cadmium	97.2	1.0	mg/Kg wet	89.5		109	82.8-117.3	7.04	20	
Chromium	112	2.0	mg/Kg wet	101		111	82.1-117.8	8.45	30	
Copper	161	2.0	mg/Kg wet	149		108	83.9-116.1	4.57	30	
ead		1.5	mg/Kg wet	149		104	82.9-117.1	0.846	30	
Vickel	146	2.0	mg/Kg wet	68.3		117	82.1-117.7	6.31	30	
elenium	79.8	10	mg/Kg wet	182		109	79.7-120.3	1.41	30	
ilver	198	1.0	mg/Kg wet	50.1		109	80.2-120.3	0.870	30	
Thallium	53.4	5.0	mg/Kg wet							
Zinc	78.1	2.0	mg/Kg wet	87.7		89.1	81.1-118.6	5.41	30	
IIIC IIIC	252	2.0	mg/kg wet	228		111	80.7-118.9	4.02	30	
eference (B285206-SRM1) MRL Check				Prepared: 07	7/02/21 Analy	zed: 07/00	5/21			
ead	0.458	0.48	mg/Kg wet	0.481		95.1	80-120			



QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285230 - SW-846 7471										
Blank (B285230-BLK1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/	21			
Mercury	ND	0.025	mg/Kg wet							
LCS (B285230-BS1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/	21			
Mercury	14.2	0.76	mg/Kg wet	15.6		91.0	59.3-140.4			
LCS Dup (B285230-BSD1)				Prepared: 07	7/02/21 Anal	yzed: 07/06/	21			
Mercury	14.4	0.75	mg/Kg wet	15.6		92.6	59.3-140.4	1.75	20	



ANALYTE

Aroclor-1254

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONCENTRATION

0.26

0.28

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

1603210630-25

%RPD

7.4

SW-846 8082A

COL

1

2

RT

0.000

0.000

La	ab Sample ID: 210	30036-05		Date(s) Analyz	zed: 07/09/2021	0//0	9/2021
In	strument ID (1):			Instrument ID	(2):		
G	C Column (1):	ID:	(m	nm) GC Column (2	2):	ID:	(mm)
	ANALYTE	COL	рт	RT WINDOW	CONCENTRATION	% PDD	

FROM

-0.030

-0.030

TO

0.030

0.030



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Lab Sample ID:	B285423-BS1		Date(s) Analyzed:	07/09/2021	07/09/20	21
Instrument ID (1):	ECD4		Instrument ID (2):	ECD4		
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7.17.2112	OOL	111	FROM	TO	OONOLIVITATION	70111 13
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS	Dup	

SW-846 8082A

Lab Sample ID:	B285423-BSD1		Date(s) Analyzed:	07/09/2021	07/09/	2021
Instrument ID (1):	ECD4	_	Instrument ID (2):	ECD4		
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7,10,12172	002	111	FROM	TO	OONOLIVITUATION	701111 15
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
O-26	Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.



CERTIFICATIONS

Certified Analyses included in this Report

sec-Butylbenzene

Certified Analyses included in this Report	0241110.110	
Analyte	Certifications	
SW-846 6010D in Soil		
Antimony	CT,NH,NY,ME,VA,NC	
Arsenic	CT,NH,NY,ME,VA,NC	
Beryllium	CT,NH,NY,ME,VA,NC	
Cadmium	CT,NH,NY,ME,VA,NC	
Chromium	CT,NH,NY,ME,VA,NC	
Copper	CT,NH,NY,ME,VA,NC	
Lead	CT,NH,NY,AIHA,ME,VA,NC	
Nickel	CT,NH,NY,ME,VA,NC	
Selenium	CT,NH,NY,ME,VA,NC	
Silver	CT,NH,NY,ME,VA,NC	
Thallium	CT,NH,NY,ME,VA,NC	
Zinc	CT,NH,NY,ME,VA,NC	
SW-846 7471B in Soil		
Mercury	CT,NH,NY,NC,ME,VA	
SW-846 8082A in Soil		
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA	
Aroclor-1262	NY,NC,VA,PA	
Aroclor-1262 [2C]	NY,NC,VA,PA	
Aroclor-1268	NY,NC,VA,PA	
Aroclor-1268 [2C]	NY,NC,VA,PA	
SW-846 8260C-D in Soil		
Acetone	CT,NH,NY,ME,VA	
Acrylonitrile	CT,NH,NY,ME,VA	
Benzene	CT,NH,NY,ME,VA	
Bromobenzene	NH,NY,ME,VA	
Bromochloromethane	NH,NY,ME,VA	
Bromodichloromethane	CT,NH,NY,ME,VA	
Bromoform	CT,NH,NY,ME,VA	
Bromomethane	CT,NH,NY,ME,VA	
2-Butanone (MEK)	CT,NH,NY,ME,VA	
tert-Butyl Alcohol (TBA)	NY,ME	
n-Butylbenzene	CT,NH,NY,ME,VA	
and Dustrille and and	CT NILL NIV ME VA	

CT,NH,NY,ME,VA



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene 1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA CT,NH,NY,ME,VA
1,1,2-1etrachioroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
readmoroemytene	O 151 VI 151 VI 151 VI 15 VI



Indeno(1,2,3-cd)pyrene

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report	CERTIFICATIONS
Analyte	Certifications
SW-846 8260C-D in Soil	
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Chrysene Dibenz(a,h)anthracene Fluoranthene	CT,NY,NH,ME,NC,VA CT,NY,NH,ME,NC,VA CT,NY,NH,ME,NC,VA

CT,NY,NH,ME,NC,VA



CERTIFICATIONS

Certified Analyses included in this Report

Analyte Certifications

SW-846 8270D-E in Water

2-MethylnaphthaleneCT,NY,NH,ME,NC,VANaphthaleneCT,NY,NH,ME,NC,VAPhenanthreneCT,NY,NH,ME,NC,VAPyreneCT,NY,NH,ME,NC,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



🗇 146 Hartford Road, Manchester, CT 06040

🗆 56 Quarry Road, Trumbull, CT 06611

🖺 1419 Richland Street, Columbia, SC 29201

☐ 78 Interstate Drive, West Springfield, MA 01089

🔁 317 Iron Horse Way, Suite 204, Providence, RI 02908

 \square 80 Washington Street, Suite 301, Poughkeepsie, NY

per client run PCBS via sox jlh 7/2/2021 C 70 E 3JAY

DI ANZE CHAIN OF CUSTO	DVDECC	ממו	2741			Tu	maround
2160036 CHAIN-OF-CUSTO	DI RECU	IKD	3715))	□ 24-Ho □ 48-Ho	_	🗆 Other (days)
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719 NIVER STREET. C	134205H00	U	**************************************	DOIR	1545,1310	(CON-785T
REPORT TO: Madelyn Sampson Consomp INVOICE TO:	sone fundo, ca	om)	Analysis	/			Containers
		l(Request				////////
P.O. No.: Have anderson 1603 2981545	13/0						
Sampler's Signature: Well In	Date:6/3€	166	do mario de				
MW=Monitoring Well PW=Potable Water T=Treatment Facility	•	ediment					
SW=Surface Water ST=Stormwater W=Waste $\Lambda = \Lambda$						/\$\\&\\	
X=Other TNIO BLANK							\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$
Item Transfer Check Sample Number	Source Date	Time		20/2/20			
1 2 3 4	Code Sampled	Sampled	12/24/2	\$1.50° /			Comments
21 x 1603210629-21	5 6/29/21	1253	XXX	XX	1 2 2		SB-13
79 × 1603910639 - 33	X 6/36/3	1430	X		1 2		TVJVBLANK
23 X 1603210630 - 23	5 6/30/21	67 W	XXX	XX	122		MW-14
24 X - 24		0722	XXX	XX	172		MW-14
25 X -25		08/3	XXX	XX	122		mω-15
26 X -26		0836	XXX	ΧX	(32		ma-15
2) X -92		0452	XXX	X X	182		100513-16
38 X -48	V	0454	XXX	XX	132		SB-16
P6- N P6	X CV	1145	X		1 2		- P 10
Transfer Relinquished By	Accepted By	Date	Time	Charge Lixeeptions:	□ CT Tax Exempt □ C	QA/QC □ Other	
None (111		Duplicates B	lanks (Item Nos: 🞝 🔏	59)
2 Meder of From	LTUGE	6396			ction Limit Requirements:	□ RCP Deliverables □	D MCP CAM Cert.
3 Fto FRIDER John		9/34/3	1 530 2 Oly	Additional Comme		VIV	
4 Wedles In Inches	Marie	- 1/1/1/2	107.4	6			
Anchew From In Vi	- 2. D, 4-4	71.5		1704	1447		- A A A A A A A A A A A A A A A A A A A

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client	Fuse	+ D'Weill			0110111	otate III	ac of Taise		
	ved By	<u> </u>		Date	711)	21	Time	1447	
	he samples	In Cooler		No Cooler		On Ice		No Ice	
rece	ived?	Direct from Samp	oling			Ambient		 Melted Ice 	•
Were sam	ples within		By Gun #	_5		Actual Ter	110- 20,0	 1.4	
	ure? 2-6°C	T	By Blank #			Actual Ter			·····
	s Custody S		na		re Sample	s Tampere		nla	develope
	s COC Relin			Does		ree With Sa		T	_
		leaking/loose caps	on any sam		F			***************************************	
Is COC in it					nples rece	ived within h	nolding time?		
Did COC		Client		Analysis	T		ler Name	T	
pertinent In		Project		ID's	<u> </u>	Collection	n Dates/Times	·	
		d out and legible?	工						
Are there La		₹ .	<u> </u>			s notified?			_
Are there R		,	<u> </u>			s notified?			
Are there Sh			<u> </u>		Who wa	s notified?			
Is there eno	-					-			
		ere applicable?	nla		MS/MSD?		_		
Proper Medi Were trip bla		2555 (557 25650256 55				samples red	quired?	<u>+</u>	_
		proper pH?			On COC?			1	
	es nave trie	hiobei hu i		Acid _	<u>pla</u>		Base	na	-
Vials Unp-	315	(Pistinglinere)	#						
HCL-		1 Liter Amb. 500 mL Amb.		1 Liter F				Amb.	
Meoh-	a	250 mL Amb.		500 mL 250 mL				b/clear>	16
Bisulfate-	- Ч	Flashpoint		Col./Ba				b/Clear	<u> </u>
DI-	18	Other Glass		Other P				b/Clear core	
Thiosulfate-		SOC Kit		Plastic			-		
Sulfuric-		Perchlorate		Ziplo			1102011. 77	11210	1442
				Unused N			I		
		Sugamers :		British da					
Unp-		1 Liter Amb.		1 Liter P	lastic		16 oz	Amb.	
HCL-		500 mL Amb.		500 mL f	Plastic		8oz Am		
Meoh-		250 mL Amb.		250 mL f	Plastic	··········	4oz Am		
Bisulfate-		Col./Bacteria		Flashp	oint		2oz Am	b/Clear	
DI-		Other Plastic		Other G			Enc	ore	
Thiosulfate-		SOC Kit		Plastic			Frozen:		
Sulfuric-		Perchlorate		Ziplo	ck [
Comments:									
							W.		

August 2, 2021

Madelyn Sampson Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908

Project Location: 719 River St, Woonsocket, RI

Client Job Number:

Project Number: 20181545.B10

Laboratory Work Order Number: 21G1540

Jessica Hoffman

Enclosed are results of analyses for samples received by the laboratory on July 28, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman Project Manager

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B287051	14
Flag/Qualifier Summary	15
Certifications	16
Chain of Custody/Sample Receipt	17



Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 8/2/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G1540

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 719 River St, Woonsocket, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1603210628-06	21G1540-01	Soil	SB-4	SM 2540G	
				SW-846 6010D	
1603210628-09	21G1540-02	Soil	MW-6	SM 2540G	
				SW-846 6010D	
1603210628-10	21G1540-03	Soil	SB-7	SM 2540G	
				SW-846 6010D	
1603210629-14	21G1540-04	Soil	SB-7	SM 2540G	
				SW-846 6010D	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G1540-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		90.4		% Wt	1		SM 2540G	7/2/21	7/3/21 0:00	DRL



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-4 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210628-06 Sampled: 6/28/2021 10:12

Sample ID: 21G1540-01
Sample Matrix: Soil

TCLP - Metals Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Lead		0.18	0.10	mg/L	1		SW-846 6010D	7/29/21	7/30/21 4:13	МЈН



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G1540-02
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		93.2		% Wt	1		SM 2540G	7/2/21	7/3/21 0:00	DRL



Project Location: 719 River St, Woonsocket, RI Sample Description: MW-6 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210628-09 Sampled: 6/28/2021 11:34

Sample ID: 21G1540-02 Sample Matrix: Soil

TCLP - Metals Analyses

								Date	Date/Time		
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst	
Lead		1.4	0.10	mg/L	1		SW-846 6010D	7/29/21	7/30/21 15:17	MJH	



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G1540-03
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		88.3		% Wt	1		SM 2540G	7/2/21	7/3/21 0:00	DRL



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210628-10 Sampled: 6/28/2021 13:56

Sample ID: 21G1540-03
Sample Matrix: Soil

TCLP - Metals Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Lead		ND	0.10	mg/L	1		SW-846 6010D	7/29/21	7/30/21 4:21	МЈН



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210629-14 Sampled: 6/29/2021 07:19

Sample ID: 21G1540-04
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		88.2		% Wt	1		SM 2540G	7/2/21	7/3/21 0:00	DRL



Project Location: 719 River St, Woonsocket, RI Sample Description: SB-7 Work Order: 21G1540

Date Received: 7/28/2021

Field Sample #: 1603210629-14 Sampled: 6/29/2021 07:19

Sample ID: 21G1540-04
Sample Matrix: Soil

TCLP - Metals Analyses

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Chromium		0.090	0.050	mg/L	1		SW-846 6010D	7/29/21	7/30/21 4:29	МЈН
Lead		0.35	0.10	mg/L	1		SW-846 6010D	7/29/21	7/30/21 4:29	MJH



Sample Extraction Data

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G1540-01 [1603210628-06]	B285260	07/02/21
21G1540-02 [1603210628-09]	B285260	07/02/21
21G1540-03 [1603210628-10]	B285260	07/02/21
21G1540-04 [1603210629-14]	B285260	07/02/21

Prep Method: SW-846 3010A Analytical Method: SW-846 6010 Analy

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
21G1540-01 [1603210628-06]	B287051	50.0	50.0	07/29/21	
21G1540-02 [1603210628-09]	B287051	50.0	50.0	07/29/21	
21G1540-03 [1603210628-10]	B287051	50.0	50.0	07/29/21	
21G1540-04 [1603210629-14]	B287051	50.0	50.0	07/29/21	



QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287051 - SW-846 3010A										
Blank (B287051-BLK1)				Prepared &	Analyzed: 07	//29/21				
Chromium	ND	0.050	mg/L							
Lead	ND	0.10	mg/L							
LCS (B287051-BS1)				Prepared &	Analyzed: 07	//29/21				
Chromium	0.516	0.050	mg/L	0.500		103	80-120			
Lead	0.496	0.10	mg/L	0.500		99.2	80-120			
LCS Dup (B287051-BSD1)				Prepared &	Analyzed: 07	//29/21				
Chromium	0.514	0.050	mg/L	0.500		103	80-120	0.452	20	
Lead	0.493	0.10	mg/L	0.500		98.5	80-120	0.623	20	
Matrix Spike (B287051-MS1)	Sou	rce: 21G1540-	02	Prepared &	Analyzed: 07	//29/21				
Chromium	0.492	0.050	mg/L	0.500	NE	98.4	75-125			
Lead	1.90	0.10	mg/L	0.500	1.40	99.6	75-125			



FLAG/QUALIFIER SUMMARY

*	QC result is	outside of	established	limits.
---	--------------	------------	-------------	---------

† Wide recovery limits established for difficult compound.

