



AECOM
10 Orms Street
Suite 400
Providence, RI 02904
aecom.com

To:
Joseph Martella

CC:
Gregory Simpson

Project name:
Textron Groundwater Extraction and Treatment
System – Sewer Connection

333 Adelaide Avenue
Providence, Rhode Island

Project ref:
60646242

From:
Rory Henderson
Bryan MacDonald
Patrick Haskell

Date:
May 1, 2021

Alteration of ELUR Area Closure Report

Introduction

AECOM, on behalf of Textron, has prepared this closure report summarizing the activities completed to install a new underground drain line for the discharge of treated groundwater to the Narragansett Bay Commission sewer system at the Former Gorham Silver Facility (the Site), located at 333 Adelaide Ave in Providence, Rhode Island. The groundwater treatment system formerly discharged to a detention basin adjacent to Mashpaug Cove under a Rhode Island Pollutant Discharge Elimination System (RIPDES) Remediation General Permit RIG85E004. The work was conducted at the request of the Rhode Island Department of Environmental Management (RIDEM) Office of Water Resources. Prior to construction, Narragansett Bay Commission Pretreatment and Sewer Connection permits were obtained, including NBC Wastewater Discharge Permit #P4012-079-0825, Indirect Temporary Sewer Connection Permit SC200222, and Stormwater Management Plan SC200223. The installation of the discharge piping involved disturbances to the existing engineered cap, including saw-cutting and removing asphalt, excavating soil, installing pipe, backfilling, disposal of excess soil, and repaving the asphalt surface.

Summary of Work Activities

The trench for the new drain line closely followed the existing corridor used by the groundwater extraction and treatment system (GWTS) for conveying untreated groundwater from three extraction wells to the treatment shed, as shown on the attached figure included as **Attachment A**. The summary of completed work activities is as follows:

- On November 12, 2020, AECOM, on behalf of Textron, mailed a public notice to the surrounding abutters on Adelaide and Reservoir Avenue via certified mail. This public notice informed the surrounding abutters prior to the construction work. Certified mail receipts are included as **Attachment B**.
- Before work commenced, Strategic Environmental Services, Inc. (Strategic) performed a DigSafe notification for the mark-out of underground utility lines.
- On November 30, 2020 and December 1, 2020, GPRS performed a utility survey using ground penetrating radar to locate underground utilities. All underground utilities were marked with paint to show their orientation and depth.
- On December 2, 2020 Strategic sawcut the asphalt pavement in preparation for the installation of the new drain line.
- On December 2, 2020 Strategic began to remove the asphalt and soil from behind the building in 20 to 40 foot sections using an excavator. Asphalt was segregated into a stockpile and later sent off-site for recycling.
- During the duration of construction activities, excavated soil was removed with a front-end loader and screened with a photoionization detector (PID). After physically observing and screening for signs of contamination, including screening

for volatile organic compounds (VOCs) with a PID, clean soil was re-used as backfill material for the trench. Impacted material was segregated and placed in 30-yard roll-off containers in the parking lot area.

- On December 8, 2020 Strategic began to install the 4-inch effluent drainage line. New bedding material was placed to the depth profile shown on the Construction Drawings. A 6-inch layer of bedding material (pea stone) was placed under the PVC piping and then covered with an additional 6 inches of pea stone. A layer of filter fabric covered the pea stone and then native soil was placed to approximately 4 inches below grade.
- After laying the first section of drainage pipe, Strategic also installed a 4-inch P-trap and a 2-inch sewer vent line.
- On December 12, 2020 Strategic encountered hardpan material approximately 6 feet below ground surface (bgs) along the western side of the building. A hammer attachment was brought on-site and used to break through the hardpan material.
- On December 13, 2020 Strategic encountered a 6-inch water line along the western side of the building. This water line sat on top of the hardpan material and could not be broken through with hand tools. The discharge line was moved over to avoid conflict and redirected to go underneath the existing influent lines.
- On January 22, 2020 a licensed plumber cored a 7-inch hole into the sewer manhole. The plumber then installed a 4-inch clean out valve with a 6-inch flapper valve riser. A pressure test of the effluent discharge piping was performed using Muni-Ball pipe plugs. The test was conducted at 4 pounds per square inch for 4 minutes and passed.
- On January 25, 2021 after all the necessary connections were made to the sanitary sewer, the effluent discharge began.
- On March 5 and March 6, 2021 Strategic completed restoration of the backfilled trench surface using hot asphalt pavement. A total thickness of 4 inches of asphalt was installed and graded to match the parking lot.

A photograph log documenting site activities and restoration is included as **Attachment C**.

Soil Management Plan

Work on the effluent discharge line was conducted in accordance with the Soil Management Plan (SMP) associated with the Environmental Land Use Restriction (ELUR) for the Site. Plans for following specific SMP requirements are detailed in the following sections.

Erosion Control

During the installation of the effluent drain line no soil stockpiles were utilized. All excavated soil was either loaded into lined 30-yard roll-off containers or reused as backfill material the same day it was excavated. Nearby catch basins were outfitted with filter bags to catch potential sediment runoff during trenching activities.

Air Monitoring and Dust Control

Downwind perimeter and breathing-zone air monitoring was performed using two DustTrak II Aerosol monitors and a MiniRAE 3000 photoionization detector (PID). No dust concentrations at the perimeter of the Site or in the breathing zone measured the action level of 1 mg/m³ for 15 minutes or longer and no visible evidence of dust generation was observed. During site operations, no VOCs were detected with the PID at the site perimeter or in the breathing zone.

Site Security

During the course of the site work steel road plates were utilized to cover open trenches. The laydown area was also surrounded by temporary fencing and locked at night. Roll off containers with soil were also within the fenced laydown area.

Soil Management

Excess soil which could not be placed back into the excavation due to the displacement of the pipe was disposed of off-site at Environmental Soil Management Inc. (ESMI) of New Hampshire. Waste characterization sampling was performed according to the required acceptance criteria of the disposal facility and composited from roll-off containers.

In addition, excavated soils that registered a PID headspace reading of greater than 10 ppmv were segregated and taken off-site for disposal at ESMI. These soils were stored in separate roll-off containers from which a composite sample was collected for the disposal facility. The VOCs detected in this material included low levels of chlorinated VOCs and higher levels of BTEX compounds, cholobenzenes, butylbenzenes, naphthalene, and trimethylbenzenes. In general, impacts were associated with a very high density, hardpan material that was also deemed unsuitable to be used as backfill in the trench.

All reusable soils were returned to the excavation the same day they were removed. Analytical results for soil disposal waste characterization sampling is attached in **Appendix D**. Bills of lading are attached in **Appendix E**. Ultimately, nearly 400 tons of material was shipped offsite by Textron's disposal subcontractor (Clean Harbors Environmental Services [CHES]).

Restoration

Following installation of the drain line, the existing engineered cap was reconstructed by backfilling and compacting 8 inches of clean road base materials. Clean fill analytical data for road base materials and a certification letter for pea stone pipe bedding materials are attached in **Appendix F**. A new coat of hot mix asphalt pavement consisting of a 2-inch thick (minimum) binder course followed by a 2-inch thick (minimum) topcoat was installed in March 2021 once weather conditions allowed asphalt to be placed. The paving reconstituted the engineered cap in the work area.

Attachments

Attachment A – Construction Drawing

Attachment B – Certified Letter Receipts

Attachment C – Photograph Log

Attachment D – Waste Characterization Sampling Analytical Results

Attachment E – Bills of Lading for Soil Disposal

Attachment F – Pipe Bedding Clean Material Certification and Backfill Material Analytical Results

Attachment A: Construction Drawing

File: C:\Users\larryk\OneDrive - AECOM\Desktop\Working\Jobs\Providence\Providence_04-08-21.dwg Layout: Plan View (REVISED) User: BarryK PlotDate: Apr 20, 2021 - 10:13am Ref's:



- NOTES:
1. HORIZONTAL CONTROL DATUM IS PROJECTED IN RHODE ISLAND STATE PLANE NORTH AMERICAN DATUM OF 1983 (NAD 83).
 2. ELEVATIONS CONTOURS ARE PROJECTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 3. TOP DECK OF LANDFILL MAY CHANGE BASED ON VOLUME OF CONSOLIDATION. TOP DECK SHALL HAVE A MINIMUM SLOPE OF 5%. CONTOUR SHOWN ARE FOR MAXIMUM CONSOLIDATION VOLUME.
 4. CONTRACTOR TO BLEND PROPOSED GROUND SURFACE BOUNDARIES TO MEET EXISTING GROUND SURFACE. MAXIMUM SLOPE SHALL NOT EXCEED 3H:1V UNLESS INDICATED BY DRAWINGS OR APPROVED BY ENGINEER.