‡ Wide RPD limits established for difficult compound.

Data exceeded client recommended or regulatory level

ND Not Detected

RL Reporting Limit is at the level of quantitation (LOQ)

DL Detection Limit is the lower limit of detection determined by the MDL study

MCL Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the

calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte Certifications

SW-846 6010D in Water

Chromium NY,CT,ME,NC,NH,VA
Lead NY,CT,ME,NC,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publile Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

TCLP Lead on samples per client. JLH 7/28/2021 er, CT 06040

er, CT 06040 T 06611 Jia, SC 29201

□ 78 Interstate Drive, West Springfield, MA 01089 ☑ 317 Iron Horse Way, Suite 204, Providence, RI 02908

□ 80 Washington Street, Suite 301, Poughkeepsie, NY

Other		

21G1540

2100655 CHAIN-OF-CUSTODY RECORD 37140

24-Hour*	□ 72-Hour*	□ Other	(days)
	Turn	around	

					20. 6 8000				□ /2-Hour* Standard (□ Other *Surcharge Applies	
Project N/	ME	P	ROJECT I	LOCATION			рест Number		- Manual Milder (ABORATORY	1
719 NIVEN	STILEET	طف	a NZCC	IN JAN		3018	1545, B	()		CON-	TEST	
REPORT TO: Hod Invoice To:	STREET Jelyn Sampso	n (MSam	psoned	fondo.com/	Analysis Request	5	20 000	*///			Containers	
P.O. No.: 160330					The second secon							1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MW=Monitoring Well	Mesolly Sz PW=Potable Water T ST=Stormwater W	## =Treatment Facility =Waste Λ=Air		B=Sediment	1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Item No. Transfer Check 1 2 3 4	Sample Nur	nber	Source Code	Date Time Sampled Sample	4 32						Comn	
\ X	603210628	- 61	5	6/28/21 074	XXX	XX		2/2/			SB-1	iches
2 x		- 09		1670	XXX	XX		32			MW-2	
3 ×		- 03		090	XXX	XX		2 2			58-3	
4 ×		~ 0Y		0910	XXX	XX		22			58-3	
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(0)		-10	U	V 13S1	OKXY	XXX			i		SB-7	
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 	Transfer umber	Relinquished By	Accepted By	Date	Time	Charge Exceptions: Cl' Tax Exempt QA/QC Other Duplicates Blanks (Item Nos:)	
age 1	2	Modely Jan 40 France	Pto Privile	6/28/21	1536 1948	Reporting and Detection Limit Requirements: RCP Deliverables MCP CAM Cert.	:
0119	3 4	Andrew mon	Ma Ba 20Hin	7/1/21	9:46	Additional Comments: HOLD EXTINA SOTIL FOR POTENTIAL TOLP.	The same of the sa

FUSS & O'NEILL	(860) 646-2469 • www.fandO.com
	3

		Trees.	Charge (syceptions:	
Relinquished By	Accepted by	L'ate Inne		Ta
Roselle Fre	Pto Pictobic	16/08/21 153C	S S Reporting and Detection Limit Requirements. © RCP Deliverables © MCP CAM Cert.	ble
who has	C to thisty le	6/39/21/1430	77	of (
をかなった	Mall fr	35 15/11/a	Additional Comments:	Cor
Man In 1	Gradus Brown	1/1/21/9.1	All I	nten
The County	all ou sand	1/12/24>Pm	Spri max	ıts

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____



Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client	-	nent will be broug	gnt to the a	itention or	the Client	- State Truc	e or Faise		
Receiv		Me		Date	711/2	21	Time	1447	***************************************
How were the	he samples	In Cooler	1	No Cooler		On Ice	-	No Ice	
recei	ved?	Direct from Samp	ling	•		Ambient	1	Melted Ice	
Were sam	nlee within		By Gun #	5		Actual Tem	1p- 20,4		****
Temperatu	•	T	By Blank #			Actual Tem	G.	<u> </u>	-
N. 1. 1. 1. 1.	Custody S	eal Intact?	nla	~~~~	re Sample	s Tampered		n la	-
	COC Relin			•	F00.000	ree With Sa		T	•
		eaking/loose caps	on any sam		Į.				
Is COC in in			•			ved within h	olding time?		
Did COC i	nclude all	Client	T	Analysis	T		er Name	T	-
pertinent In		Project	7	ID's	T	Collection	Dates/Times	T	-
		d out and legible?							
Are there La		?	<u> </u>			s notified?			_
Are there Ru			<u> </u>			s notified?			
Are there Sh			F		Who was	s notified?			-
is there enou	_	2000 W. W. 2000	T			Nigorov.			
		ere applicable?	<u>na</u>		MS/MSD?	<u> </u>		-	
Proper Medi		1005.000	T			samples rec	quired?	<u> </u>	-
Were trip bla		e proper pH?			On COC?			. [
	es nave the			Acid _	<u>nla</u>		Base	n a	-
Vials Unp-	#	Containers: 1 Liter Amb.	#	1 Liter I	Plactic	#	16.07	Amb.	#
HCL-		500 mL Amb.		500 mL				b/Clear	40
Meoh-	20	250 mL Amb.		250 mL		·····		b/Clear	
Bisulfate-		Flashpoint		Col./Ba	cteria			ıb/Clear	
DI-	40	Other Glass		Other F	Plastic		End	core	
Thiosulfate-		SOC Kit		Plastic			Frozen: +71	1121@	144>
Sulfuric-		Perchlorate		Ziplo	ock			.,,,,,	1 1 0 2
VIII				Unused N	/ledia				
Vials Unp-	1/	Containers: 1 Liter Amb.	#	1 Liter F	Diactio	#	16	A mark	i i
HCL-		500 mL Amb.		500 mL			16 oz 8oz Am		
Meoh-		250 mL Amb.		250 mL		····	4oz Am		
Bisulfate-		Col./Bacteria		Flash			2oz Am		
DI-		Other Plastic		Other (Enc	~ ~~~	
Thiosulfate-		SOC Kit		Plastic	Bag		Frozen:	A. A	
Sulfuric-		Perchlorate		Ziplo	ock				
Comments:									
·									
							**************************************		9000 S0000



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

			YES	NO	COMMENTS
1. 2. 3.		SDG Project Narratives Traffic Report Volatiles Data			
	а.	Sample Data Target Compound List (TCL) Results Reconstructed total ion chromatograms (RIC) for each samp For each sample:	ole 1		
		Raw spectra and background-subtracted mass spectra of target compounds identified Mass spectra of all reported TICs with three best library			
		matches Percent solids calculations			
	b.	Standards Data (all instruments) Initial Calibration Data RICs and Quan Reports for all Standards Continuing Calibration RICs and Quan Reports for all Standards Internal Standard Area Summary			
	c.	Raw QC Data Blank Data Matrix Spike Data Matrix Spike Duplicate Data	d	in the second se	NA NA
4.	a.	Semivolatiles Data QC Summary Surrogate Percent Recovery Summary MS/MSD Summary			
		Method Blank Summary Tuning and Mass Calibration		/	artinana di al-Armopaina andiquata



YES NO COMMENTS

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS (Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?***

b.	Sample Data TCL Results Tentatively Identified Compounds Reconstructed total ion chromatograms (RIC) for each Sample		
	For each sample: Raw spectra and background-subtracted mass spectra of TCL compounds Mass spectra of TICs with 3 best library matches GPC chromatograms (if GPC performed)	1	
C.	Standards Data (all instruments) Initial Calibration Data RICs and Quan Reports for all Standards Continuing Calibration RICs and Quan Reports for all Standards Internal Standard Areas Summary Internal Standard Areas Summary		
d.	Raw QC Data Decafluorotripbenylphosphine (DFTPP) Blank Data Matrix Spike Data Matrix Spike Duplicate Data		
5.	Miscellaneous Data Original preparation and analysis forms or copies of preparation and analysis log book pages Internal sample & sample extract transfer chain-of custody records Screening Records All instrument output, including strip charts from screening activities (describe or list) Quant reports / Chamatag	on d	NA



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS (Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

6.	Sample	of-Custody Records Log-in Sheet (Lab & DC1) aneous Shipping/Receiving Records (descr	ribe or list)	YES	NO .	COMME	NTS	
	7.	Internal Lab Sample Transfer Records and Sheets (describe or list)	d Tracking		ο.			
	8.	Other Records (describe or list)			1			
	9.	Comments:						
	**	See laboratory Quality Assurance Plan for li	imits.					
Compl (Lab)	eted by:	Signature) Dar (Printed	en Dam Name/Title	Loras	jun	Manuger	7: Date	21-2
associa	ted with	e above information is true and accurate. I fu the above analyses will be made available for this document.						
Certific	ed by:	(Signature) (Printed	Name/Title	e)			Date	



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST INORGANIC COMPOUNDS

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

	YES	NO	COMMENTS
SDG Project Narratives			
Inorganic Analysis Data Sheet			
Initial and Continuing Calibration Verification			
CRDL Standard for AA and ICP	1		Lead
Blanks		П	
ICP Interference Check Sample	W,		
Spike Sample Recovery			
Post Digest Spike Sample Recovery	11	- 1	
Duplicates	1	П	***************************************
Laboratory Control Sample	1	П	
Standard Addition Results	ο,	1	amount of the Commission of the past of the past of the Commission
ICP Serial Dilutions	W		
Instrument Detection Limits, Quarterly		1	annully
ICP Interelement Correction Factors, Annually	1		seni-annully
ICP Linear Ranges Quarterly		1	Semi-annually
Preparation Log	1		
Analysis Run Log	V	П	
ICP Raw Data	TV	П	
Furnace AA Raw Data			NA
Mercury Raw Data	1		
Percent Solids Calculations	V.		
Digestion Logs	V		A Report Company of the Company of t
EPA Shipping/Receiving Records			
(List all individual records)	Π,		_NA
Chain-of Custody Records	1		
Sample Log-In sheet	V		
Miscellaneous Shipping/Receiving Records			NA
(List all individual records)			



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST INORGANIC COMPOUNDS (Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

YES NO COMMENTS

25.	Internal Lab Sample Transfer R (Describe or List)	ecords and Tracking Sheets		
26.	Internal Original Sample Prepar (Describe or List Preparation Records Analysis Records	ration and analysis Records		
	Description			
27.	Other Records (Describe or Lis	t)	000000000000000000000000000000000000000	
28.	Comments:			
**	See laboratory Quality Assurance	ce Plan for limits.		
Comple (Lab)	eted by: Signature)	Daren Damlang (Printed Name/Title	ian Manager	7-21-200 Date
associa	y that the above information is to ted with the above analyses will l ation of this document.			
Certific				
(Lab)	(Signature)	(Printed Name/Title	=)	Date



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	NO	<u>C</u>
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records	X		
Groundwater field measurements (if applicable)			N/A
Soil sampling field measurements (if applicable)	X		
Sediment sampling field measurements (if applicable)			N/A
Surface water sampling field measurements (if applicable)			N/A
Low-flow sampling field measurements (if applicable)			N/A
Documentation of field activities	$\overline{\mathbf{X}}$		
Sample numbering and labeling	\mathbf{X}		
Chain-of-Custody records	\mathbf{X}		
Trip blanks	X		
Duplicate samples	X		
Equipment blanks			N/A
Split samples (if any)			N/A
2. LABORATORY MEASUREMENTS:			
Trip blanks	$\overline{\mathbf{X}}$		
Instrument blanks			N/A
Laboratory control samples	X		
Duplicates samples	$\overline{\mathbf{X}}$		
Equipment blanks			N/A
Matrix spike/matrix spike duplicates			N/A
Analysis type	\mathbf{X}		
Chain-of-Custody records	$\overline{\mathbf{X}}$		
Surrogate recoveries	\mathbf{X}		
Sample Project Narratives	$\overline{\mathbf{X}}$		
Split samples (if any)			N/A
TOTAL: $\underline{1}$	4		
PERCENT CO	MPLETE:	100	



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

1. SAMPLING AND FIELD MEASUREMENTS:	<u>YES</u>	NO	COMMEN 15
Field measurement calibration records			
pH - \pm 0.3 pH units			N/A
S.C \pm 5% of calibration solution, within?			
calibration range			N/A
Temperature - \pm 0.5 °C			N/A
D.O \pm 5% of calibration solution			N/A
Groundwater field measurements (if applicable)			
Water depth measured to within 0.01 ft.?			N/A
Soil sampling field measurements (if applicable)			
$OVM - \pm 2 ppm$	\mathbf{X}		
$OVA - \pm 2 ppm$			N/A
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?			N/A
Surface water sampling field measurements (if applicable)			TNT / A
Water depth measured to within 0.01 ft.?			N/A
Low-flow sampling field measurements (if applicable)			
S.C ± 10%			N/A
pH - \pm 0.2 pH units			N/A
Temperature - \pm 10%			N/A
Turbidity - ±5 NTU			N/A
Documentation of field activities			
Site-specific information documented in field notebook?	X		
Field data sheets completed?	\mathbf{X}		
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system			
identified in QAPP?	\mathbf{X}		
Chain-of-Custody records			
Chain-of-Custody forms completed?	\mathbf{X}		



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST (Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMITS?