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AECOM
 250 Apollo Drive
 Chelmsford, MA 01824
 www.aecom.com

TEXTRON, INC.
 333 ADELAIDE AVENUE
 PROVIDENCE, RHODE ISLAND

PROJ. NO.: 60646242
 DATE: 04/08/21

PLAN VIEW
 INSTALLED TRENCH AND
 SEWER LINE LOCATION

DRAWING NUMBER:	1
SHEET NUMBER:	1 OF 1
REVISION:	0

Attachment B: Certified Letter Receipts

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674-1105-1
November 12

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NOV 12 2020
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Attachment C: Photograph Log

Attachment C: Photograph Log



Picture 1: Strategic beginning to saw cut the asphalt.



Picture 2: Strategic beginning to excavate trench in front of the remediation trailer.



Picture 3: 5" hole in remediation trailer for the new effluent discharge line.



Picture 4: New effluent discharge line connection underneath the concrete slab.

Attachment C: Photograph Log



Picture 5: Strategic using peastone to backfill around the discharge pipe in front of the remediation trailer.



Picture 6: Trench in front of remediation trailer backfilled and compacted to grade with clean backfill material.



Picture 7: Installation of discharge piping along the western side of the building.



Picture 8: Discharge piping backfilled with native soil to within 12 inches of the surface, geotextile fabric for demarcation, and clean backfill material to grade.

Attachment C: Photograph Log



Picture 9: View of trench line west of the building.



Picture 10: View of trench line south of the building.



Picture 11: Strategic hammering hardpan material in trench near the front of the building.



Picture 12: Strategic installing a section of piping near the handicap parking spots.

Attachment C: Photograph Log



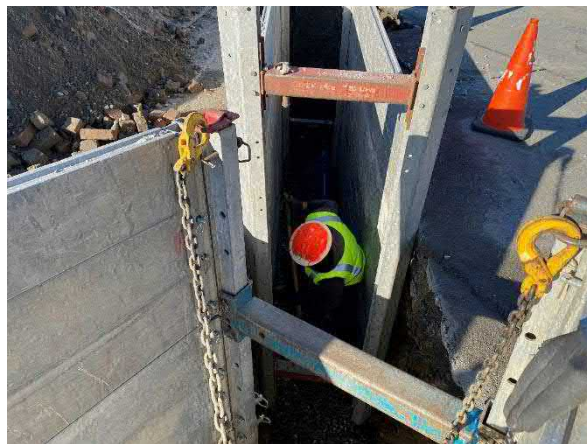
Picture 13: Section of pipe backfilled with pea gravel in trench past the handicap spots.



Picture 14: Strategic hammering hardpan material from trench before dogleg to storm drain.



Picture 15: Strategic backfilling and compacting trench with DGA material.



Picture 16: Strategic backfilling pea gravel around piping at dogleg.

Attachment C: Photograph Log



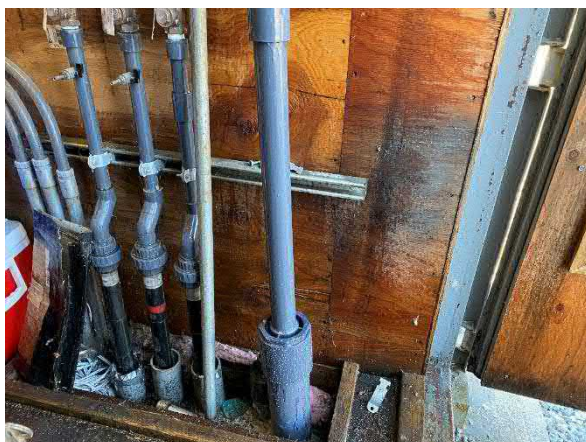
Picture 17: Strategic prepping bottom of trench with pea gravel.



Picture 18: Final connection of the effluent discharge piping to the sewer manhole.



Picture 19: Picture of the pressure testing of the effluent discharge piping at 4 psi.



Picture 20: Final piping connection made to the remediation trailer.

Attachment C: Photograph Log



Picture 21: Strategic beginning to pave the southern portion of the trench line.



Picture 22: Strategic paving trench line near the remediation trailer behind the building.



Picture 23: View showing the discharge piping trench completely paved.



Picture 24: View showing the discharge piping trench completely paved.

Attachment D: Waste Characterization Analytical Data



ANALYTICAL REPORT

Lab Number:	L2056793
Client:	AECOM 250 Apollo Dr. Chelmsford, MA 01824
ATTN:	Rory Henderson
Phone:	(978) 905-2277
Project Name:	TEXTRON
Project Number:	60646242
Report Date:	12/29/20

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

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



Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2056793-01	SOIL DISPOSAL	SOIL	PROVIDENCE, RI	12/18/20 12:00	12/18/20

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Case Narrative

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

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

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

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

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

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

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Case Narrative (continued)

Report Submission

December 29, 2020: This final report includes the results of all requested analyses.

December 23, 2020: This is a preliminary report.

Sample Receipt

The analyses performed were specified by the client.

Volatile Organics

L2056793-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of target compounds in the sample.

The WG1448547-4 LCSD recovery, associated with L2056793-01, is above the individual acceptance criteria for acrolein (131%), but within the overall method allowances. The results of the associated samples are reported.

Semivolatile Organics

L2056793-01: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

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

Authorized Signature:

Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 12/29/20

ORGANICS

VOLATILES

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/22/20 12:08
 Analyst: KJD
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	180	--	1
1,1-Dichloroethane	ND		ug/kg	37	--	1
Chloroform	ND		ug/kg	55	--	1
Carbon tetrachloride	ND		ug/kg	37	--	1
1,2-Dichloropropane	ND		ug/kg	37	--	1
Dibromochloromethane	ND		ug/kg	37	--	1
1,1,2-Trichloroethane	ND		ug/kg	37	--	1
Tetrachloroethene	120		ug/kg	18	--	1
Chlorobenzene	ND		ug/kg	18	--	1
Trichlorofluoromethane	ND		ug/kg	150	--	1
1,2-Dichloroethane	ND		ug/kg	37	--	1
1,1,1-Trichloroethane	ND		ug/kg	18	--	1
Bromodichloromethane	ND		ug/kg	18	--	1
trans-1,3-Dichloropropene	ND		ug/kg	37	--	1
cis-1,3-Dichloropropene	ND		ug/kg	18	--	1
1,3-Dichloropropene, Total	ND		ug/kg	18	--	1
1,1-Dichloropropene	ND		ug/kg	18	--	1
Bromoform	ND		ug/kg	150	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	18	--	1
Benzene	ND		ug/kg	18	--	1
Toluene	ND		ug/kg	37	--	1
Ethylbenzene	ND		ug/kg	37	--	1
Chloromethane	ND		ug/kg	150	--	1
Bromomethane	ND		ug/kg	74	--	1
Vinyl chloride	ND		ug/kg	37	--	1
Chloroethane	ND		ug/kg	74	--	1
1,1-Dichloroethene	ND		ug/kg	37	--	1
trans-1,2-Dichloroethene	ND		ug/kg	55	--	1

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	600		ug/kg	18	--	1
1,2-Dichlorobenzene	ND		ug/kg	74	--	1
1,3-Dichlorobenzene	ND		ug/kg	74	--	1
1,4-Dichlorobenzene	ND		ug/kg	74	--	1
Methyl tert butyl ether	ND		ug/kg	74	--	1
p/m-Xylene	ND		ug/kg	74	--	1
o-Xylene	ND		ug/kg	37	--	1
Xylenes, Total	ND		ug/kg	37	--	1
cis-1,2-Dichloroethene	ND		ug/kg	37	--	1
1,2-Dichloroethene, Total	ND		ug/kg	37	--	1
Dibromomethane	ND		ug/kg	74	--	1
1,4-Dichlorobutane	ND		ug/kg	370	--	1
1,2,3-Trichloropropane	ND		ug/kg	74	--	1
Styrene	ND		ug/kg	37	--	1
Dichlorodifluoromethane	ND		ug/kg	370	--	1
Acetone	ND		ug/kg	370	--	1
Carbon disulfide	ND		ug/kg	370	--	1
2-Butanone	ND		ug/kg	370	--	1
Vinyl acetate	ND		ug/kg	370	--	1
4-Methyl-2-pentanone	ND		ug/kg	370	--	1
2-Hexanone	ND		ug/kg	370	--	1
Ethyl methacrylate	ND		ug/kg	370	--	1
Acrylonitrile	ND		ug/kg	150	--	1
Bromochloromethane	ND		ug/kg	74	--	1
Tetrahydrofuran	ND		ug/kg	150	--	1
2,2-Dichloropropane	ND		ug/kg	74	--	1
1,2-Dibromoethane	ND		ug/kg	37	--	1
1,3-Dichloropropane	ND		ug/kg	74	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	18	--	1
Bromobenzene	ND		ug/kg	74	--	1
n-Butylbenzene	ND		ug/kg	37	--	1
sec-Butylbenzene	ND		ug/kg	37	--	1
tert-Butylbenzene	ND		ug/kg	74	--	1
o-Chlorotoluene	ND		ug/kg	74	--	1
p-Chlorotoluene	ND		ug/kg	74	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	110	--	1
Hexachlorobutadiene	ND		ug/kg	150	--	1

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Isopropylbenzene	ND		ug/kg	37	--	1
p-Isopropyltoluene	ND		ug/kg	37	--	1
Naphthalene	ND		ug/kg	150	--	1
n-Propylbenzene	ND		ug/kg	37	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	74	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	74	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	74	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	74	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	180	--	1
Ethyl ether	ND		ug/kg	74	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	81		70-130

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/20 10:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1448547-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/20 10:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1448547-5					
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,4-Dichlorobutane	ND		ug/kg	500	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
2-Butanone	ND		ug/kg	500	--
Vinyl acetate	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Ethyl methacrylate	ND		ug/kg	500	--
Acrolein	ND		ug/kg	1200	--
Acrylonitrile	ND		ug/kg	200	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/20 10:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1448547-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
1,3,5-Trichlorobenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--
Ethyl ether	ND		ug/kg	100	--
Methyl Acetate	ND		ug/kg	200	--
Ethyl Acetate	ND		ug/kg	500	--
Isopropyl Ether	ND		ug/kg	100	--
Cyclohexane	ND		ug/kg	500	--
Tert-Butyl Alcohol	ND		ug/kg	1000	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--
Methyl cyclohexane	ND		ug/kg	200	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 12/22/20 10:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1448547-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	82		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1448547-3 WG1448547-4								
Methylene chloride	86		87		70-130	1		30
1,1-Dichloroethane	99		99		70-130	0		30
Chloroform	85		86		70-130	1		30
Carbon tetrachloride	77		77		70-130	0		30
1,2-Dichloropropane	105		106		70-130	1		30
Dibromochloromethane	93		94		70-130	1		30
1,1,2-Trichloroethane	97		98		70-130	1		30
2-Chloroethylvinyl ether	92		99		70-130	7		30
Tetrachloroethene	102		99		70-130	3		30
Chlorobenzene	98		97		70-130	1		30
Trichlorofluoromethane	81		78		70-139	4		30
1,2-Dichloroethane	84		84		70-130	0		30
1,1,1-Trichloroethane	81		80		70-130	1		30
Bromodichloromethane	85		86		70-130	1		30
trans-1,3-Dichloropropene	94		94		70-130	0		30
cis-1,3-Dichloropropene	94		95		70-130	1		30
1,1-Dichloropropene	91		90		70-130	1		30
Bromoform	95		98		70-130	3		30
1,1,1,2-Tetrachloroethane	97		98		70-130	1		30
Benzene	95		95		70-130	0		30
Toluene	100		97		70-130	3		30
Ethylbenzene	95		94		70-130	1		30
Chloromethane	110		112		52-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1448547-3 WG1448547-4								
Bromomethane	98		98		57-147	0		30
Vinyl chloride	118		115		67-130	3		30
Chloroethane	98		98		50-151	0		30
1,1-Dichloroethene	94		94		65-135	0		30
trans-1,2-Dichloroethene	93		93		70-130	0		30
Trichloroethene	91		90		70-130	1		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	98		99		70-130	1		30
1,4-Dichlorobenzene	98		98		70-130	0		30
Methyl tert butyl ether	86		89		66-130	3		30
p/m-Xylene	98		97		70-130	1		30
o-Xylene	96		96		70-130	0		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	84		86		70-130	2		30
1,4-Dichlorobutane	106		108		70-130	2		30
1,2,3-Trichloropropane	91		94		68-130	3		30
Styrene	96		96		70-130	0		30
Dichlorodifluoromethane	86		85		30-146	1		30
Acetone	83		78		54-140	6		30
Carbon disulfide	91		90		59-130	1		30
2-Butanone	81		86		70-130	6		30
Vinyl acetate	90		93		70-130	3		30
4-Methyl-2-pentanone	106		106		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1448547-3 WG1448547-4								
2-Hexanone	89		88		70-130	1		30
Ethyl methacrylate	94		96		70-130	2		30
Acrolein	128		131	Q	70-130	2		30
Acrylonitrile	108		115		70-130	6		30
Bromochloromethane	88		92		70-130	4		30
Tetrahydrofuran	88		88		66-130	0		30
2,2-Dichloropropane	84		83		70-130	1		30
1,2-Dibromoethane	95		95		70-130	0		30
1,3-Dichloropropane	97		97		69-130	0		30
1,1,1,2-Tetrachloroethane	96		94		70-130	2		30
Bromobenzene	97		97		70-130	0		30
n-Butylbenzene	94		93		70-130	1		30
sec-Butylbenzene	94		93		70-130	1		30
tert-Butylbenzene	94		93		70-130	1		30
1,3,5-Trichlorobenzene	105		108		70-139	3		30
o-Chlorotoluene	93		94		70-130	1		30
p-Chlorotoluene	95		94		70-130	1		30
1,2-Dibromo-3-chloropropane	92		98		68-130	6		30
Hexachlorobutadiene	102		102		67-130	0		30
Isopropylbenzene	96		94		70-130	2		30
p-Isopropyltoluene	95		93		70-130	2		30
Naphthalene	96		98		70-130	2		30
n-Propylbenzene	97		95		70-130	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1448547-3 WG1448547-4									
1,2,3-Trichlorobenzene	100		100		70-130		0		30
1,2,4-Trichlorobenzene	105		108		70-130		3		30
1,3,5-Trimethylbenzene	95		94		70-130		1		30
1,2,4-Trimethylbenzene	96		94		70-130		2		30
trans-1,4-Dichloro-2-butene	101		102		70-130		1		30
Ethyl ether	97		102		67-130		5		30
Methyl Acetate	87		89		65-130		2		30
Ethyl Acetate	88		90		70-130		2		30
Isopropyl Ether	98		99		66-130		1		30
Cyclohexane	104		104		70-130		0		30
Tert-Butyl Alcohol	94		95		70-130		1		30
Ethyl-Tert-Butyl-Ether	100		102		70-130		2		30
Tertiary-Amyl Methyl Ether	87		90		70-130		3		30
1,4-Dioxane	93		95		65-136		2		30
Methyl cyclohexane	90		90		70-130		0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		88		70-130		0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	85		86		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	85		87		70-130



SEMIVOLATILES

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/22/20 14:04
 Analyst: SZ
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/21/20 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	460		ug/kg	140	--	1
Benzidine	ND		ug/kg	580	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
Hexachlorobenzene	ND		ug/kg	100	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	--	1
2,4-Dinitrotoluene	ND		ug/kg	180	--	1
2,6-Dinitrotoluene	ND		ug/kg	180	--	1
Azobenzene	ND		ug/kg	180	--	1
Fluoranthene	8000	E	ug/kg	100	--	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Hexachlorocyclopentadiene	ND		ug/kg	500	--	1
Hexachloroethane	ND		ug/kg	140	--	1
Isophorone	ND		ug/kg	160	--	1
Naphthalene	ND		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
NDPA/DPA	ND		ug/kg	140	--	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	--	1
Butyl benzyl phthalate	ND		ug/kg	180	--	1