	YES	NO	COMMENTS
Trip blanks			
Trip blanks submitted, one per day?	$\overline{\mathbf{X}}$		
Any compounds detected in trip blanks?		\mathbf{X}	
Duplicate samples			
Field duplicates performed, 1/20 samples?	X		
Duplicates performed on 10% of samples screened			
for explosives?			N/A
Is percent difference within 30% for all field parameters?		\mathbf{X}	
Equipment blanks			
Equipment blanks submitted, one per sampling day?			N/A
Any compounds detected in equipment blank?			N/A
Split samples (if any)			
Split samples collected?			N/A
Is percent difference within 30% for split samples?			N/A
2. LABORATORY MEASUREMENTS:			
Trip blanks			
Trip blanks submitted, one per day?	\mathbf{X}		
Any compounds detected in trip blanks?		\mathbf{X}	
Instrument blanks**			N/A
Laboratory control samples**	\mathbf{X}		
Duplicates samples**	\mathbf{X}		
Equipment blanks**			N/A
Matrix spike/matrix spike duplicates**			N/A
Analysis type	X		
Chain-of-Custody records	X		
Surrogate recoveries**	$\overline{\mathbf{X}}$		
Sample Project Narratives	X		
Split samples (if any)**			N/A
Most recent EPA WP-PE sample results**			
1			



Appendix E

Groundwater Laboratory Analytical Reports



Modified Tier II Data Validation Narrative

Project: 20181545.B10, 20 Privilege Street, Woonsocket, RI

Con-Test Analytical Laboratory Project Number:	21G0947 and 21I0526
Date Samples Received at Laboratory:	July 6, 2021 and September 10, 2021
Date of Review:	September 20, 2021

Four groundwater samples, plus one duplicate sample, were collected and submitted to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts. The samples were analyzed for the following analytes using the designated methods:

Groundwater:

• Volatile Organic Compounds (VOC) via USEPA Method 8260

In addition, one laboratory-supplied trip blank was submitted for analysis of VOC by USEPA Method 8260. Dedicated sampling equipment was utilized, so equipment blanks and field blanks were not collected during these sampling activities.

No compounds were detected in the trip blanks at concentrations exceeding laboratory detection limits. Samples were received by the laboratory at 2.0 Celsius. All samples were analyzed within the method-specific holding times.

As documented in the case narrative summary included in the analytical reports 21G0947 and 21I0526, the following non-conformances were identified during analysis of these samples:

21G0947:

- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for Bromomethane. Data validation is not affected since sample result was "not detected" for this compound.
- Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this Bromomethane. Reported results were estimated for Bromomethane for all samples.

21I056:

- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for Vinyl Chloride.
- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for 2-Hexanone, 4-Methyl-2-pentanone, Bromoform, and trans-1,4-Dichloro-2butene. Data validation is not affected since sample result was "not detected" for these compound.
- Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this Bromomethane. Reported results were estimated for Bromomethane for all samples.

No VOC of concern were identified in site groundwater. Therefore, the non-conformances during VOC analysis were not anticipated to affect the usability of the data.



Analytical results for the groundwater samples were compared to the Method 1 GB Groundwater Objectives promulgated by the Rhode Island Department of Environmental Management. Detection limits were low enough to allow direct comparison to the applicable criteria.

July 21, 2021

Madelyn Sampson Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908

Project Location: Woonsocket, RI

Client Job Number:

Project Number: 20181545.B10

Laboratory Work Order Number: 21G0947

Jessica Hoffman

Enclosed are results of analyses for samples received by the laboratory on July 16, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman Project Manager

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Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 7/21/2021

PURCHASE ORDER NUMBER: 154320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0947

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Woonsocket, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1543210715-01	21G0947-01	Water		SW-846 8260C-D	
1543210715-02	21G0947-02	Water		SW-846 8260C-D	
1543210715-03	21G0947-03	Water		SW-846 8260C-D	
1543210715-04	21G0947-04	Water		SW-846 8260C-D	
1543210715-05	21G0947-05	Water		SW-846 8260C-D	
1543210715-06	21G0947-06	Water		SW-846 8260C-D	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C-D

Qualifications:

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B286265-BSD1, S061643-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated

Analyte & Samples(s) Qualified:

Bromomethane

21G0947-01[1543210715-01], 21G0947-02[1543210715-02], 21G0947-03[1543210715-03], 21G0947-04[1543210715-04], 21G0947-05[1543210715-05], 21G0947-05[1540715-05], 21G0947-05[1560715-05], 21G0947-05[1560715-05], 21G0947-05[1560715-05], 21G021G0947-06[1543210715-06], B286265-BLK1, B286265-BS1, B286265-BSD1, S061643-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Technical Representative

Lua Warrengton



Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021 Field Sample #: 1543210715-01

Sampled: 7/15/2021 08:26

Sample ID: 21G0947-01
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Volatile Organic Co Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1	ring/Quui	SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Bromobenzene	ND	1.0	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Bromochloromethane	ND	1.0		1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Bromoform	ND ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21		
Bromomethane	ND	2.0	μg/L	1	37.24			7/19/21 14:12 7/19/21 14:12	MFF MFF
2-Butanone (MEK)			μg/L		V-34	SW-846 8260C-D	7/19/21		
`	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Carbon Disulfide	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Carbon Tetrachloride	ND	5.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Chlorodibromomethane	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Chloroethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Chloroform	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Chloromethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
2-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
4-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Dibromomethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
2,2-Dichloropropane	ND	1.0	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1-Dichloropropene	ND ND	2.0		1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
cis-1,3-Dichloropropene	ND ND	0.50	μg/L	1		SW-846 8260C-D			MFF
			μg/L				7/19/21	7/19/21 14:12	
trans-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12 Page 5 (MFF

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Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-01

Sampled: 7/15/2021 08:26

Sample ID: 21G0947-01
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Methyl Acetate	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1,2-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:12	MFF
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual				
1.2 Dishlarasthana d4		100	70.120					7/10/21 14.12	



Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-02

Sampled: 7/15/2021 09:50

Sample ID: 21G0947-02
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Volatile Organic Con Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1	riag/Quar	SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Bromobenzene	ND	1.0		1					MFF
Bromochloromethane	ND ND		μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	
Bromodichloromethane		1.0	μg/L			SW-846 8260C-D SW-846 8260C-D	7/19/21	7/19/21 14:39 7/19/21 14:39	MFF
Bromoform	ND	0.50	μg/L	1			7/19/21		MFF
Bromomethane	ND	1.0	μg/L	1	37.24	SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
	ND	2.0	μg/L	1	V-34	SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
2-Butanone (MEK)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Carbon Disulfide	ND	5.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Carbon Tetrachloride	ND	5.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Chlorodibromomethane	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Chloroethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Chloroform	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Chloromethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
2-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
4-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
2,2-Dichloropropane	ND ND	1.0		1		SW-846 8260C-D		7/19/21 14:39	MFF
1,1-Dichloropropene			μg/L				7/19/21		
cis-1,3-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF

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Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-02

Sampled: 7/15/2021 09:50

Sample ID: 21G0947-02
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Methyl Acetate	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Tetrachloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Tetrahydrofuran	ND	10	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Toluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2,3-Trichlorobenzene	ND	5.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2,4-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1,1-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1,2-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Trichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2,3-Trichloropropane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 14:39	MFF
Surrogates		% Recovery	Recovery Limit		Flag/Qual				

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		7/19/21 14:39
Toluene-d8	96.6	70-130		7/19/21 14:39
4-Bromofluorobenzene	93.7	70-130		7/19/21 14:39



Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021 Field Sample #: 1543210715-03

Sampled: 7/15/2021 09:52

Sample ID: 21G0947-03
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Volatile Organic Co Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1	riag/Quai	SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Acrylonitrile	ND	5.0	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50		1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Bromobenzene	ND ND	1.0	μg/L						
Bromochloromethane			μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Bromodichloromethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Bromoform	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Bromomethane	ND	1.0	μg/L	1	37.24	SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
	ND	2.0	μg/L	1	V-34	SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
2-Butanone (MEK)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Carbon Disulfide	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Chlorodibromomethane	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Chloroethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Chloroform	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Chloromethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
2-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
4-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,3-Dichloropropane	ND	0.50	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
2,2-Dichloropropane	ND	1.0		1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1-Dichloropropene			μg/L						
	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF

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Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-03

Sampled: 7/15/2021 09:52

Sample ID: 21G0947-03
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Methyl Acetate	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
o-Xylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:06	MFF
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual			=/10/21 1= 05	

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		7/19/21 15:06
Toluene-d8	97.0	70-130		7/19/21 15:06
4-Bromofluorobenzene	93.4	70-130		7/19/21 15:06



Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-04

Sampled: 7/15/2021 11:33

Sample ID: 21G0947-04
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Volatile Organic Co Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1	g	SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Bromobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Bromochloromethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Bromoform	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Bromomethane	ND	2.0	μg/L	1	V-34	SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
2-Butanone (MEK)	ND	20	μg/L	1	, 31	SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
tert-Butylbenzene	ND	1.0		1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Carbon Disulfide	ND ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Chlorobenzene			μg/L						
Chlorodibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,3-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,4-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
cis-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
trans-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2-Dichloropropane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,3-Dichloropropane	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
2,2-Dichloropropane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1-Dichloropropene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
cis-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
trans-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Diethyl Ether	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF

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Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-04

Sampled: 7/15/2021 11:33

Sample ID: 21G0947-04
Sample Matrix: Water

Volatile	Organic	Compounds	by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Methyl Acetate	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 15:33	MFF
Surrogates		% Recovery	Recovery Limits	s	Flag/Qual	<u> </u>			
1,2-Dichloroethane-d4		102	70-130					7/19/21 15:33	



Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-05

Sampled: 7/15/2021 12:49

Sample ID: 21G0947-05
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Bromobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Bromochloromethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Bromoform	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Bromomethane	ND	2.0	μg/L	1	V-34	SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
2-Butanone (MEK)	ND	20	μg/L	1	, 31	SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
n-Butylbenzene	ND	1.0		1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
sec-Butylbenzene	ND ND	1.0	μg/L	1					MFF
•			μg/L			SW-846 8260C-D	7/19/21	7/19/21 16:00	
tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Carbon Disulfide	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Chloromethane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
2-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
4-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Dibromomethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,3-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,4-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Diethyl Ether	ND	2.0		1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
z.e, i zaiei	ND	2.0	μg/L	1		3 W-040 0200C-D	//17/21	Page 13	

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Work Order: 21G0947



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Description:

Project Location: Woonsocket, RI
Date Received: 7/16/2021
Field Sample #: 1543210715-05

Sampled: 7/15/2021 12:49

Sample ID: 21G0947-05
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Methyl Acetate	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:00	MFF
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual	<u> </u>			
1,2-Dichloroethane-d4		103	70-130					7/19/21 16:00	



Project Location: Woonsocket, RI Sample Description: Work Order: 21G0947

Date Received: 7/16/2021

Field Sample #: 1543210715-06

Sampled: 7/15/2021 13:51

Sample ID: 21G0947-06
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Volatile Organic Co Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1	g	SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Bromobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Bromochloromethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Bromoform	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Bromomethane	ND	2.0	μg/L	1	V-34	SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
2-Butanone (MEK)	ND	20	μg/L	1	, 31	SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
sec-Butylbenzene	ND	1.0	μg/L μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
tert-Butylbenzene	ND	1.0		1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Carbon Disulfide	ND ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Chlorobenzene			μg/L						
Chlorodibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Chlorostone	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
2,2-Dichloropropane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1-Dichloropropene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
cis-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
trans-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Diethyl Ether	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF

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Sample Description: Work Order: 21G0947

Project Location: Woonsocket, RI
Date Received: 7/16/2021
Field Sample #: 1543210715-06

Sampled: 7/15/2021 13:51

Sample ID: 21G0947-06
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Methyl Acetate	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1,1-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1,2-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Trichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2,3-Trichloropropane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	7/19/21	7/19/21 16:27	MFF
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				



Sample Extraction Data

Prep Method: SW-846 5030B Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G0947-01 [1543210715-01]	B286265	5	5.00	07/19/21
21G0947-02 [1543210715-02]	B286265	5	5.00	07/19/21
21G0947-03 [1543210715-03]	B286265	5	5.00	07/19/21
21G0947-04 [1543210715-04]	B286265	5	5.00	07/19/21
21G0947-05 [1543210715-05]	B286265	5	5.00	07/19/21
21G0947-06 [1543210715-06]	B286265	5	5.00	07/19/21



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286265 - SW-846 5030B										
Blank (B286265-BLK1)				Prepared &	Analyzed: 07	/19/21				
Acetone	ND	50	μg/L							
Acrylonitrile	ND	5.0	$\mu g/L$							
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$							
Benzene	ND	1.0	$\mu g/L$							
Bromobenzene	ND	1.0	$\mu g/L$							
Bromochloromethane	ND	1.0	$\mu g/L$							
Bromodichloromethane	ND	0.50	$\mu g/L$							
Bromoform	ND	1.0	$\mu g/L$							
Bromomethane	ND	2.0	μg/L							V-34
2-Butanone (MEK)	ND	20	μg/L							
tert-Butyl Alcohol (TBA)	ND	20	μg/L							
n-Butylbenzene	ND	1.0	μg/L							
sec-Butylbenzene	ND	1.0	μg/L							
tert-Butylbenzene	ND	1.0	μg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L							
Carbon Disulfide	ND	5.0	μg/L							
Carbon Tetrachloride	ND	5.0	μg/L							
Chlorobenzene	ND	1.0	μg/L							
Chlorodibromomethane Chloroethane	ND	0.50	μg/L							
Chloroform	ND	2.0	μg/L							
Chloromethane	ND	2.0	μg/L							
2-Chlorotoluene	ND	2.0 1.0	μg/L							
4-Chlorotoluene	ND	1.0	μg/L μg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L μg/L							
1,2-Dibromoethane (EDB)	ND	0.50	μg/L μg/L							
Dibromomethane	ND ND	1.0	μg/L μg/L							
1,2-Dichlorobenzene	ND ND	1.0	μg/L μg/L							
1,3-Dichlorobenzene	ND ND	1.0	μg/L							
1,4-Dichlorobenzene	ND ND	1.0	μg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L							
1,1-Dichloroethane	ND ND	1.0	μg/L							
1,2-Dichloroethane	ND	1.0	μg/L							
1,1-Dichloroethylene	ND	1.0	μg/L							
cis-1,2-Dichloroethylene	ND	1.0	μg/L							
trans-1,2-Dichloroethylene	ND	1.0	μg/L							
1,2-Dichloropropane	ND	1.0	μg/L							
1,3-Dichloropropane	ND	0.50	μg/L							
2,2-Dichloropropane	ND	1.0	$\mu g/L$							
1,1-Dichloropropene	ND	2.0	$\mu g/L$							
cis-1,3-Dichloropropene	ND	0.50	$\mu g/L$							
trans-1,3-Dichloropropene	ND	0.50	$\mu g/L$							
Diethyl Ether	ND	2.0	$\mu g/L$							
Diisopropyl Ether (DIPE)	ND	0.50	$\mu g/L$							
1,4-Dioxane	ND	50	$\mu g/L$							
Ethylbenzene	ND	1.0	$\mu g/L$							
Hexachlorobutadiene	ND	0.60	$\mu g/L$							
2-Hexanone (MBK)	ND	10	$\mu g/L$							
Isopropylbenzene (Cumene)	ND	1.0	$\mu g/L$							
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu g/L$							
Methyl Acetate	ND	1.0	$\mu g/L$							