Project Name: TEXTRON

Lab Number: L2056793

Project Number: 60646242

Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	ND		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	3900		ug/kg	100	--	1
Benzo(a)pyrene	4200		ug/kg	140	--	1
Benzo(b)fluoranthene	5000		ug/kg	100	--	1
Benzo(k)fluoranthene	1500		ug/kg	100	--	1
Chrysene	3600		ug/kg	100	--	1
Acenaphthylene	340		ug/kg	140	--	1
Anthracene	1300		ug/kg	100	--	1
Benzo(ghi)perylene	2400		ug/kg	140	--	1
Fluorene	390		ug/kg	180	--	1
Phenanthrene	5400		ug/kg	100	--	1
Dibenzo(a,h)anthracene	540		ug/kg	100	--	1
Indeno(1,2,3-cd)pyrene	2600		ug/kg	140	--	1
Pyrene	6900		ug/kg	100	--	1
Biphenyl	ND		ug/kg	400	--	1
Aniline	ND		ug/kg	210	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
1-Methylnaphthalene	ND		ug/kg	180	--	1
2-Nitroaniline	ND		ug/kg	180	--	1
3-Nitroaniline	ND		ug/kg	180	--	1
4-Nitroaniline	ND		ug/kg	180	--	1
Dibenzofuran	270		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	210	--	1
n-Nitrosodimethylamine	ND		ug/kg	350	--	1
2,4,6-Trichlorophenol	ND		ug/kg	100	--	1
p-Chloro-m-cresol	ND		ug/kg	180	--	1
2-Chlorophenol	ND		ug/kg	180	--	1
2,4-Dichlorophenol	ND		ug/kg	160	--	1
2,4-Dimethylphenol	ND		ug/kg	180	--	1
2-Nitrophenol	ND		ug/kg	380	--	1
4-Nitrophenol	ND		ug/kg	240	--	1
2,4-Dinitrophenol	ND		ug/kg	840	--	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	--	1
Pentachlorophenol	ND		ug/kg	140	--	1

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	--	1
2,4,5-Trichlorophenol	ND		ug/kg	180	--	1
Benzoic Acid	ND		ug/kg	570	--	1
Benzyl Alcohol	ND		ug/kg	180	--	1
Carbazole	470		ug/kg	180	--	1
Pyridine	ND		ug/kg	190	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	71		18-120

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01 D
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/22/20 15:41
 Analyst: SZ
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/21/20 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	7600		ug/kg	520	--	5

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/20 09:32
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 12/21/20 17:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1447874-1					
Acenaphthene	ND		ug/kg	130	--
Benzidine	ND		ug/kg	530	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	97	--
Bis(2-chloroethyl)ether	ND		ug/kg	140	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	97	--
4-Chlorophenyl phenyl ether	ND		ug/kg	160	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachlorocyclopentadiene	ND		ug/kg	460	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	140	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	140	--
NDPA/DPA	ND		ug/kg	130	--
n-Nitrosodi-n-propylamine	ND		ug/kg	160	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/20 09:32
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 12/21/20 17:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1447874-1					
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	97	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	97	--
Benzo(k)fluoranthene	ND		ug/kg	97	--
Chrysene	ND		ug/kg	97	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	97	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	97	--
Dibenzo(a,h)anthracene	ND		ug/kg	97	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	97	--
Biphenyl	ND		ug/kg	370	--
Aniline	ND		ug/kg	190	--
4-Chloroaniline	ND		ug/kg	160	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Nitroaniline	ND		ug/kg	160	--
3-Nitroaniline	ND		ug/kg	160	--
4-Nitroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	190	--
n-Nitrosodimethylamine	ND		ug/kg	320	--
2,4,6-Trichlorophenol	ND		ug/kg	97	--
p-Chloro-m-cresol	ND		ug/kg	160	--
2-Chlorophenol	ND		ug/kg	160	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/22/20 09:32
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 12/21/20 17:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1447874-1					
2,4-Dichlorophenol	ND		ug/kg	140	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	350	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	780	--
4,6-Dinitro-o-cresol	ND		ug/kg	420	--
Pentachlorophenol	ND		ug/kg	130	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Benzoic Acid	ND		ug/kg	520	--
Benzyl Alcohol	ND		ug/kg	160	--
Carbazole	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	90		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1447874-2 WG1447874-3								
Acenaphthene	80		81		31-137	1		50
Benidine	14		13		10-66	7		50
1,2,4-Trichlorobenzene	70		74		38-107	6		50
Hexachlorobenzene	89		88		40-140	1		50
Bis(2-chloroethyl)ether	65		68		40-140	5		50
2-Chloronaphthalene	78		79		40-140	1		50
1,2-Dichlorobenzene	62		66		40-140	6		50
1,3-Dichlorobenzene	60		63		40-140	5		50
1,4-Dichlorobenzene	61		64		28-104	5		50
3,3'-Dichlorobenzidine	81		80		40-140	1		50
2,4-Dinitrotoluene	90		92		40-132	2		50
2,6-Dinitrotoluene	92		94		40-140	2		50
Azobenzene	83		84		40-140	1		50
Fluoranthene	83		85		40-140	2		50
4-Chlorophenyl phenyl ether	86		88		40-140	2		50
4-Bromophenyl phenyl ether	88		89		40-140	1		50
Bis(2-chloroisopropyl)ether	62		65		40-140	5		50
Bis(2-chloroethoxy)methane	72		74		40-117	3		50
Hexachlorobutadiene	73		76		40-140	4		50
Hexachlorocyclopentadiene	54		57		40-140	5		50
Hexachloroethane	63		66		40-140	5		50
Isophorone	70		73		40-140	4		50
Naphthalene	72		73		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1447874-2 WG1447874-3								
Nitrobenzene	66		70		40-140	6		50
NDPA/DPA	86		88		36-157	2		50
n-Nitrosodi-n-propylamine	70		75		32-121	7		50
Bis(2-ethylhexyl)phthalate	117		111		40-140	5		50
Butyl benzyl phthalate	103		102		40-140	1		50
Di-n-butylphthalate	95		94		40-140	1		50
Di-n-octylphthalate	108		104		40-140	4		50
Diethyl phthalate	92		91		40-140	1		50
Dimethyl phthalate	85		88		40-140	3		50
Benzo(a)anthracene	82		81		40-140	1		50
Benzo(a)pyrene	98		98		40-140	0		50
Benzo(b)fluoranthene	89		89		40-140	0		50
Benzo(k)fluoranthene	92		89		40-140	3		50
Chrysene	82		81		40-140	1		50
Acenaphthylene	83		85		40-140	2		50
Anthracene	80		80		40-140	0		50
Benzo(ghi)perylene	86		86		40-140	0		50
Fluorene	85		87		40-140	2		50
Phenanthrene	78		77		40-140	1		50
Dibenzo(a,h)anthracene	86		86		40-140	0		50
Indeno(1,2,3-cd)pyrene	90		91		40-140	1		50
Pyrene	81		82		35-142	1		50
Biphenyl	82		83		37-127	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1447874-2 WG1447874-3								
Aniline	58		58		40-140	0		50
4-Chloroaniline	67		65		40-140	3		50
1-Methylnaphthalene	75		76		26-130	1		50
2-Nitroaniline	95		100		47-134	5		50
3-Nitroaniline	77		76		26-129	1		50
4-Nitroaniline	88		90		41-125	2		50
Dibenzofuran	83		84		40-140	1		50
2-Methylnaphthalene	77		79		40-140	3		50
n-Nitrosodimethylamine	56		58		22-100	4		50
2,4,6-Trichlorophenol	86		90		30-130	5		50
p-Chloro-m-cresol	86		86		26-103	0		50
2-Chlorophenol	70		74		25-102	6		50
2,4-Dichlorophenol	79		83		30-130	5		50
2,4-Dimethylphenol	75		78		30-130	4		50
2-Nitrophenol	79		82		30-130	4		50
4-Nitrophenol	74		76		11-114	3		50
2,4-Dinitrophenol	74		72		4-130	3		50
4,6-Dinitro-o-cresol	97		97		10-130	0		50
Pentachlorophenol	64		67		17-109	5		50
Phenol	66		70		26-90	6		50
2-Methylphenol	72		75		30-130.	4		50
3-Methylphenol/4-Methylphenol	78		82		30-130	5		50
2,4,5-Trichlorophenol	88		89		30-130	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1447874-2 WG1447874-3								
Benzoic Acid	53		44		10-110	19		50
Benzyl Alcohol	71		74		40-140	4		50
Carbazole	80		83		54-128	4		50
Pyridine	33		29		10-93	13		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	70		72		25-120
Phenol-d6	74		77		10-120
Nitrobenzene-d5	71		72		23-120
2-Fluorobiphenyl	84		83		30-120
2,4,6-Tribromophenol	95		96		10-136
4-Terphenyl-d14	79		81		18-120

PETROLEUM HYDROCARBONS

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 12/22/20 20:06
 Analyst: SC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/21/20 18:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH (C10-C36)	196000		ug/kg	34100	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 12/22/20 11:23
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 12/21/20 18:49

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1447888-1					
TPH (C10-C36)	ND		ug/kg	32500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1447888-2								
TPH (C10-C36)	92		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	79				40-140



PCBS

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/22/20 12:20
 Analyst: CW
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/21/20 21:40
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/22/20
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/22/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	--	1	A
Aroclor 1221	ND		ug/kg	35.6	--	1	A
Aroclor 1232	ND		ug/kg	35.6	--	1	A
Aroclor 1242	ND		ug/kg	35.6	--	1	A
Aroclor 1248	37.2		ug/kg	35.6	--	1	A
Aroclor 1254	ND		ug/kg	35.6	--	1	B
Aroclor 1260	ND		ug/kg	35.6	--	1	B
Aroclor 1262	ND		ug/kg	35.6	--	1	A
Aroclor 1268	ND		ug/kg	35.6	--	1	A
PCBs, Total	37.2		ug/kg	35.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 12/21/20 15:18
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/21/20 03:12
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/20
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1447527-1						
Aroclor 1016	ND		ug/kg	31.6	--	A
Aroclor 1221	ND		ug/kg	31.6	--	A
Aroclor 1232	ND		ug/kg	31.6	--	A
Aroclor 1242	ND		ug/kg	31.6	--	A
Aroclor 1248	ND		ug/kg	31.6	--	A
Aroclor 1254	ND		ug/kg	31.6	--	A
Aroclor 1260	ND		ug/kg	31.6	--	A
Aroclor 1262	ND		ug/kg	31.6	--	A
Aroclor 1268	ND		ug/kg	31.6	--	A
PCBs, Total	ND		ug/kg	31.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	79		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1447527-2 WG1447527-3									
Aroclor 1016	96		94		40-140	2		50	A
Aroclor 1260	80		78		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		92		30-150	B
Decachlorobiphenyl	86		83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		90		30-150	A
Decachlorobiphenyl	82		79		30-150	A

METALS

Project Name: TEXTRON**Lab Number:** L2056793**Project Number:** 60646242**Report Date:** 12/29/20**SAMPLE RESULTS**

Lab ID: L2056793-01

Date Collected: 12/18/20 12:00

Client ID: SOIL DISPOSAL

Date Received: 12/18/20

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 12/23/20 01:30

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV
Barium, TCLP	0.696		mg/l	0.500	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	--	1	12/28/20 13:57	12/28/20 19:35	EPA 7470A	1,7470A	EW
Selenium, TCLP	ND		mg/l	0.500	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	--	1	12/28/20 13:30	12/29/20 00:46	EPA 3015	1,6010D	BV



Project Name: TEXTRON

Lab Number: L2056793

Project Number: 60646242

Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01

Date Collected: 12/18/20 12:00

Client ID: SOIL DISPOSAL

Date Received: 12/18/20

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.07		mg/kg	0.421	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS
Barium, Total	45.7		mg/kg	0.421	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS
Cadmium, Total	0.539		mg/kg	0.421	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS
Chromium, Total	7.98		mg/kg	0.421	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS
Lead, Total	94.4		mg/kg	2.11	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS
Mercury, Total	0.322		mg/kg	0.068	--	1	12/23/20 12:00	12/23/20 15:32	EPA 7471B	1,7471B	VW
Selenium, Total	ND		mg/kg	0.843	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS
Silver, Total	19.7		mg/kg	0.421	--	1	12/23/20 11:00	12/23/20 15:58	EPA 3050B	1,6010D	PS



Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1448281-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS
Barium, Total	ND	mg/kg	0.400	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS
Cadmium, Total	ND	mg/kg	0.400	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS
Chromium, Total	ND	mg/kg	0.400	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS
Lead, Total	ND	mg/kg	2.00	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS
Selenium, Total	ND	mg/kg	0.800	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS
Silver, Total	ND	mg/kg	0.400	--	1	12/23/20 11:00	12/23/20 15:31	1,6010D	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1448291-1									
Mercury, Total	ND	mg/kg	0.083	--	1	12/23/20 12:00	12/23/20 14:45	1,7471B	VW

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1449414-1									
Arsenic, TCLP	ND	mg/l	1.00	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV
Barium, TCLP	ND	mg/l	0.500	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV
Cadmium, TCLP	ND	mg/l	0.100	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV
Chromium, TCLP	ND	mg/l	0.200	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV
Lead, TCLP	ND	mg/l	0.500	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV
Selenium, TCLP	ND	mg/l	0.500	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV
Silver, TCLP	ND	mg/l	0.100	--	1	12/28/20 13:30	12/28/20 23:50	1,6010D	BV



Project Name: TEXTRON

Lab Number: L2056793

Project Number: 60646242

Report Date: 12/29/20

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/22/20 12:20

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1449419-1									
Mercury, TCLP	ND	mg/l	0.0010	--	1	12/28/20 13:57	12/28/20 19:28	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 12/23/20 01:30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1448281-2 SRM Lot Number: D109-540								
Arsenic, Total	100		-		70-130	-		
Barium, Total	97		-		75-125	-		
Cadmium, Total	96		-		75-125	-		
Chromium, Total	101		-		70-130	-		
Lead, Total	97		-		72-128	-		
Selenium, Total	99		-		68-132	-		
Silver, Total	105		-		68-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1448291-2 SRM Lot Number: D109-540								
Mercury, Total	90		-		60-140	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1449414-2								
Arsenic, TCLP	110		-		75-125	-		20
Barium, TCLP	98		-		75-125	-		20
Cadmium, TCLP	105		-		75-125	-		20
Chromium, TCLP	98		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	106		-		75-125	-		20
Silver, TCLP	96		-		75-125	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1449419-2					
Mercury, TCLP	98	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1448281-3 QC Sample: L2056820-01 Client ID: MS Sample												
Arsenic, Total	ND	10.6	10.7	101	-	-	-	-	75-125	-	-	20
Barium, Total	49.0	176	236	106	-	-	-	-	75-125	-	-	20
Cadmium, Total	ND	4.49	4.75	106	-	-	-	-	75-125	-	-	20
Chromium, Total	8.60	17.6	24.6	91	-	-	-	-	75-125	-	-	20
Lead, Total	ND	44.9	43.2	96	-	-	-	-	75-125	-	-	20
Selenium, Total	ND	10.6	8.61	81	-	-	-	-	75-125	-	-	20
Silver, Total	ND	26.4	26.3	99	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1448291-3 QC Sample: L2056904-01 Client ID: MS Sample												
Mercury, Total	ND	0.141	0.156	110	-	-	-	-	80-120	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1449414-3 QC Sample: L2056793-01 Client ID: SOIL DISPOSAL												
Arsenic, TCLP	ND	1.2	1.35	112	-	-	-	-	75-125	-	-	20
Barium, TCLP	0.696	20	21.1	102	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	ND	0.51	0.552	108	-	-	-	-	75-125	-	-	20
Chromium, TCLP	ND	2	2.03	102	-	-	-	-	75-125	-	-	20
Lead, TCLP	ND	5.1	5.26	103	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.25	104	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.490	98	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1449419-3 QC Sample: L2056793-01 Client ID: SOIL DISPOSAL												
Mercury, TCLP	ND	0.025	0.0231	92	-	-	-	-	80-120	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1448281-4 QC Sample: L2056820-01 Client ID: DUP Sample						
Arsenic, Total	ND	1.04	mg/kg	NC		20
Barium, Total	49.0	47.7	mg/kg	3		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	8.60	8.96	mg/kg	4		20
Lead, Total	ND	ND	mg/kg	NC		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1448291-4 QC Sample: L2056904-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1449414-4 QC Sample: L2056793-01 Client ID: SOIL DISPOSAL						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.696	0.702	mg/l	1		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1449419-4 QC Sample: L2056793-01 Client ID: SOIL DISPOSAL						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: TEXTRON**Project Number:** 60646242**Lab Number:** L2056793**Report Date:** 12/29/20**SAMPLE RESULTS**