QUALITY CONTROL

Spike

Source

%REC

RPD

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B286265 - SW-846 5030B											_
Blank (B286265-BLK1)				Prepared & A	Analyzed: 07	/19/21					
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$								
Methyl Cyclohexane	ND	1.0	μg/L								
Methylene Chloride	ND	5.0	$\mu g/L$								
-Methyl-2-pentanone (MIBK)	ND	10	$\mu g/L$								
Vaphthalene	ND	2.0	$\mu g/L$								
-Propylbenzene	ND	1.0	$\mu g/L$								
tyrene	ND	1.0	$\mu g/L$								
1,1,2-Tetrachloroethane	ND	1.0	$\mu g/L$								
1,2,2-Tetrachloroethane	ND	0.50	$\mu g/L$								
etrachloroethylene	ND	1.0	$\mu g/L$								
etrahydrofuran	ND	10	$\mu g/L$								
oluene	ND	1.0	$\mu g/L$								
2,3-Trichlorobenzene	ND	5.0	$\mu g/L$								
,2,4-Trichlorobenzene	ND	1.0	$\mu g/L$								
,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$								
1,1-Trichloroethane	ND	1.0	$\mu g/L$								
1,2-Trichloroethane	ND	1.0	μg/L								
richloroethylene	ND	1.0	μg/L								
richlorofluoromethane (Freon 11)	ND	2.0	μg/L								
2,3-Trichloropropane	ND	2.0	μg/L								
1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND	1.0	μg/L								
3)											
2,3-Trimethylbenzene	ND	0.50	μg/L								
2,4-Trimethylbenzene	ND	1.0	$\mu g/L$								
3,5-Trimethylbenzene	ND	1.0	μg/L								
inyl Chloride	ND	2.0	μg/L								
n+p Xylene	ND	2.0	μg/L								
-Xylene	ND	1.0	μg/L								
urrogate: 1,2-Dichloroethane-d4	25.2		μg/L	25.0		101	70-130				
urrogate: Toluene-d8	24.2		$\mu g/L$	25.0		96.9	70-130				
urrogate: 4-Bromofluorobenzene	23.6		$\mu g/L$	25.0		94.6	70-130				
CS (B286265-BS1)				Prepared &	Analyzed: 07	/19/21					
cetone	90.8	50	μg/L	100		90.8	70-160				
crylonitrile	10.7	5.0	μg/L	10.0		107	70-130				
rt-Amyl Methyl Ether (TAME)	10.6	0.50	$\mu g/L$	10.0		106	70-130				
enzene	9.90	1.0	μg/L	10.0		99.0	70-130				
romobenzene	10.6	1.0	μg/L	10.0		106	70-130				
romochloromethane	11.4	1.0	μg/L	10.0		114	70-130				
romodichloromethane	10.7	0.50	μg/L	10.0		107	70-130				
romoform	11.2	1.0	μg/L	10.0		112	70-130				
romomethane	12.1	2.0	μg/L	10.0		121	40-160			V-34	
Butanone (MEK)	101	20	μg/L	100		101	40-160				
rt-Butyl Alcohol (TBA)	95.5	20	μg/L	100		95.5	40-160				
Butylbenzene	10.2	1.0	μg/L	10.0		102	70-130				
ec-Butylbenzene	10.2	1.0	μg/L μg/L	10.0		102	70-130				
rt-Butylbenzene	10.2	1.0	μg/L μg/L	10.0		102	70-130				
rt-Butyl Ethyl Ether (TBEE)	10.2	0.50	μg/L μg/L	10.0		102	70-130				
arbon Disulfide		5.0	μg/L μg/L	10.0			70-130				
arbon Disumde arbon Tetrachloride	103	5.0				103					
	10.5		μg/L	10.0		105	70-130				
hlorodibromomethane	10.5	1.0	μg/L	10.0		105	70-130				
hlorodibromomethane	10.8	0.50	μg/L	10.0		108	70-130				
Chloroethane	10.3	2.0	μg/L	10.0		103	70-130		_	age 19 (_



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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286265 - SW-846 5030B										
LCS (B286265-BS1)				Prepared &	Analyzed: 07	/19/21				
Chloroform	10.1	2.0	$\mu g/L$	10.0		101	70-130			
Chloromethane	11.0	2.0	$\mu g/L$	10.0		110	40-160			
2-Chlorotoluene	9.84	1.0	$\mu g/L$	10.0		98.4	70-130			
4-Chlorotoluene	10.2	1.0	$\mu g/L$	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.54	5.0	$\mu g/L$	10.0		95.4	70-130			
,2-Dibromoethane (EDB)	10.8	0.50	$\mu g/L$	10.0		108	70-130			
Dibromomethane	11.1	1.0	$\mu g/L$	10.0		111	70-130			
,2-Dichlorobenzene	10.6	1.0	$\mu g/L$	10.0		106	70-130			
,3-Dichlorobenzene	10.6	1.0	$\mu g/L$	10.0		106	70-130			
1,4-Dichlorobenzene	10.5	1.0	$\mu g/L$	10.0		105	70-130			
rans-1,4-Dichloro-2-butene	12.0	2.0	$\mu g/L$	10.0		120	70-130			
Dichlorodifluoromethane (Freon 12)	9.20	2.0	$\mu g/L$	10.0		92.0	40-160			
1,1-Dichloroethane	10.4	1.0	$\mu g/L$	10.0		104	70-130			
1,2-Dichloroethane	10.2	1.0	$\mu g/L$	10.0		102	70-130			
1,1-Dichloroethylene	10.1	1.0	$\mu g/L$	10.0		101	70-130			
cis-1,2-Dichloroethylene	10.3	1.0	μg/L	10.0		103	70-130			
rans-1,2-Dichloroethylene	9.38	1.0	μg/L	10.0		93.8	70-130			
1,2-Dichloropropane	10.9	1.0	μg/L	10.0		109	70-130			
1,3-Dichloropropane	10.8	0.50	μg/L	10.0		108	70-130			
2,2-Dichloropropane	11.0	1.0	μg/L	10.0		110	40-130			
,1-Dichloropropene	10.0	2.0	μg/L	10.0		100	70-130			
sis-1,3-Dichloropropene	10.8	0.50	μg/L	10.0		108	70-130			
rans-1,3-Dichloropropene	11.1	0.50	μg/L	10.0		111	70-130			
Diethyl Ether	10.6	2.0	μg/L	10.0		106	70-130			
Diisopropyl Ether (DIPE)	10.5	0.50	μg/L	10.0		105	70-130			
1,4-Dioxane	88.8	50	μg/L	100		88.8	40-130			
Ethylbenzene	10.2	1.0	μg/L	10.0		102	70-130			
Hexachlorobutadiene	10.1	0.60	μg/L	10.0		101	70-130			
2-Hexanone (MBK)	102	10	μg/L	100		102	70-160			
Isopropylbenzene (Cumene)	10.1	1.0	μg/L	10.0		101	70-130			
p-Isopropyltoluene (p-Cymene)	10.1	1.0	μg/L	10.0		101	70-130			
Methyl Acetate	9.88	1.0	μg/L	10.0		98.8	70-130			
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	μg/L	10.0		105	70-130			
Methyl Cyclohexane	9.87	1.0	μg/L	10.0		98.7	70-130			
Methylene Chloride	11.0	5.0	μg/L	10.0		110	70-130			
4-Methyl-2-pentanone (MIBK)	102	10	μg/L μg/L	100		102	70-150			
Naphthalene	8.22	2.0	μg/L μg/L	10.0		82.2	40-130			
n-Propylbenzene		1.0	μg/L μg/L	10.0		103	70-130			
Styrene	10.3	1.0								
1,1,1,2-Tetrachloroethane	10.3	1.0	μg/L μg/I	10.0		103	70-130			
1,1,2-Tetrachloroethane	10.9	0.50	μg/L μg/I	10.0		109	70-130 70-130			
Tetrachloroethylene	10.8	1.0	μg/L μg/I	10.0		108	70-130			
Tetrabydrofuran	10.2		μg/L	10.0		102	70-130			
-	10.2	10	μg/L	10.0		102	70-130			
Foluene	10.1	1.0	μg/L	10.0		101	70-130			
,2,3-Trichlorobenzene	9.08	5.0	μg/L	10.0		90.8	70-130			
1,2,4-Trichlorobenzene	9.59	1.0	μg/L	10.0		95.9	70-130			
1,3,5-Trichlorobenzene	9.83	1.0	μg/L	10.0		98.3	70-130			
1,1,1-Trichloroethane	10.4	1.0	μg/L	10.0		104	70-130			
1,1,2-Trichloroethane	10.8	1.0	μg/L	10.0		108	70-130			
Trichloroethylene	10.4	1.0	μg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	10.3	2.0	μg/L	10.0		103	70-130			
1,2,3-Trichloropropane	11.0	2.0	$\mu g/L$	10.0		110	70-130			



QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286265 - SW-846 5030B										
LCS (B286265-BS1)				Prepared & A	Analyzed: 07	/19/21				
,1,2-Trichloro-1,2,2-trifluoroethane (Freon	10.6	1.0	μg/L	10.0		106	70-130			
113)		0.50	/1	40.0			=0.400			
,2,3-Trimethylbenzene	9.82	0.50	μg/L	10.0		98.2	70-130			
,2,4-Trimethylbenzene	10.1	1.0	μg/L	10.0		101	70-130			
,3,5-Trimethylbenzene	10.0	1.0	μg/L	10.0		100	70-130			
Vinyl Chloride	10.1	2.0	μg/L	10.0		101	40-160			
n+p Xylene	20.5	2.0	μg/L	20.0		103	70-130			
-Xylene	10.5	1.0	μg/L	10.0		105	70-130			
urrogate: 1,2-Dichloroethane-d4	24.8		μg/L	25.0		99.3	70-130			
urrogate: Toluene-d8	23.9		μg/L	25.0		95.6	70-130			
urrogate: 4-Bromofluorobenzene	24.3		μg/L	25.0		97.2	70-130			
.CS Dup (B286265-BSD1)				Prepared & A	Analyzed: 07	/19/21				
Acetone	92.6	50	μg/L	100	<u>-</u>	92.6	70-160	2.05	25	
crylonitrile	10.7	5.0	μg/L	10.0		107	70-130	0.467	25	
ert-Amyl Methyl Ether (TAME)	10.2	0.50	μg/L	10.0		102	70-130	4.33	25	
Benzene	9.55	1.0	μg/L	10.0		95.5	70-130	3.60	25	
romobenzene	10.2	1.0	μg/L	10.0		102	70-130	4.43	25	
romochloromethane	11.3	1.0	μg/L	10.0		113	70-130	0.615	25	
romodichloromethane	10.4	0.50	μg/L	10.0		104	70-130	3.22	25	
romoform	11.0	1.0	μg/L	10.0		110	70-130	1.62	25	
romomethane	11.7	2.0	μg/L	10.0		117	40-160	3.19	25	V-20, V-34
Butanone (MEK)	97.8	20	μg/L	100		97.8	40-160	3.20	25	,
rt-Butyl Alcohol (TBA)	94.7	20	μg/L	100		94.7	40-160	0.820	25	
Butylbenzene	9.86	1.0	μg/L	10.0		98.6	70-130	3.00	25	
cc-Butylbenzene	10.0	1.0	μg/L	10.0		100	70-130	1.38	25	
rt-Butylbenzene	9.92	1.0	μg/L	10.0		99.2	70-130	2.29	25	
rt-Butyl Ethyl Ether (TBEE)	10.6	0.50	μg/L	10.0		106	70-130	2.32	25	
arbon Disulfide	100	5.0	μg/L	100		100	70-130	2.51	25	
arbon Tetrachloride	10.1	5.0	μg/L	10.0		101	70-130	3.99	25	
Chlorobenzene	10.1	1.0	μg/L	10.0		101	70-130	3.40	25	
Chlorodibromomethane	10.7	0.50	μg/L	10.0		107	70-130	1.40	25	
hloroethane	10.5	2.0	μg/L	10.0		105	70-130	1.25	25	
hloroform	9.87	2.0	μg/L	10.0		98.7	70-130	2.50	25	
Chloromethane	10.9	2.0	μg/L	10.0		109	40-160	0.457	25	
-Chlorotoluene	9.54	1.0	μg/L	10.0		95.4	70-130	3.10	25	
-Chlorotoluene	10.1	1.0	μg/L	10.0		101	70-130	0.985	25	
,2-Dibromo-3-chloropropane (DBCP)	9.54	5.0	μg/L	10.0		95.4	70-130	0.00	25	
,2-Dibromoethane (EDB)	10.5	0.50	μg/L	10.0		105	70-130	2.91	25	
ibromomethane	11.0	1.0	μg/L	10.0		110	70-130	1.27	25	
,2-Dichlorobenzene	10.5	1.0	μg/L	10.0		105	70-130	0.853	25	
3-Dichlorobenzene	10.4	1.0	μg/L μg/L	10.0		103	70-130	2.29	25	
4-Dichlorobenzene	10.4	1.0	μg/L μg/L	10.0		104	70-130	1.34	25	
ans-1,4-Dichloro-2-butene	10.4	2.0	μg/L μg/L	10.0		115	70-130	4.42	25	
ichlorodifluoromethane (Freon 12)	8.66	2.0	μg/L	10.0		86.6	40-160	6.05	25	
1-Dichloroethane	10.4	1.0	μg/L μg/L	10.0		104	70-130	0.00	25	
2-Dichloroethane	9.78	1.0	μg/L	10.0		97.8	70-130	3.81	25	
1-Dichloroethylene	9.78	1.0	μg/L μg/L	10.0		97.8	70-130	3.02	25	
s-1,2-Dichloroethylene		1.0	μg/L μg/L	10.0		102	70-130	1.66	25	
ans-1,2-Dichloroethylene	10.2	1.0	μg/L μg/L	10.0		92.7	70-130	1.18	25	
2-Dichloropropane	9.27	1.0	μg/L μg/L	10.0		104	70-130	4.32	25 25	
,3-Dichloropropane	10.4 10.5	0.50	μg/L μg/L	10.0		104	70-130	2.90	25	
,2-Dichloropropane		1.0	μg/L μg/L	10.0						
,2 Diemoropropune	10.5	1.0	μg/L	10.0		105	40-130	4.76	25	Page 21 o



QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

		Reporting		Spike	Source	%REC		RPD		
Analyte	Result	Limit	Units	Level	Result %REC	Limits	RPD	Limit	Notes	
Batch B286265 - SW-846 5030B										_
LCS Dup (B286265-BSD1)				Prepared &	Analyzed: 07/19/21					
1,1-Dichloropropene	9.77	2.0	μg/L	10.0	97.7	70-130	2.53	25		_
cis-1,3-Dichloropropene	10.3	0.50	μg/L	10.0	103	70-130	5.22	25		
trans-1,3-Dichloropropene	10.5	0.50	$\mu g/L$	10.0	105	70-130	5.75	25		
Diethyl Ether	10.5	2.0	$\mu g/L$	10.0	105	70-130	0.570	25		
Diisopropyl Ether (DIPE)	10.2	0.50	$\mu g/L$	10.0	102	70-130	2.41	25		
1,4-Dioxane	95.5	50	$\mu g/L$	100	95.5	40-130	7.31	50		†
Ethylbenzene	9.87	1.0	$\mu g/L$	10.0	98.7	70-130	3.09	25		
Hexachlorobutadiene	9.98	0.60	$\mu g/L$	10.0	99.8	70-130	1.49	25		
2-Hexanone (MBK)	102	10	$\mu g/L$	100	102	70-160	0.137	25		†
Isopropylbenzene (Cumene)	9.89	1.0	$\mu g/L$	10.0	98.9	70-130	2.00	25		
p-Isopropyltoluene (p-Cymene)	9.98	1.0	μg/L	10.0	99.8	70-130	1.20	25		
Methyl Acetate	10.1	1.0	μg/L	10.0	101	70-130	2.60	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	μg/L	10.0	102	70-130	3.39	25		
Methyl Cyclohexane	9.63	1.0	μg/L	10.0	96.3	70-130	2.46	25		
Methylene Chloride	11.0	5.0	μg/L	10.0	110	70-130	0.273	25		
4-Methyl-2-pentanone (MIBK)	101	10	μg/L	100	101	70-160	1.08	25		†
Naphthalene	8.19	2.0	μg/L	10.0	81.9	40-130	0.366	25		†
n-Propylbenzene	9.80	1.0	μg/L	10.0	98.0	70-130	4.59	25		
Styrene	9.95	1.0	μg/L	10.0	99.5	70-130	3.75	25		
1,1,1,2-Tetrachloroethane	10.7	1.0	μg/L	10.0	107	70-130	1.67	25		
1,1,2,2-Tetrachloroethane	10.9	0.50	μg/L	10.0	109	70-130	1.02	25		
Tetrachloroethylene	9.68	1.0	μg/L	10.0	96.8	70-130	4.74	25		
Tetrahydrofuran	9.94	10	μg/L	10.0	99.4	70-130	2.68	25		
Toluene	9.70	1.0	μg/L	10.0	97.0	70-130	4.04	25		
1,2,3-Trichlorobenzene	8.87	5.0	μg/L	10.0	88.7	70-130	2.34	25		
1,2,4-Trichlorobenzene	9.29	1.0	μg/L	10.0	92.9	70-130	3.18	25		
1,3,5-Trichlorobenzene	9.81	1.0	μg/L	10.0	98.1	70-130	0.204	25		
1,1,1-Trichloroethane	9.92	1.0	μg/L	10.0	99.2	70-130	5.20	25		
1,1,2-Trichloroethane	10.4	1.0	μg/L	10.0	104	70-130	3.78	25		
Trichloroethylene	10.1	1.0	μg/L	10.0	101	70-130	2.93	25		
Trichlorofluoromethane (Freon 11)	9.93	2.0	μg/L	10.0	99.3	70-130	3.37	25		
1,2,3-Trichloropropane	10.8	2.0	μg/L	10.0	108	70-130	2.11	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	μg/L	10.0	103	70-130	3.07	25		
1,2,3-Trimethylbenzene	9.68	0.50	μg/L	10.0	96.8	70-130	1.44	25		
1,2,4-Trimethylbenzene	9.90	1.0	μg/L	10.0	99.0	70-130	1.80	25		
1,3,5-Trimethylbenzene	9.67	1.0	μg/L	10.0	96.7	70-130	3.75	25		
Vinyl Chloride	9.63	2.0	μg/L	10.0	96.3	40-160	4.96	25		†
m+p Xylene	19.9	2.0	μg/L	20.0	99.6	70-130	3.11	25		'
o-Xylene	10.1	1.0	μg/L	10.0	101	70-130	3.79	25		
Surrogate: 1,2-Dichloroethane-d4	24.7		μg/L	25.0	98.9	70-130				_
Surrogate: Toluene-d8	24.2		$\mu g/L$	25.0	96.6	70-130				
Surrogate: 4-Bromofluorobenzene	24.2		$\mu g/L$	25.0	96.8	70-130				



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side
	Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for thi compound. Reported result is estimated.



CERTIFICATIONS

Certifications

Certified Analyses included in this Report

Analyte

Analyte		Certifications
SW-846 8260C-D	in Water	
Acetone		CT,ME,NH,VA,NY
Acrylonitrile		CT,ME,NH,VA,NY
tert-Amyl Methy	yl Ether (TAME)	ME,NH,VA,NY
Benzene		CT,ME,NH,VA,NY
Bromobenzene		ME,NY
Bromochlorome	ethane	ME,NH,VA,NY
Bromodichloror	nethane	CT,ME,NH,VA,NY
Bromoform		CT,ME,NH,VA,NY
Bromomethane		CT,ME,NH,VA,NY
2-Butanone (MI	EK)	CT,ME,NH,VA,NY
tert-Butyl Alcoh	ol (TBA)	ME,NH,VA,NY
n-Butylbenzene		ME,VA,NY
sec-Butylbenzer	ne	ME,VA,NY
tert-Butylbenzer	ne	ME,VA,NY
tert-Butyl Ethyl	Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfid	e	CT,ME,NH,VA,NY
Carbon Tetrachl	oride	CT,ME,NH,VA,NY
Chlorobenzene		CT,ME,NH,VA,NY
Chlorodibromor	nethane	CT,ME,NH,VA,NY
Chloroethane		CT,ME,NH,VA,NY
Chloroform		CT,ME,NH,VA,NY
Chloromethane		CT,ME,NH,VA,NY
2-Chlorotoluene		ME,NH,VA,NY
4-Chlorotoluene	•	ME,NH,VA,NY
1,2-Dibromo-3-	chloropropane (DBCP)	ME,NY
1,2-Dibromoeth	ane (EDB)	ME,NY
Dibromomethan	ne e	ME,NH,VA,NY
1,2-Dichloroben	nzene	CT,ME,NH,VA,NY
1,3-Dichloroben	nzene	CT,ME,NH,VA,NY
1,4-Dichloroben	nzene	CT,ME,NH,VA,NY
trans-1,4-Dichlo	oro-2-butene	ME,NH,VA,NY
Dichlorodifluoro	omethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroeth	ane	CT,ME,NH,VA,NY
1,2-Dichloroeth	ane	CT,ME,NH,VA,NY
1,1-Dichloroeth	ylene	CT,ME,NH,VA,NY
cis-1,2-Dichloro	•	ME,NY
trans-1,2-Dichlo	proethylene	CT,ME,NH,VA,NY
1,2-Dichloropro		CT,ME,NH,VA,NY
1,3-Dichloropro	•	ME,VA,NY
2,2-Dichloropro		ME,NH,VA,NY
1,1-Dichloropro	•	ME,NH,VA,NY
cis-1,3-Dichloro		CT,ME,NH,VA,NY
trans-1,3-Dichlo	propropene	CT,ME,NH,VA,NY
Diethyl Ether	(DIDE)	ME,NY
Diisopropyl Eth	er (DIPE)	ME,NH,VA,NY
1,4-Dioxane		ME,NY
Ethylbenzene		CT,ME,NH,VA,NY



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY



Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publile Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



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	Project Location		PROJECT NUMBER		LABORATORY
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Sampler's Signature: Chuld, There	Date: 7/15/21				Sept of John of Sept o
Source Codes: MW=Monitoring Well PW=Potable Water T=Treatment Facility SW=Surface Water ST=Stormwater W=Waste A=Air	S=Soil B=Sediment C=Concrete			10 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /	ON STATE OF THE ST
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babe 2 (Amis Hanney F40 FAIGLE	7	01/5/30	Reporting and Detection Limit Requirements: CB - CO	C RCP Deliverables	D MCP CAM Gen.
7 of 28	3.0 7140	1745	Additional Comments:		Conten
,					13

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____



DOC# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client _		5 + O'Weill				r -			
Received	Ву	<u> </u>		Date	7/16/	21	Time	1245	
How were the	samples	In Cooler	T	No Cooler		On Ice		No Ice	
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Proper Media/	- Particular design and property of the property of	And the state of t			Is splitting	samples red	quired?	+	2
Were trip blan			1		On COC?	T	35	r	
Do all samples		COLORS 100		Acid	nla		Base		•
Vials	#	Containers:	#			#			ij
Unp-		1 Liter Amb.		1 Liter	Plastic			Amb.	
HCL-	[7	500 mL Amb.			. Plastic		4	nb/Clear	
Meoh-		250 mL Amb.			_ Plastic		1	nb/Clear	
Bisulfate-		Flashpoint			acteria			nb/Clear	
DI-		Other Glass			Plastic			core	
Thiosulfate-		SOC Kit			ic Bag		Frozen:		
Sulfuric-		Perchlorate			lock				
				Unused	Media				
Vials	#	Containers:	#	4.1.0	B:	#	46	A polic	#
Unp-		1 Liter Amb.			Plastic			: Amb. nb/Clear	<u> </u>
HCL-		500 mL Amb.			_ Plastic			nb/Clear	
Meoh-		250 mL Amb.			_ Plastic hpoint			nb/Clear	
Bisulfate-		Col./Bacteria Other Plastic			Glass			core	
DI- Thiosulfate-		SOC Kit			ic Bag		Frozen:		<u></u>
Sulfuric-		Perchlorate			lock				
Comments:						I			

September 16, 2021

Madelyn Sampson Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908

Project Location: Woonsocket, RI

Client Job Number:

Project Number: 20181545.B10

Laboratory Work Order Number: 21I0526

Jessica Hoffman

Enclosed are results of analyses for samples received by the laboratory on September 10, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman Project Manager

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Fuss & O'Neill - Providence 317 Iron Horse Way, Suite 204 Providence, RI 02908 ATTN: Madelyn Sampson

REPORT DATE: 9/16/2021

PURCHASE ORDER NUMBER: 160320181545.B10

PROJECT NUMBER: 20181545.B10

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21I0526

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Woonsocket, RI

 FIELD SAMPLE #
 LAB ID:
 MATRIX
 SAMPLE DESCRIPTION
 TEST
 SUB LAB

 1603210909-02
 2110526-02
 Water
 SW-846 8260C-D



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C-D

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Vinvl Chloride

21I0526-02[1603210909-02], B290082-BLK1, B290082-BS1, B290082-BSD1, S063206-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Hexanone (MBK)

B290082-BS1, B290082-BSD1, S063206-CCV1

4-Methyl-2-pentanone (MIBK)

B290082-BS1, B290082-BSD1, S063206-CCV1

Bromoform

B290082-BS1, B290082-BSD1, S063206-CCV1

trans-1,4-Dichloro-2-butene

B290082-BS1, B290082-BSD1, S063206-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

21I0526-02[1603210909-02], B290082-BLK1, B290082-BS1, B290082-BSD1, S063206-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

Jua Watshugtan



Project Location: Woonsocket, RI Sample Description: Work Order: 2110526

Date Received: 9/10/2021

Field Sample #: 1603210909-02

Sampled: 9/9/2021 14:43

Sample ID: 21I0526-02
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

			Volatile Organic Co	mpounds by G	C/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Benzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Bromobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Bromochloromethane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Bromoform	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Bromomethane	ND	2.0	μg/L	1	V-34	SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
2-Butanone (MEK)	ND	20	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Carbon Disulfide	ND	5.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Chloroform	ND	2.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
2,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1-Dichloropropene	ND	2.0	μg/L μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
cis-1,3-Dichloropropene	ND ND	0.50	μg/L μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
trans-1,3-Dichloropropene	ND ND	0.50	μg/L μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Diethyl Ether	ND ND	2.0	μg/L μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
y	110	2.0	µ5/L	1		5 11 0 10 0200C-D	7,13/21	Page 5 (

Page 5 of 18



Project Location: Woonsocket, RI Sample Description: Work Order: 2110526

Date Received: 9/10/2021 Field Sample #: 1603210909-02

Sampled: 9/9/2021 14:43

Sample ID: 21I0526-02
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,4-Dioxane	ND	50	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Hexachlorobutadiene	ND	0.60	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Methyl Acetate	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Methyl Cyclohexane	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Naphthalene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Styrene	ND	1.0	μg/L	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Tetrachloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Tetrahydrofuran	ND	10	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Toluene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1,1-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1,2-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Trichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2,3-Trichloropropane	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Vinyl Chloride	ND	2.0	$\mu g/L$	1	V-05	SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C-D	9/13/21	9/13/21 15:40	EEH
Surrogatos		0/. Dogovory	Dogovory Limit		Flog/Ouel				

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.3	70-130		9/13/21 15:40
Toluene-d8	95.3	70-130		9/13/21 15:40
4-Bromofluorobenzene	97.4	70-130		9/13/21 15:40



Sample Extraction Data

Prep Method: SW-846 5030B Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
2110526-02 [1603210909-02]	B290082	5	5.00	09/13/21



Dichlorodifluoromethane (Freon 12)

1,1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethylene

1,2-Dichloropropane

1,3-Dichloropropane

2,2-Dichloropropane

1,1-Dichloropropene

Diethyl Ether

1,4-Dioxane

Ethylbenzene

Hexachlorobutadiene

2-Hexanone (MBK)

Isopropylbenzene (Cumene)

p-Isopropyltoluene (p-Cymene)