Lab ID: L2056793-01
 Client ID: SOIL DISPOSAL
 Sample Location: PROVIDENCE, RI

Date Collected: 12/18/20 12:00
 Date Received: 12/18/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Test Material Information

Source of Material: Unknown
 Description of Material: Non-Metallic - Damp Soil
 Particle Size: Medium
 Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/22/20 23:53	1,1030	AW



Project Name: TEXTRON

Lab Number: L2056793

Project Number: 60646242

Report Date: 12/29/20

SAMPLE RESULTS

Lab ID: L2056793-01

Date Collected: 12/18/20 12:00

Client ID: SOIL DISPOSAL

Date Received: 12/18/20

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	12/19/20 10:38	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2056793

Report Date: 12/29/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1447038-1 QC Sample: L2056880-01 Client ID: DUP Sample						
Solids, Total	87.7	88.6	%	1		20

Project Name: TEXTRON
Project Number: 60646242

Serial_No:12292013:42
Lab Number: L2056793
Report Date: 12/29/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2056793-01A	Vial MeOH preserved	A	NA		4.3	Y	Absent		8260HLW(14)
L2056793-01B	Vial water preserved	A	NA		4.3	Y	Absent	18-DEC-20 18:20	8260HLW(14)
L2056793-01C	Vial water preserved	A	NA		4.3	Y	Absent	18-DEC-20 18:20	8260HLW(14)
L2056793-01D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2056793-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2056793-01F	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2056793-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2056793-01X9	Tumble Vessel	A	NA		4.3	Y	Absent		-

*Values in parentheses indicate holding time in days



Project Name: TEXTRON
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Lab Number: L2056793
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



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Project Number: 60646242

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Report Date: 12/29/20

Footnotes

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: TEXTRON
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Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2056793
Report Date: 12/29/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 12/18/20

ALPHA Job #: L2056793

8 Walkup Drive Westboro, MA 01581
Tel: 508-899-9220

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

Project Information

Project Name: TEXTRON

Project Location: PROVIDENCE, RI

Project #: 60646242

Project Manager: RORY HENDERSON

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: AECOM

Address: 250 Apollo Dr. CHELSEA, MA

Phone:

Email: RORY.HENDERSON@AECOM.COM
BRYAN.MCDONALD@AECOM.COM

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Regulatory Requirements & Project Information Requirements

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

ANALYSIS										SAMPLE INFO			
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 824.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input checked="" type="checkbox"/> RCRA8 <input type="checkbox"/> PP13	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	TPH: <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint						
16:17:15:17										Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do			
										Preservation <input type="checkbox"/> Lab to do			
Sample Comments													

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS												Sample Comments
		Date	Time			VOC	SVOC	METALS	METALS	EPH	VPH	TPH	TPH					
56793-01	SOIL DISPOSAL	12/18/20	1200	Soil	TWL	X	X	X				X	X	X				6

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

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
Q= Other

Container Type	V	G	G	G	G	G
Preservative	A/F	A	A	A	A	A

Relinquished By: [Signature] Date/Time: 12/18/20 1350

Received By: [Signature] Date/Time: 12/18/20 1515

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



ANALYTICAL REPORT

Lab Number:	L2101485
Client:	AECOM 250 Apollo Dr. Chelmsford, MA 01824
ATTN:	Rory Henderson
Phone:	(978) 905-2277
Project Name:	TEXTRON
Project Number:	60646242
Report Date:	01/15/21

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

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

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



Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2101485-01	WC-2	SOIL	PROVIDENCE, RI	01/12/21 09:00	01/12/21

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Case Narrative

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

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

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

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

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

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

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Case Narrative (continued)

Volatile Organics

L2101485-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of target compounds in the sample.

Semivolatile Organics

L2101485-01 and -01RE: The sample has elevated detection limits due to the dilution required by the sample matrix.


L2101485-01: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (1%) and 2,4,6-tribromophenol (0%); however, re-extraction achieved similar results: 2-fluorophenol (3%) and 2,4,6-tribromophenol (4%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

Petroleum Hydrocarbon Quantitation

L2101485-01: The sample has an elevated detection limit due to the dilution required by the elevated concentration of target compound in the sample.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 01/15/21

ORGANICS

VOLATILES

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 01/14/21 10:52
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	--	1
1,1-Dichloroethane	ND		ug/kg	65	--	1
Chloroform	ND		ug/kg	98	--	1
Carbon tetrachloride	ND		ug/kg	65	--	1
1,2-Dichloropropane	ND		ug/kg	65	--	1
Dibromochloromethane	ND		ug/kg	65	--	1
1,1,2-Trichloroethane	ND		ug/kg	65	--	1
Tetrachloroethene	73		ug/kg	33	--	1
Chlorobenzene	ND		ug/kg	33	--	1
Trichlorofluoromethane	ND		ug/kg	260	--	1
1,2-Dichloroethane	ND		ug/kg	65	--	1
1,1,1-Trichloroethane	ND		ug/kg	33	--	1
Bromodichloromethane	ND		ug/kg	33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	65	--	1
cis-1,3-Dichloropropene	ND		ug/kg	33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	33	--	1
1,1-Dichloropropene	ND		ug/kg	33	--	1
Bromoform	ND		ug/kg	260	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	--	1
Benzene	ND		ug/kg	33	--	1
Toluene	78		ug/kg	65	--	1
Ethylbenzene	740		ug/kg	65	--	1
Chloromethane	ND		ug/kg	260	--	1
Bromomethane	ND		ug/kg	130	--	1
Vinyl chloride	ND		ug/kg	65	--	1
Chloroethane	ND		ug/kg	130	--	1
1,1-Dichloroethene	ND		ug/kg	65	--	1
trans-1,2-Dichloroethene	ND		ug/kg	98	--	1

Project Name: TEXTRON

Lab Number: L2101485

Project Number: 60646242

Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	46		ug/kg	33	--	1
1,2-Dichlorobenzene	900		ug/kg	130	--	1
1,3-Dichlorobenzene	ND		ug/kg	130	--	1
1,4-Dichlorobenzene	320		ug/kg	130	--	1
Methyl tert butyl ether	ND		ug/kg	130	--	1
p/m-Xylene	880		ug/kg	130	--	1
o-Xylene	600		ug/kg	65	--	1
Xylene (Total)	1500		ug/kg	65	--	1
cis-1,2-Dichloroethene	ND		ug/kg	65	--	1
1,2-Dichloroethene (total)	ND		ug/kg	65	--	1
Dibromomethane	ND		ug/kg	130	--	1
1,4-Dichlorobutane	ND		ug/kg	650	--	1
1,2,3-Trichloropropane	ND		ug/kg	130	--	1
Styrene	ND		ug/kg	65	--	1
Dichlorodifluoromethane	ND		ug/kg	650	--	1
Acetone	ND		ug/kg	650	--	1
Carbon disulfide	ND		ug/kg	650	--	1
2-Butanone	ND		ug/kg	650	--	1
Vinyl acetate	ND		ug/kg	650	--	1
4-Methyl-2-pentanone	ND		ug/kg	650	--	1
2-Hexanone	ND		ug/kg	650	--	1
Ethyl methacrylate	ND		ug/kg	650	--	1
Acrylonitrile	ND		ug/kg	260	--	1
Bromochloromethane	ND		ug/kg	130	--	1
Tetrahydrofuran	ND		ug/kg	260	--	1
2,2-Dichloropropane	ND		ug/kg	130	--	1
1,2-Dibromoethane	ND		ug/kg	65	--	1
1,3-Dichloropropane	ND		ug/kg	130	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	--	1
Bromobenzene	ND		ug/kg	130	--	1
n-Butylbenzene	750		ug/kg	65	--	1
sec-Butylbenzene	700		ug/kg	65	--	1
tert-Butylbenzene	ND		ug/kg	130	--	1
o-Chlorotoluene	ND		ug/kg	130	--	1
p-Chlorotoluene	ND		ug/kg	130	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	260	--	1

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Isopropylbenzene	410		ug/kg	65	--	1
p-Isopropyltoluene	590		ug/kg	65	--	1
Naphthalene	4000		ug/kg	260	--	1
n-Propylbenzene	800		ug/kg	65	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	--	1
1,3,5-Trimethylbenzene	910		ug/kg	130	--	1
1,2,4-Trimethylbenzene	3600		ug/kg	130	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	--	1
Ethyl ether	ND		ug/kg	130	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	98		70-130

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/14/21 08:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1455095-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/14/21 08:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1455095-5					
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylene (Total)	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene (total)	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,4-Dichlorobutane	ND		ug/kg	500	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
2-Butanone	ND		ug/kg	500	--
Vinyl acetate	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Ethyl methacrylate	ND		ug/kg	500	--
Acrolein	ND		ug/kg	1200	--
Acrylonitrile	ND		ug/kg	200	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/14/21 08:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1455095-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
1,3,5-Trichlorobenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--
Halothane	ND		ug/kg	500	--
Ethyl ether	ND		ug/kg	100	--
Methyl Acetate	ND		ug/kg	200	--
Ethyl Acetate	ND		ug/kg	500	--
Isopropyl Ether	ND		ug/kg	100	--
Cyclohexane	ND		ug/kg	500	--
tert-Butyl Alcohol	ND		ug/kg	1000	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 01/14/21 08:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1455095-5					
Methyl cyclohexane	ND		ug/kg	200	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	200	--
1,4-Diethylbenzene	ND		ug/kg	100	--
4-Ethyltoluene	ND		ug/kg	100	--
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	--

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1455095-3 WG1455095-4								
Methylene chloride	97		92		70-130	5		30
1,1-Dichloroethane	107		101		70-130	6		30
Chloroform	103		93		70-130	10		30
Carbon tetrachloride	106		103		70-130	3		30
1,2-Dichloropropane	105		99		70-130	6		30
Dibromochloromethane	102		97		70-130	5		30
1,1,2-Trichloroethane	95		89		70-130	7		30
2-Chloroethylvinyl ether	102		96		70-130	6		30
Tetrachloroethene	111		106		70-130	5		30
Chlorobenzene	103		99		70-130	4		30
Trichlorofluoromethane	114		108		70-139	5		30
1,2-Dichloroethane	109		103		70-130	6		30
1,1,1-Trichloroethane	101		97		70-130	4		30
Bromodichloromethane	95		92		70-130	3		30
trans-1,3-Dichloropropene	106		100		70-130	6		30
cis-1,3-Dichloropropene	110		105		70-130	5		30
1,1-Dichloropropene	110		104		70-130	6		30
Bromoform	96		92		70-130	4		30
1,1,2,2-Tetrachloroethane	95		90		70-130	5		30
Benzene	106		101		70-130	5		30
Toluene	104		98		70-130	6		30
Ethylbenzene	102		97		70-130	5		30
Chloromethane	101		91		52-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON

Lab Number: L2101485

Project Number: 60646242

Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1455095-3 WG1455095-4								
Bromomethane	104		97		57-147	7		30
Vinyl chloride	110		101		67-130	9		30
Chloroethane	116		109		50-151	6		30
1,1-Dichloroethene	105		98		65-135	7		30
trans-1,2-Dichloroethene	107		100		70-130	7		30
Trichloroethene	102		98		70-130	4		30
1,2-Dichlorobenzene	104		101		70-130	3		30
1,3-Dichlorobenzene	106		103		70-130	3		30
1,4-Dichlorobenzene	105		102		70-130	3		30
Methyl tert butyl ether	107		101		66-130	6		30
p/m-Xylene	106		101		70-130	5		30
o-Xylene	106		101		70-130	5		30
cis-1,2-Dichloroethene	104		99		70-130	5		30
Dibromomethane	106		103		70-130	3		30
1,4-Dichlorobutane	100		95		70-130	5		30
1,2,3-Trichloropropane	102		98		68-130	4		30
Styrene	106		101		70-130	5		30
Dichlorodifluoromethane	97		91		30-146	6		30
Acetone	104		92		54-140	12		30
Carbon disulfide	101		97		59-130	4		30
2-Butanone	86		80		70-130	7		30
Vinyl acetate	106		99		70-130	7		30
4-Methyl-2-pentanone	99		93		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1455095-3 WG1455095-4								
2-Hexanone	98		89		70-130	10		30
Ethyl methacrylate	99		93		70-130	6		30
Acrolein	106		96		70-130	10		30
Acrylonitrile	105		98		70-130	7		30
Bromochloromethane	114		107		70-130	6		30
Tetrahydrofuran	105		95		66-130	10		30
2,2-Dichloropropane	112		103		70-130	8		30
1,2-Dibromoethane	108		102		70-130	6		30
1,3-Dichloropropane	105		98		69-130	7		30
1,1,1,2-Tetrachloroethane	103		98		70-130	5		30
Bromobenzene	105		101		70-130	4		30
n-Butylbenzene	104		101		70-130	3		30
sec-Butylbenzene	103		100		70-130	3		30
tert-Butylbenzene	103		100		70-130	3		30
1,3,5-Trichlorobenzene	110		107		70-139	3		30
o-Chlorotoluene	103		98		70-130	5		30
p-Chlorotoluene	101		96		70-130	5		30
1,2-Dibromo-3-chloropropane	96		93		68-130	3		30
Hexachlorobutadiene	99		98		67-130	1		30
Isopropylbenzene	103		100		70-130	3		30
p-Isopropyltoluene	105		101		70-130	4		30
Naphthalene	100		96		70-130	4		30
n-Propylbenzene	104		100		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1455095-3 WG1455095-4								
1,2,3-Trichlorobenzene	105		101		70-130	4		30
1,2,4-Trichlorobenzene	108		107		70-130	1		30
1,3,5-Trimethylbenzene	103		99		70-130	4		30
1,2,4-Trimethylbenzene	105		100		70-130	5		30
trans-1,4-Dichloro-2-butene	101		95		70-130	6		30
Halothane	107		103		70-130	4		20
Ethyl ether	110		102		67-130	8		30
Methyl Acetate	103		97		65-130	6		30
Ethyl Acetate	108		100		70-130	8		30
Isopropyl Ether	105		98		66-130	7		30
Cyclohexane	97		91		70-130	6		30
tert-Butyl Alcohol	107		98		70-130	9		30
Ethyl-Tert-Butyl-Ether	107		100		70-130	7		30
Tertiary-Amyl Methyl Ether	105		99		70-130	6		30
1,4-Dioxane	99		92		65-136	7		30
Methyl cyclohexane	100		96		70-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		103		70-130	6		30
1,4-Diethylbenzene	106		101		70-130	5		30
4-Ethyltoluene	105		101		70-130	4		30
1,2,4,5-Tetramethylbenzene	104		100		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1455095-3 WG1455095-4