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

Diisopropyl Ether (DIPE)

cis-1,2-Dichloroethylene

trans-1,2-Dichloroethylene

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Spike

Source

%REC

RPD

Volatile Organic Compounds by GC/MS - Quality Control

Reporting

		Reporting		Spike	Source		/OKEC		KrD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B290082 - SW-846 5030B										
Blank (B290082-BLK1)				Prepared &	Analyzed: 09	0/13/21				
Acetone	ND	50	μg/L							
Acrolein	ND	10	$\mu g/L$							
Acrylonitrile	ND	5.0	$\mu g/L$							
ert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$							
Benzene	ND	1.0	$\mu g/L$							
Bromobenzene	ND	1.0	$\mu g/L$							
Bromochloromethane	ND	1.0	$\mu g/L$							
Bromodichloromethane	ND	0.50	$\mu g/L$							
Bromoform	ND	1.0	$\mu g/L$							
Bromomethane	ND	2.0	$\mu g/L$							V-34
-Butanone (MEK)	ND	20	$\mu g/L$							
ert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$							
-Butylbenzene	ND	1.0	$\mu g/L$							
ec-Butylbenzene	ND	1.0	$\mu g/L$							
ert-Butylbenzene	ND	1.0	$\mu g/L$							
ert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$							
Carbon Disulfide	ND	5.0	$\mu g/L$							
Carbon Tetrachloride	ND	5.0	$\mu g/L$							
Chlorobenzene	ND	1.0	$\mu g/L$							
Chlorodibromomethane	ND	0.50	$\mu g/L$							
Chloroethane	ND	2.0	$\mu g/L$							
Chloroform	ND	2.0	$\mu g/L$							
Chloromethane	ND	2.0	$\mu g/L$							
-Chlorotoluene	ND	1.0	$\mu g/L$							
-Chlorotoluene	ND	1.0	$\mu g/L$							
,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	$\mu g/L$							
,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$							
Dibromomethane	ND	1.0	$\mu g/L$							
,2-Dichlorobenzene	ND	1.0	$\mu g/L$							
,3-Dichlorobenzene	ND	1.0	$\mu g/L$							
,4-Dichlorobenzene	ND	1.0	$\mu g/L$							
rans-1,4-Dichloro-2-butene	ND	2.0	$\mu g/L$							

 $\mu g/L$

 $\mu g/L$

2.0

1.0

1.0

1.0

1.0

1.0

1.0

0.50

1.0

2.0

0.50

0.50

2.0

0.50

50

1.0

0.60

10

1.0

1.0

ND

%REC

RPD



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Spike

Source

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch B290082 - SW-846 5030B										
Blank (B290082-BLK1)				Prepared &	Analyzed: 09	/13/21				
Methyl Acetate	ND	1.0	$\mu g/L$							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$							
Methyl Cyclohexane	ND	1.0	$\mu g/L$							
Methylene Chloride	ND	5.0	$\mu g/L$							
4-Methyl-2-pentanone (MIBK)	ND	10	$\mu g/L$							
Naphthalene	ND	2.0	μg/L							
n-Propylbenzene	ND	1.0	$\mu g/L$							
Styrene	ND	1.0	μg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L							
Tetrachloroethylene	ND	1.0	μg/L							
Tetrahydrofuran	ND	10	μg/L							
Toluene	ND	1.0	μg/L							
1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene	ND	5.0 1.0	μg/L							
1,3,5-Trichlorobenzene	ND	1.0	μg/L μg/I							
1,1,1-Trichloroethane	ND	1.0	μg/L μg/L							
1,1,2-Trichloroethane	ND	1.0	μg/L μg/L							
Frichloroethylene	ND ND	1.0	μg/L μg/L							
Trichlorofluoromethane (Freon 11)	ND ND	2.0	μg/L μg/L							
1,2,3-Trichloropropane	ND ND	2.0	μg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND ND	1.0	μg/L							
113)	ND		r-8-1							
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$							
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$							
Vinyl Chloride	ND	2.0	$\mu g/L$							V-05
m+p Xylene	ND	2.0	$\mu g/L$							
o-Xylene	ND	1.0	μg/L							
Surrogate: 1,2-Dichloroethane-d4	23.6		$\mu g/L$	25.0		94.5	70-130			
Surrogate: Toluene-d8	24.2		μg/L	25.0		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		μg/L	25.0		99.3	70-130			
LCS (B290082-BS1)				Prepared &	Analyzed: 09	/13/21				
Acetone	115	50	μg/L	100		115	70-160			
Acrolein	106	10	μg/L	100		106	70-130			
Acrylonitrile	11.9	5.0	μg/L	10.0		119	70-130			
ert-Amyl Methyl Ether (TAME)	10.3	0.50	μg/L	10.0		103	70-130			
Benzene	9.32	1.0	μg/L	10.0		93.2	70-130			
Bromobenzene	10.1	1.0	μg/L	10.0		101	70-130			
Bromochloromethane	11.0	1.0	μg/L	10.0		110	70-130			
Bromodichloromethane Bromoform	11.0	0.50	μg/L	10.0		110	70-130			X/ 20
Bromomethane	12.7	1.0 2.0	μg/L	10.0		127 98.5	70-130 40-160			V-20 V-34
2-Butanone (MEK)	9.85	2.0	μg/L μg/L	10.0 100		121	40-160			V-34
tert-Butyl Alcohol (TBA)	121 110	20	μg/L μg/L	100		110	40-160			
n-Butylbenzene	8.45	1.0	μg/L μg/L	10.0		84.5	70-130			
sec-Butylbenzene	8.43 8.70	1.0	μg/L μg/L	10.0		87.0	70-130			
ert-Butylbenzene	8.70	1.0	μg/L μg/L	10.0		87.2	70-130			
ert-Butyl Ethyl Ether (TBEE)	10.4	0.50	μg/L	10.0		104	70-130			
Carbon Disulfide	89.4	5.0	μg/L	100		89.4	70-130			
Carbon Tetrachloride	10.6	5.0	μg/L	10.0		106	70-130			
Chlorobenzene	10.0	1.0	μg/L	10.0		100	70-130			
Chlorodibromomethane	11.8	0.50	μg/L	10.0		118	70-130			
			-							Page 9 of 1

RPD

%REC



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Spike

Source

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B290082 - SW-846 5030B										
.CS (B290082-BS1)				Prepared & A	Analyzed: 09	/13/21				
Chloroethane	11.1	2.0	μg/L	10.0		111	70-130			
Chloroform	10.0	2.0	μg/L	10.0		100	70-130			
Chloromethane	7.95	2.0	μg/L	10.0		79.5	40-160			
-Chlorotoluene	8.73	1.0	μg/L	10.0		87.3	70-130			
-Chlorotoluene	9.59	1.0	μg/L	10.0		95.9	70-130			
,2-Dibromo-3-chloropropane (DBCP)	10.5	5.0	μg/L	10.0		105	70-130			
,2-Dibromoethane (EDB)	11.4	0.50	μg/L	10.0		114	70-130			
Dibromomethane	11.3	1.0	μg/L	10.0		113	70-130			
2-Dichlorobenzene	9.68	1.0	μg/L	10.0		96.8	70-130			
3-Dichlorobenzene	9.49	1.0	μg/L	10.0		94.9	70-130			
,4-Dichlorobenzene	9.49	1.0	μg/L	10.0		94.9	70-130			
ans-1,4-Dichloro-2-butene	12.8	2.0	μg/L	10.0		128	70-130			V-20
ichlorodifluoromethane (Freon 12)	9.44	2.0	μg/L	10.0		94.4	40-160			V-20
,1-Dichloroethane		1.0	μg/L μg/L	10.0		102	70-130			
2-Dichloroethane	10.2	1.0	μg/L μg/L							
,1-Dichloroethylene	10.2	1.0		10.0		102	70-130			
•	9.88		μg/L	10.0		98.8	70-130			
s-1,2-Dichloroethylene	10.0	1.0	μg/L	10.0		100	70-130			
ans-1,2-Dichloroethylene	9.09	1.0	μg/L	10.0		90.9	70-130			
2-Dichloropropane	10.5	1.0	μg/L	10.0		105	70-130			
3-Dichloropropane	10.7	0.50	μg/L	10.0		107	70-130			
2-Dichloropropane	10.5	1.0	μg/L	10.0		105	40-130			
1-Dichloropropene	9.34	2.0	μg/L	10.0		93.4	70-130			
s-1,3-Dichloropropene	10.6	0.50	$\mu g/L$	10.0		106	70-130			
ans-1,3-Dichloropropene	11.0	0.50	μg/L	10.0		110	70-130			
iethyl Ether	10.3	2.0	μg/L	10.0		103	70-130			
iisopropyl Ether (DIPE)	10.1	0.50	$\mu g/L$	10.0		101	70-130			
4-Dioxane	117	50	$\mu g/L$	100		117	40-130			
thylbenzene	9.52	1.0	$\mu g/L$	10.0		95.2	70-130			
exachlorobutadiene	9.35	0.60	$\mu g/L$	10.0		93.5	70-130			
-Hexanone (MBK)	125	10	$\mu g/L$	100		125	70-160			V-20
opropylbenzene (Cumene)	9.70	1.0	$\mu g/L$	10.0		97.0	70-130			
-Isopropyltoluene (p-Cymene)	8.80	1.0	μg/L	10.0		88.0	70-130			
Iethyl Acetate	11.1	1.0	μg/L	10.0		111	70-130			
Iethyl tert-Butyl Ether (MTBE)	10.6	1.0	μg/L	10.0		106	70-130			
lethyl Cyclohexane	9.45	1.0	μg/L	10.0		94.5	70-130			
lethylene Chloride	10.8	5.0	μg/L	10.0		108	70-130			
-Methyl-2-pentanone (MIBK)	123	10	μg/L	100		123	70-160			V-20
aphthalene	8.06	2.0	μg/L	10.0		80.6	40-130			. 20
Propylbenzene	9.44	1.0	μg/L μg/L	10.0		94.4	70-130			
tyrene	9.44 9.94	1.0	μg/L μg/L	10.0		99.4	70-130			
,1,1,2-Tetrachloroethane		1.0	μg/L μg/L	10.0		99.4 110	70-130			
1,2,2-Tetrachloroethane	11.0	0.50								
etrachloroethylene	11.5	1.0	μg/L μg/I	10.0		115	70-130			
	11.2		μg/L	10.0		112	70-130			
etrahydrofuran	10.8	10	μg/L	10.0		108	70-130			
bluene	9.81	1.0	μg/L	10.0		98.1	70-130			
2,3-Trichlorobenzene	8.48	5.0	μg/L	10.0		84.8	70-130			
2,4-Trichlorobenzene	8.56	1.0	μg/L	10.0		85.6	70-130			
3,5-Trichlorobenzene	8.66	1.0	μg/L	10.0		86.6	70-130			
1,1-Trichloroethane	10.2	1.0	$\mu g/L$	10.0		102	70-130			
1,2-Trichloroethane	11.2	1.0	$\mu g/L$	10.0		112	70-130			
richloroethylene	10.1	1.0	$\mu g/L$	10.0		101	70-130			
richlorofluoromethane (Freon 11)	10.7	2.0	$\mu g/L$	10.0		107	70-130			



QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B290082 - SW-846 5030B										
LCS (B290082-BS1)				Prepared & A	Analyzed: 09	/13/21				
1,2,3-Trichloropropane	11.4	2.0	$\mu g/L$	10.0		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	10.6	1.0	$\mu g/L$	10.0		106	70-130			
113)		1.0	/T	10.0		07.0	5 0.120			
1,2,4-Trimethylbenzene	8.70	1.0 1.0	μg/L	10.0		87.0	70-130			
1,3,5-Trimethylbenzene Vinyl Chloride	9.34	2.0	μg/L	10.0		93.4	70-130			V/ 05
m+p Xylene	7.30	2.0	μg/L μα/Ι	10.0		73.0	40-160 70-130			V-05
o-Xylene	19.2	1.0	μg/L μg/L	20.0 10.0		95.8 98.0	70-130			
	9.80	1.0								
Surrogate: 1,2-Dichloroethane-d4	23.3		μg/L	25.0		93.3	70-130			
Surrogate: Toluene-d8	24.1		μg/L	25.0		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		μg/L	25.0		103	70-130			
LCS Dup (B290082-BSD1)				Prepared & A	Analyzed: 09	/13/21				
Acetone	113	50	μg/L	100		113	70-160	2.00	25	
Acrolein	103	10	$\mu g/L$	100		103	70-130	2.06	25	
Acrylonitrile	11.4	5.0	$\mu g/L$	10.0		114	70-130	3.95	25	
tert-Amyl Methyl Ether (TAME)	10.6	0.50	$\mu g/L$	10.0		106	70-130	2.20	25	
Benzene	9.49	1.0	$\mu g/L$	10.0		94.9	70-130	1.81	25	
Bromobenzene	10.1	1.0	$\mu g/L$	10.0		101	70-130	0.0989	25	
Bromochloromethane	11.2	1.0	$\mu g/L$	10.0		112	70-130	1.26	25	
Bromodichloromethane	10.8	0.50	$\mu g/L$	10.0		108	70-130	1.38	25	
Bromoform	12.4	1.0	$\mu g/L$	10.0		124	70-130	2.95	25	V-20
Bromomethane	9.92	2.0	$\mu g/L$	10.0		99.2	40-160	0.708	25	V-34
2-Butanone (MEK)	115	20	$\mu g/L$	100		115	40-160	4.57	25	
tert-Butyl Alcohol (TBA)	107	20	$\mu g/L$	100		107	40-160	3.00	25	
n-Butylbenzene	8.11	1.0	$\mu g/L$	10.0		81.1	70-130	4.11	25	
sec-Butylbenzene	8.40	1.0	$\mu g/L$	10.0		84.0	70-130	3.51	25	
tert-Butylbenzene	8.52	1.0	$\mu g/L$	10.0		85.2	70-130	2.32	25	
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	$\mu g/L$	10.0		109	70-130	4.60	25	
Carbon Disulfide	90.8	5.0	$\mu g/L$	100		90.8	70-130	1.55	25	
Carbon Tetrachloride	10.8	5.0	$\mu g/L$	10.0		108	70-130	2.15	25	
Chlorobenzene	9.93	1.0	$\mu g/L$	10.0		99.3	70-130	0.902	25	
Chlorodibromomethane	11.8	0.50	$\mu g/L$	10.0		118	70-130	0.340	25	
Chloroethane	11.1	2.0	$\mu g/L$	10.0		111	70-130	0.541	25	
Chloroform	10.4	2.0	$\mu g/L$	10.0		104	70-130	3.63	25	
Chloromethane	8.38	2.0	$\mu g/L$	10.0		83.8	40-160	5.27	25	
2-Chlorotoluene	8.87	1.0	$\mu g/L$	10.0		88.7	70-130	1.59	25	
4-Chlorotoluene	9.75	1.0	$\mu g/L$	10.0		97.5	70-130	1.65	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.44	5.0	$\mu g/L$	10.0		94.4	70-130	10.4	25	
1,2-Dibromoethane (EDB)	11.5	0.50	$\mu g/L$	10.0		115	70-130	1.14	25	
Dibromomethane	11.5	1.0	$\mu g/L$	10.0		115	70-130	1.93	25	
1,2-Dichlorobenzene	9.40	1.0	$\mu g/L$	10.0		94.0	70-130	2.94	25	
1,3-Dichlorobenzene	9.28	1.0	$\mu g/L$	10.0		92.8	70-130	2.24	25	
1,4-Dichlorobenzene	9.40	1.0	$\mu g/L$	10.0		94.0	70-130	0.953	25	
trans-1,4-Dichloro-2-butene	12.0	2.0	$\mu g/L$	10.0		120	70-130	5.98	25	V-20
Dichlorodifluoromethane (Freon 12)	9.72	2.0	$\mu g/L$	10.0		97.2	40-160	2.92	25	
1,1-Dichloroethane	10.4	1.0	$\mu g/L$	10.0		104	70-130	1.46	25	
1,2-Dichloroethane	10.3	1.0	$\mu g/L$	10.0		103	70-130	0.973	25	
1,1-Dichloroethylene	9.99	1.0	$\mu g/L$	10.0		99.9	70-130	1.11	25	
cis-1,2-Dichloroethylene	10.3	1.0	$\mu g/L$	10.0		103	70-130	2.56	25	
trans-1,2-Dichloroethylene	9.14	1.0	$\mu g/L$	10.0		91.4	70-130	0.549	25	
1,2-Dichloropropane	10.6	1.0	$\mu g/L$	10.0		106	70-130	1.23	25	
1,3-Dichloropropane	11.1	0.50	μg/L	10.0		111	70-130	3.67	25	



QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B290082 - SW-846 5030B											
LCS Dup (B290082-BSD1)				Prepared &	Analyzed: 09	/13/21					
2,2-Dichloropropane	10.8	1.0	μg/L	10.0		108	40-130	2.73	25		†
1,1-Dichloropropene	9.78	2.0	$\mu g/L$	10.0		97.8	70-130	4.60	25		
cis-1,3-Dichloropropene	10.7	0.50	$\mu g \! / \! L$	10.0		107	70-130	1.32	25		
trans-1,3-Dichloropropene	11.0	0.50	$\mu g/L$	10.0		110	70-130	0.636	25		
Diethyl Ether	10.4	2.0	$\mu g/L$	10.0		104	70-130	1.25	25		
Diisopropyl Ether (DIPE)	10.4	0.50	$\mu g \! / \! L$	10.0		104	70-130	2.92	25		
1,4-Dioxane	100	50	$\mu g/L$	100		100	40-130	15.3	50		†
Ethylbenzene	9.61	1.0	$\mu g/L$	10.0		96.1	70-130	0.941	25		
Hexachlorobutadiene	9.01	0.60	$\mu g/L$	10.0		90.1	70-130	3.70	25		
2-Hexanone (MBK)	123	10	$\mu g/L$	100		123	70-160	1.27	25	V-20	†
Isopropylbenzene (Cumene)	9.64	1.0	$\mu g/L$	10.0		96.4	70-130	0.620	25		
p-Isopropyltoluene (p-Cymene)	8.44	1.0	$\mu g/L$	10.0		84.4	70-130	4.18	25		
Methyl Acetate	11.2	1.0	$\mu g/L$	10.0		112	70-130	0.986	25		
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	$\mu g/L$	10.0		107	70-130	0.658	25		
Methyl Cyclohexane	9.22	1.0	μg/L	10.0		92.2	70-130	2.46	25		
Methylene Chloride	10.9	5.0	μg/L	10.0		109	70-130	1.57	25		
4-Methyl-2-pentanone (MIBK)	118	10	μg/L	100		118	70-160	4.40	25	V-20	†
Naphthalene	7.38	2.0	μg/L	10.0		73.8	40-130	8.81	25		†
n-Propylbenzene	9.18	1.0	μg/L	10.0		91.8	70-130	2.79	25		
Styrene	9.75	1.0	μg/L	10.0		97.5	70-130	1.93	25		
1,1,1,2-Tetrachloroethane	11.0	1.0	μg/L	10.0		110	70-130	0.363	25		
1,1,2,2-Tetrachloroethane	11.2	0.50	μg/L	10.0		112	70-130	2.54	25		
Tetrachloroethylene	11.2	1.0	μg/L	10.0		112	70-130	0.0892	25		
Tetrahydrofuran	10.8	10	μg/L	10.0		108	70-130	0.648	25		
Toluene	9.97	1.0	μg/L	10.0		99.7	70-130	1.62	25		
1,2,3-Trichlorobenzene	7.80	5.0	μg/L	10.0		78.0	70-130	8.35	25		
1,2,4-Trichlorobenzene	8.05	1.0	μg/L	10.0		80.5	70-130	6.14	25		
1,3,5-Trichlorobenzene	8.43	1.0	μg/L	10.0		84.3	70-130	2.69	25		
1,1,1-Trichloroethane	10.3	1.0	μg/L	10.0		103	70-130	0.682	25		
1,1,2-Trichloroethane	11.2	1.0	μg/L	10.0		112	70-130	0.446	25		
Trichloroethylene	10.2	1.0	μg/L	10.0		102	70-130	0.394	25		
Trichlorofluoromethane (Freon 11)	11.0	2.0	μg/L	10.0		110	70-130	2.77	25		
1,2,3-Trichloropropane	11.3	2.0	μg/L	10.0		113	70-130	1.23	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	μg/L	10.0		108	70-130	1.21	25		
1,2,4-Trimethylbenzene	8.32	1.0	$\mu g/L$	10.0		83.2	70-130	4.47	25		
1,3,5-Trimethylbenzene	9.24	1.0	μg/L	10.0		92.4	70-130	1.08	25		
Vinyl Chloride	7.88	2.0	μg/L	10.0		78.8	40-160	7.64	25	V-05	†
m+p Xylene	19.2	2.0	μg/L	20.0		96.2	70-130	0.312	25		
o-Xylene	9.76	1.0	μg/L	10.0		97.6	70-130	0.409	25		
Surrogate: 1,2-Dichloroethane-d4	23.9		μg/L	25.0		95.6	70-130				
Surrogate: Toluene-d8	24.0		μg/L	25.0		96.0	70-130				
Surrogate: 4-Bromofluorobenzene	25.9		μg/L	25.0		104	70-130				



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.



CERTIFICATIONS

Certified Analyses included in this Report

Certifications	
CT.ME.NH.VA.NY	
ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
ME,NH,VA,NY	
ME,VA,NY	
ME,VA,NY	
ME,VA,NY	
ME,NH,VA,NY	
CT,ME,NH,VA,NY	
ME,NH,VA,NY	
ME,NH,VA,NY	
ME,NY	
ME,NY	
ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
ME,NH,VA,NY	
ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
ME,NY	
CT,ME,NH,VA,NY	
CT,ME,NH,VA,NY	
ME,VA,NY	
ME,NH,VA,NY	
ME,NH,VA,NY	
CT,ME,NH,VA,NY	
ME,NY	
ME,NH,VA,NY	
ME,NY	
CT,ME,NH,VA,NY	
	CT,ME,NH,VA,NY CT,ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY CT,ME,NH,VA,NY CT,ME,NH,VA,NY CT,ME,NH,VA,NY ME,NH,VA,NY ME,VA,NY ME,VA,NY ME,VA,NY ME,VA,NY ME,NH,VA,NY CT,ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY ME,NH,VA,NY CT,ME,NH,VA,NY ME,NH,VA,NY ME,NH,WA,NY ME,NH,WA,NY ME,NH,WA,NY ME,NH,WA,NY ME,NH,WA,NY ME,NH,WA,NY ME,NH,



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY



Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publile Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



146 J	lartford	Road,	Manchester,	СТ	0604

- □ 56 Quarry Road, Trumbull, CT 06611
- □ 1419 Richland Street, Columbia, SC 29201
- D 78 Interstate Drive, West Springfield, MA 01089
- 2317 Iron Horse Way, Suite 204, Providence, RI 02908
- 🛘 80 Washington Street, Suite 301, Poughkeepsie, NY

□ Other	
положения при	

		CI	HAIN-OF-C	USTODY	RECO	RD	,	371	61 ^c	QIF(DSD	6	İ	Hour* Hour*	□ 72-Ho Standa	Turnar ur* rd (day	ДΟ	ther (days)
***	PROJE 719 V		MB EN STREET		T LOCATION OCKET, N						HECT NU		6/			Col	1.лво 37- U	oratory S T
Report Invoici	TO:)	tado	elyn Sampson	(m Sumpson E	ondo.c	oml		nalysis equest									Cor	ntainers
Samples Source C MW=Mo SW=Surfa	's Signa odes: nitoring Water	Vell		eatment Facility S=S	Date: 9/9/ oil B=So	21 21										(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
ltem	Transfer		Sample Numbe	r Source Code		Time Sampled		300/					20th 3					Comments
1			1603210909 -	0) X	9/4/21	1490	X								3			THINBLANK
8			1603210909-	og MM	9/9/21	1443	5 X		~~~~~						3			Mw-2
													7 A 187 A 207 A 20					\$ 1
									rece 8/2021		empty.							
						ALL AND	100							7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Transfer umber	M		Inquished By	Accepted F-10 FNIO L Paul Chil		Da 4/9/	21	Time	Repor	rting and I		Duplica Limit Re	tes <u>1</u> quireme	Blank	QC 🖂 s (Item N RCP Deliv		ICP CAM	Cert.
7 3	New		Laster N	de la 1º	10	9-16	21	1140	* J	ional Con				***************************************			ANTAWARA LIFE	

Table of Contents

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____

FUSS+O'Neill

Trop blanks were not filled

Client



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

How were the sam	***			Date	9/[0]	2	Time	2055	
	ples	In Cooler	T	No Cooler		On Ice	T	No Ice	
received?	ı	Direct from Samp	lina	•		Ambient		Melted Ice	***************************************
			By Gun #	2	10	Actual Tem	0-33		
Were samples wit			-		·				
Temperature? 2-6	_		By Blank #			Actual Tem		0/4	
Was Custo			n la		1911 (0)	Tampered			
Was COC		NO. 10			s Chain Agr	ee With Sar	npies?		
		aking/loose caps	on any sam		<u> </u>				
Is COC in ink/ Legi					nples receiv	ed within ho			
Did COC include		Client	<u> </u>	Analysis	Τ		er Name		
pertinent Informati		Project		ID's	<u> </u>	Collection	Dates/Times		
Are Sample labels		out and legible?							
Are there Lab to Fil			<u> </u>			notified?			
Are there Rushes?	re.		<u> </u>			notified?			
Are there Short Ho	lds?		*F		Who was	notified?			
Is there enough Vo	lume?	?	XF			-			
Is there Headspace	e wher	re applicable?	F		MS/MSD?				
Proper Media/Cont			1			samples req	uired?	t	
	ooiyo	42	9		On COC?				
Were trip blanks re	ceive	u :						ſ.	
Were trip blanks re Do all samples hav				Acid	1/4		Base	n ce	
Do all samples hav	e the	proper pH?	*	Acid		1	Base	n ce	4
Do all samples hav	e the		*			1	16 oz	z Amb.	#
Do all samples hav Vials # Unp-	e the	proper pH? Containers:	#	1 Liter	Na 1	1	16 oz 8oz Ar	z Amb. mb/Clear	
Do all samples hav Vials # Unp-	e the	proper pH? Containers: 1 Liter Amb.	3	1 Liter 500 mL 250 mL	Plastic Plastic Plastic		16 oz 8oz Ar 4oz Ar	z Amb. mb/Clear mb/Clear	*
Vials # Unp- HCL-	e the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint	4	1 Liter 500 mL 250 mL Col./B	Plastic Plastic Plastic Acteria	*	16 oz 8oz Ar 4oz Ar 2oz Ar	z Amb. mb/Clear mb/Clear mb/Clear	į
Vials # Unp- HCL- Meoh-	e the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass	***	1 Liter 500 mL 250 mL Col./B: Other	Plastic Plastic Plastic Acteria Plastic	*	16 oz 8oz Ar 4oz Ar 2oz Ar En	z Amb. mb/Clear mb/Clear	
Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	e the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		1 Liter 500 mL 250 mL Col./Bi Other Plasti	Plastic Plastic Plastic acteria Plastic c Bag		16 oz 8oz Ar 4oz Ar 2oz Ar	z Amb. mb/Clear mb/Clear mb/Clear	
Vials # Unp- HCL- Meoh- Bisulfate- DI-	e the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass		1 Liter 500 mL 250 mL Col./Bi Other Plasti	Plastic Plastic Plastic Acteria Plastic		16 oz 8oz Ar 4oz Ar 2oz Ar En	z Amb. mb/Clear mb/Clear mb/Clear	
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Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	ve the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit	*	1 Liter 500 mL 250 mL Col./Bi Other Plasti Zipl Unused I	Plastic Plastic Plastic acteria Plastic c Bag lock Media	*	16 oz 8oz Ar 4oz Ar 2oz Ar En Frozen:	z Amb. mb/Clear mb/Clear mb/Clear mcore	
Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	ve the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate		1 Liter 500 mL 250 mL Col./Bi Other Plasti Zipl Unused I	Plastic Plastic Plastic Acteria Plastic C Bag		16 oz 8oz Ar 4oz Ar 2oz Ar En Frozen:	z Amb. mb/Clear mb/Clear mb/Clear mb/Clear	
Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	ve the	proper pH? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb.		1 Liter 500 mL 250 mL Col./B: Other Plasti Zipl Unused 1 Liter 500 mL	Plastic Plastic Plastic acteria Plastic c Bag lock Media Plastic		16 oz 8oz Ar 4oz Ar 2oz Ar En Frozen:	z Amb. mb/Clear mb/Clear mb/Clear mb/Clear ncore	
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Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Thiosulfate- DI- Thiosulfate-	ve the	Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter 500 mL 250 mL Col./B: Other Plasti Zipl Unused I 1 Liter 500 mL 250 mL Flash Other Plasti	Plastic Plastic Plastic Acteria Plastic Bag Ock Media Plastic Plastic Plastic Glass Glass Glass		16 oz 8oz Ar 4oz Ar 2oz Ar En Frozen: 16 oz 8oz Ar 4oz Ar 2oz Ar	z Amb. mb/Clear mb/Clear mb/Clear core z Amb. mb/Clear mb/Clear mb/Clear	
Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials # Unp- HCL- Meoh- Bisulfate- DI- DI- Thiosulfate- DI- Thiosulfate- DI- Thiosulfate- DI- Thiosulfate- DI-	ve the	Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		1 Liter 500 mL 250 mL Col./B: Other Plasti Zipl Unused I 1 Liter 500 mL 250 mL Flash Other Plasti	Plastic Plastic Plastic acteria Plastic c Bag lock Media Plastic Plastic Plastic Plastic Glass		16 oz 8oz Ar 4oz Ar 2oz Ar En Frozen: 16 oz 8oz Ar 4oz Ar 2oz Ar	z Amb. mb/Clear mb/Clear mb/Clear core z Amb. mb/Clear mb/Clear mb/Clear	



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS

			<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
1.		SDG Project Narratives		X	
2.		Traffic Report		X	
2. 3.		Volatiles Data			
	a.	Sample Data			
		Target Compound List (TCL) Results	X		
		Reconstructed total ion chromatograms (RIC) for each sam For each sample:	ple 🛚		
		Raw spectra and background-subtracted mass spectra of			
		target compounds identified	X		
		Mass spectra of all reported TICs with three best library			
		matches		X	Na
		Percent solids calculations	X		
	b.	Standards Data (all instruments)			
		Initial Calibration Data	X		
		RICs and Quan Reports for all Standards	x		
		Continuing Calibration	X		
		RICs and Quan Reports for all Standards	×		
		Internal Standard Area Summary	×		
	c.	Raw QC Data			
		Blank Data	X	П	
		Matrix Spike Data		X	Na
		Matrix Spike Duplicate Data		X	Na
1.		Semivolatiles Data			
	a.	QC Summary			
		Surrogate Percent Recovery Summary	X		
		MS/MSD Summary		X	Na
		Method Blank Summary			
		Tuning and Mass Calibration	X		



5.

INITIAL DATE: OCTOBER 2011 REVISION DATE: FEBRUARY 2012 REVISION: 1.0

VEC NO COMMENITE

GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS (Continued)

		<u>IES</u>	NO	COMMENTS
b.	Sample Data			
	TCL Results	X		
	Tentatively Identified Compounds		×	Na
	Reconstructed total ion chromatograms (RIC) for each			
	Sample	X		
	For each sample:			
	Raw spectra and background-subtracted mass			
	spectra of TCL compounds	X		Na
	Mass spectra of TICs with 3 best library matches \Box	\mathbf{x}	Na	
	GPC chromatograms (if GPC performed)		X	Na
	0 1 1 D (11:			
c.	Standards Data (all instruments)	v-		
	Initial Calibration Data	X X		
	RICs and Quan Reports for all Standards	_		
	Continuing Calibration	X		
	RICs and Quan Reports for all Standards	X		-
	Internal Standard Areas Summary	X		
	Internal Standard Areas Summary	X		
d.	Raw QC Data			
CI.	Decafluorotripbenylphosphine (DFTPP)			
	Blank Data	x		
	Matrix Spike Data		X	Na
	Matrix Spike Duplicate Data		X	Na
	That opine Bupiente Buil			
	Miscellaneous Data			
	Original preparation and analysis forms or copies of preparation	tion		
	and analysis log book pages	X		
	Internal sample & sample extract transfer chain-of custody			
	records		X	
	Screening Records		X	Na
	All instrument output, including strip charts from screening	X		
	activities (describe or list) quant reports / Chromatograms			
				_



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST ORGANIC COMPOUNDS (Continued)

			YES	NU	COMMI	<u>2N15</u>
	-of-Custody Records		X			
	e Log-in Sheet (Lab & DC1) llaneous Shipping/Receiving Records	(describe or list)	<u>x</u>		Na	
7.	Internal Lab Sample Transfer Recor Sheets (describe or list)	rds and Tracking	X			
8.	Other Records (describe or list)			x	Na	
9.	Comments:					
**	See laboratory Quality Assurance Plan	n for limits.				
ompleted by:	Fra	n DeRose / Laborat	tory Ma	ınager		8/18/202
Lab)		inted Name/Title))			Date
ssociated with	e above information is true and accurate the above analyses will be made availab this document.					
Certified by: Lab)	(Signature) (Pr	inted Name/Title))			Date



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST INORGANIC COMPOUNDS

	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
SDG Project Narratives		X	
Inorganic Analysis Data Sheet	X		
Initial and Continuing Calibration Verification	\mathbf{x}		
CRDL Standard for AA and ICP	X		Pb
Blanks	X		
ICP Interference Check Sample	X		
Spike Sample Recovery	X		
Post Digest Spike Sample Recovery	\mathbf{x}		
Duplicates	X		
Laboratory Control Sample	X		
Standard Addition Results		X_	
ICP Serial Dilutions	\mathbf{x}		
Instrument Detection Limits, Quarterly		X	Annually
ICP Interelement Correction Factors, Annually	\mathbf{x}		Semi-Annually
ICP Linear Ranges Quarterly		×	Semi-Annually
Preparation Log	Χ		
Analysis Run Log	\mathbf{x}		
ICP Raw Data	X		
Furnace AA Raw Data			Na
Mercury Raw Data			Na
Percent Solids Calculations	X		
Digestion Logs	X		
EPA Shipping/Receiving Records			
(List all individual records)	X		
Chain-of Custody Records	X		
Sample Log-In sheet	X		
Miscellaneous Shipping/Receiving Records			Na
(List all individual records)			



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND LABORATORY MODIFIED TIER II DATA VALIDATION CHECKLIST INORGANIC COMPOUNDS (Continued)

PERFORMED AND, WHERE APPLICABLE, WITHIN ACCEPTABLE LIMTS?**

YES NO COMMENTS

25.		l Lab Sample Transfer be or List)	Records and Tracking Sheets			
26.		l Original Sample Prep	_			
	`	be or List		χ	_	
	_	tion Records		Χ	_	
	•	s Records		x	<u> </u>	
27.	Descrip Other I	Records (Describe or I	ist)	X		
28.	Commo			_		
**	See lab	oratory Quality Assura	nce Plan for limits.			
Comr	oleted by:		Fran DeRose / Labora	ntory Ma	anager	08/18/2021
(Lab)		(Signature)	(Printed Name/Tit	le)		Date
associ	ated with		true and accurate. I further ce l be made available for review	-		•
	ied by:	(S:- material)	Oning 1NT /TEX	1-1		Data
(Lab)		(Signature)	(Printed Name/Tit	ic)		Date



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND MODIFIED TIER I COMPLETENESS CHECKLIST

	YES	<u>N(</u>	<u>)</u>
1. SAMPLING AND FIELD MEASUREMENTS:			
Field measurement calibration records	X		
Groundwater field measurements (if applicable)	\mathbf{X}		
Soil sampling field measurements (if applicable)			N/A
Sediment sampling field measurements (if applicable)			N/A
Surface water sampling field measurements (if applicable)			N/A
Low-flow sampling field measurements (if applicable)	$\overline{\mathbf{X}}$		
Documentation of field activities	$\overline{\mathbf{X}}$		
Sample numbering and labeling	\mathbf{X}		
Chain-of-Custody records	\mathbf{X}		
Trip blanks	\mathbf{X}		
Duplicate samples	X		
Equipment blanks			N/A
Split samples (if any)			N/A
2. LABORATORY MEASUREMENTS:			
Trip blanks	$\overline{\mathbf{X}}$		
Instrument blanks			N/A
Laboratory control samples	\mathbf{X}		
Duplicates samples	$\overline{\mathbf{X}}$		
Equipment blanks			N/A
Matrix spike/matrix spike duplicates	$\overline{\mathbf{X}}$		
Analysis type	X		
Chain-of-Custody records	$\overline{\mathbf{X}}$		
Surrogate recoveries	\mathbf{X}		
Sample Project Narratives	$\overline{\mathbf{X}}$		
Split samples (if any)			N/A
TOTAL: <u>16</u>			-
PERCENT COMPL	ETE:	100	%



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST

1. SAMPLING AND FIELD MEASUREMENTS:	YES	<u>NO</u>	<u>COMMENTS</u>
Field measurement calibration records			
pH - \pm 0.3 pH units	X		
S.C. \pm 5% of calibration solution, within?			
calibration range	X		
Temperature - ± 0.5 °C	X		
D.O \pm 5% of calibration solution	$\overline{\mathbf{X}}$		
Groundwater field measurements (if applicable)	2-16	_	
Water depth measured to within 0.01 ft.?	X		
Soil sampling field measurements (if applicable)			
OVM - ± 2 ppm			N/A
$OVA - \pm 2 ppm$			
Sediment sampling field measurements (if applicable)			
Descriptive information recorded?			N/A
Surface water sampling field measurements (if applicable)			
Water depth measured to within 0.01 ft.?			N /A
Low-flow sampling field measurements (if applicable)			
S.C. $-\pm 10\%$	X		
pH - \pm 0.2 pH units	$\overline{\mathbf{X}}$		
Temperature - ± 10%	X		
Turbidity - ±5 NTU	X		
Documentation of field activities			
Site-specific information documented in field notebook?	X		
Field data sheets completed?	X		
Sample numbering and labeling			
Sample numbering conforms to sample I.D. system			
identified in QAPP?	X		
Chain-of-Custody records			
Chain-of-Custody forms completed?	\mathbf{X}		



GENERIC QUALITY ASSURANCE PROJECT PLAN FOR PROJECTS IN CONNECTICUT, MASSACHUSETTS AND RHODE ISLAND FUSS & O'NEILL MODIFIED TIER II DATA VALIDATION CHECKLIST (Continued)

Trip blanks submitted, one per day? Any compounds detected in trip blanks? Duplicate samples Field duplicates performed, 1/20 samples? Duplicates performed on 10% of samples screened for explosives? Is percent difference within 30% for all field parameters? Equipment blanks Equipment blanks submitted, one per sampling day? Any compounds detected in equipment blank? Split samples (if any) Split samples collected? Is percent difference within 30% for split samples? N/A LABORATORY MEASUREMENTS: Trip blanks Trip blanks submitted, one per day? Any compounds detected in trip blanks? X		<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Any compounds detected in trip blanks?	Trip blanks			
Duplicate samples Field duplicates performed, 1/20 samples? Duplicates performed on 10% of samples screened for explosives? Is percent difference within 30% for all field parameters? Equipment blanks Equipment blanks submitted, one per sampling day? Any compounds detected in equipment blank? Split samples (if any) Split samples collected? Is percent difference within 30% for split samples? N/A LABORATORY MEASUREMENTS: Trip blanks Trip blanks submitted, one per day? Any compounds detected in trip blanks? Instrument blanks** Duplicates samples** Duplicates samples** Equipment blanks** M/A Matrix spike/matrix spike duplicates** Analysis type Chain-of-Custody records Surrogate recoveries** Sample Project Narratives Split samples (if any)** N/A	Trip blanks submitted, one per day?	$\overline{\mathbf{X}}$		
Field duplicates performed, 1/20 samples? Duplicates performed on 10% of samples screened for explosives? Is percent difference within 30% for all field parameters? Equipment blanks Equipment blanks submitted, one per sampling day? Any compounds detected in equipment blank? Split samples (if any) Split samples collected? Is percent difference within 30% for split samples? N/A LABORATORY MEASUREMENTS: Trip blanks Trip blanks Trip blanks submitted, one per day? Any compounds detected in trip blanks? Instrument blanks** Duplicates samples** Equipment blanks** Duplicates samples** Equipment blanks** Analysis type Chain-of-Custody records Surrogate recoveries** Sample Project Narratives Split samples (if any)** N/A	Any compounds detected in trip blanks?		\mathbf{X}	
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for explosives? Is percent difference within 30% for all field parameters? Equipment blanks Equipment blanks submitted, one per sampling day? Any compounds detected in equipment blank? Split samples (if any) Split samples collected? Is percent difference within 30% for split samples? N/A 1s percent difference within 30% for split samples? LABORATORY MEASUREMENTS: Trip blanks Trip blanks Trip blanks submitted, one per day? Any compounds detected in trip blanks? Instrument blanks** Duplicates samples** Equipment blanks** Laboratory control samples** Equipment blanks** Analysis type Chain-of-Custody records Surrogate recoveries** Sample Project Narratives Split samples (if any)** N/A	Field duplicates performed, 1/20 samples?	X		
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Appendix F

Hazardous Material Release Notification Form

Office of Land Revitalization & Sustainable Materials Management Site Remediation Section

HAZARDOUS MATERIAL RELEASE NOTIFICATION FORM

THIS FORM IS NOT TO BE USED TO REPORT AN IMMINENT HAZARD

1.	Notifier Information:
	Name: Kevin Proft, City of Woonsocket
	Address: 169 Main Street, Woonsocket, Rhode Island 02895
	Phone: 401-762-6400
	Email: kproft@woonsocketri.org
	Status: Environmental Professional Owner Operator Environmental Professional Secured Creditor X Voluntary
	If Environmental Professional is selected, please supply the follow information for your client below:
	Name:
	Address:
	Phone:
	Email:
	Status: Owner Secured Creditor Operator Voluntary
2.	Property Information:
	Name of Site: 719 River Street
	Site Address: 719 River Street, Woonsocket, Rhode Island, 02895
	Plat/Lot Numbers: Plat 8, Lots 5, 35, 37, and 58
	Approximate Acreage of Property: 5.021-acres
	Latitude/Longitude: 42° 00' 23.57" N, 71° 31' 33.55" W
	Site Land Usage Type: Residential Industrial/Commercial
	Location of Release (Attach site sketch as necessary): Urban fill was documented throughout the Site at depths of up to 10 feet below grade. Additionally soil and groundwater containing petroleum was identified in the central portion of the Site. Refer to Figure 2 of the Site Investigation Report.
3.	Release Information:
	Date of Discovery: June 2021
	Source: Urban fill throughout the Site at depths of up to 10 feet below grade. Petroleum identified within the vicinity of two USTs located north of the mill building.

	Release Megla: Soli and Groundwater				
	Hazardous Materials and Concentrations (Attach certificates of analysis as necessary): PAH, petroleum, arsenic and lead in soil. NAPL observed in monitoring well MW-8, located north of the mill building Refer to the laboratory analytical reports included in the SIR.				
	Extent of Contamination: Site-wide urban fill. Petroleum in soil and groundwater located north of the mill building.				
	Approximate acreage of Contaminated Area: 5.021-acres				
4.	Resource Information:				
	Site Land Usage: Industrial/Commercial Residential				
	Adjacent Land Usage: Industrial/Commercial Residential				
	Site Groundwater Class: GA/GAA GB				
	Adjacent Groundwater Class: GA/GAA (if different than site groundwater classification within 500 feet)				
	Nearest Surface Water or Wetland: Less Than 500 Feet Greater Than 500 Feet				
	Potential for adverse impact?				
5.	Potentially Responsible Parties:				
	Name: Dorado Properties, LLC C/O Robert Picciotti Jr.				
	Address: 130 Woodward Avenue, Narragansett, RI 02882				
	Status: Owner Operator Other: Operator and previous Owner				
	Name:				
	Address:				
	Status: Owner Operator Other:				
6.	Measures taken or proposed to be taken in response to Release: A Site Investigation Report has been completed in accordance with Section 1.8 of the RIDEM Remediation Regulations.				
	Check all that apply: Site Investigation Short-Term/Emergency EXPRESS Policy Dig & Haul Policy				
7.	Other significant remarks about Release (Will a background determination be made?) See Site Investigation Report				
	Signature:				
	Title: City Planner				



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