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 REVD
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 01/15/21 06:27
 Analyst: IM
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 01/14/21 15:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	730	--	5
Benzidine	ND		ug/kg	3000	--	5
1,2,4-Trichlorobenzene	ND		ug/kg	920	--	5
Hexachlorobenzene	ND		ug/kg	550	--	5
Bis(2-chloroethyl)ether	ND		ug/kg	820	--	5
2-Chloronaphthalene	ND		ug/kg	920	--	5
1,2-Dichlorobenzene	ND		ug/kg	920	--	5
1,3-Dichlorobenzene	ND		ug/kg	920	--	5
1,4-Dichlorobenzene	ND		ug/kg	920	--	5
3,3'-Dichlorobenzidine	ND		ug/kg	920	--	5
2,4-Dinitrotoluene	ND		ug/kg	920	--	5
2,6-Dinitrotoluene	ND		ug/kg	920	--	5
Azobenzene	ND		ug/kg	920	--	5
Fluoranthene	1200		ug/kg	550	--	5
4-Chlorophenyl phenyl ether	ND		ug/kg	920	--	5
4-Bromophenyl phenyl ether	ND		ug/kg	920	--	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	--	5
Bis(2-chloroethoxy)methane	ND		ug/kg	990	--	5
Hexachlorobutadiene	ND		ug/kg	920	--	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	--	5
Hexachloroethane	ND		ug/kg	730	--	5
Isophorone	ND		ug/kg	820	--	5
Naphthalene	1200		ug/kg	920	--	5
Nitrobenzene	ND		ug/kg	820	--	5
NDPA/DPA	750		ug/kg	730	--	5
n-Nitrosodi-n-propylamine	ND		ug/kg	920	--	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	920	--	5
Butyl benzyl phthalate	ND		ug/kg	920	--	5

Project Name: TEXTRON

Lab Number: L2101485

Project Number: 60646242

Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 REVD

Date Collected: 01/12/21 09:00

Client ID: WC-2

Date Received: 01/12/21

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	920	--	5
Di-n-octylphthalate	ND		ug/kg	920	--	5
Diethyl phthalate	ND		ug/kg	920	--	5
Dimethyl phthalate	ND		ug/kg	920	--	5
Benzo(a)anthracene	800		ug/kg	550	--	5
Benzo(a)pyrene	ND		ug/kg	730	--	5
Benzo(b)fluoranthene	570		ug/kg	550	--	5
Benzo(k)fluoranthene	ND		ug/kg	550	--	5
Chrysene	1000		ug/kg	550	--	5
Acenaphthylene	ND		ug/kg	730	--	5
Anthracene	570		ug/kg	550	--	5
Benzo(ghi)perylene	ND		ug/kg	730	--	5
Fluorene	980		ug/kg	920	--	5
Phenanthrene	3000		ug/kg	550	--	5
Dibenzo(a,h)anthracene	ND		ug/kg	550	--	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	730	--	5
Pyrene	2000		ug/kg	550	--	5
Biphenyl	ND		ug/kg	2100	--	5
Aniline	ND		ug/kg	1100	--	5
4-Chloroaniline	ND		ug/kg	920	--	5
1-Methylnaphthalene	5000		ug/kg	920	--	5
2-Nitroaniline	ND		ug/kg	920	--	5
3-Nitroaniline	ND		ug/kg	920	--	5
4-Nitroaniline	ND		ug/kg	920	--	5
Dibenzofuran	ND		ug/kg	920	--	5
2-Methylnaphthalene	4900		ug/kg	1100	--	5
n-Nitrosodimethylamine	ND		ug/kg	1800	--	5
2,4,6-Trichlorophenol	ND		ug/kg	550	--	5
p-Chloro-m-cresol	ND		ug/kg	920	--	5
2-Chlorophenol	ND		ug/kg	920	--	5
2,4-Dichlorophenol	ND		ug/kg	820	--	5
2,4-Dimethylphenol	ND		ug/kg	920	--	5
2-Nitrophenol	ND		ug/kg	2000	--	5
4-Nitrophenol	ND		ug/kg	1300	--	5
2,4-Dinitrophenol	ND		ug/kg	4400	--	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	--	5
Pentachlorophenol	ND		ug/kg	730	--	5

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 REVD
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	920	--	5
2-Methylphenol	ND		ug/kg	920	--	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	--	5
2,4,5-Trichlorophenol	ND		ug/kg	920	--	5
Benzoic Acid	ND		ug/kg	3000	--	5
Benzyl Alcohol	ND		ug/kg	920	--	5
Carbazole	ND		ug/kg	920	--	5
Pyridine	ND		ug/kg	990	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	3	Q	25-120
Phenol-d6	18		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	4	Q	10-136
4-Terphenyl-d14	68		18-120

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 D
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 01/15/21 11:52
 Analyst: IM
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 01/13/21 08:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	720	--	5
Benzidine	ND		ug/kg	3000	--	5
1,2,4-Trichlorobenzene	ND		ug/kg	910	--	5
Hexachlorobenzene	ND		ug/kg	540	--	5
Bis(2-chloroethyl)ether	ND		ug/kg	820	--	5
2-Chloronaphthalene	ND		ug/kg	910	--	5
1,2-Dichlorobenzene	ND		ug/kg	910	--	5
1,3-Dichlorobenzene	ND		ug/kg	910	--	5
1,4-Dichlorobenzene	ND		ug/kg	910	--	5
3,3'-Dichlorobenzidine	ND		ug/kg	910	--	5
2,4-Dinitrotoluene	ND		ug/kg	910	--	5
2,6-Dinitrotoluene	ND		ug/kg	910	--	5
Azobenzene	ND		ug/kg	910	--	5
Fluoranthene	1100		ug/kg	540	--	5
4-Chlorophenyl phenyl ether	ND		ug/kg	910	--	5
4-Bromophenyl phenyl ether	ND		ug/kg	910	--	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	--	5
Bis(2-chloroethoxy)methane	ND		ug/kg	980	--	5
Hexachlorobutadiene	ND		ug/kg	910	--	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	--	5
Hexachloroethane	ND		ug/kg	720	--	5
Isophorone	ND		ug/kg	820	--	5
Naphthalene	1200		ug/kg	910	--	5
Nitrobenzene	ND		ug/kg	820	--	5
NDPA/DPA	1000		ug/kg	720	--	5
n-Nitrosodi-n-propylamine	ND		ug/kg	910	--	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	910	--	5
Butyl benzyl phthalate	ND		ug/kg	910	--	5

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 D
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	910	--	5
Di-n-octylphthalate	ND		ug/kg	910	--	5
Diethyl phthalate	ND		ug/kg	910	--	5
Dimethyl phthalate	ND		ug/kg	910	--	5
Benzo(a)anthracene	710		ug/kg	540	--	5
Benzo(a)pyrene	ND		ug/kg	720	--	5
Benzo(b)fluoranthene	700		ug/kg	540	--	5
Benzo(k)fluoranthene	ND		ug/kg	540	--	5
Chrysene	930		ug/kg	540	--	5
Acenaphthylene	ND		ug/kg	720	--	5
Anthracene	ND		ug/kg	540	--	5
Benzo(ghi)perylene	ND		ug/kg	720	--	5
Fluorene	1100		ug/kg	910	--	5
Phenanthrene	2800		ug/kg	540	--	5
Dibenzo(a,h)anthracene	ND		ug/kg	540	--	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	720	--	5
Pyrene	1900		ug/kg	540	--	5
Biphenyl	ND		ug/kg	2100	--	5
Aniline	ND		ug/kg	1100	--	5
4-Chloroaniline	ND		ug/kg	910	--	5
1-Methylnaphthalene	5100		ug/kg	910	--	5
2-Nitroaniline	ND		ug/kg	910	--	5
3-Nitroaniline	ND		ug/kg	910	--	5
4-Nitroaniline	ND		ug/kg	910	--	5
Dibenzofuran	ND		ug/kg	910	--	5
2-Methylnaphthalene	5200		ug/kg	1100	--	5
n-Nitrosodimethylamine	ND		ug/kg	1800	--	5
2,4,6-Trichlorophenol	ND		ug/kg	540	--	5
p-Chloro-m-cresol	ND		ug/kg	910	--	5
2-Chlorophenol	ND		ug/kg	910	--	5
2,4-Dichlorophenol	ND		ug/kg	820	--	5
2,4-Dimethylphenol	ND		ug/kg	910	--	5
2-Nitrophenol	ND		ug/kg	2000	--	5
4-Nitrophenol	ND		ug/kg	1300	--	5
2,4-Dinitrophenol	ND		ug/kg	4400	--	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	--	5
Pentachlorophenol	ND		ug/kg	720	--	5

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 D
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	910	--	5
2-Methylphenol	ND		ug/kg	910	--	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	--	5
2,4,5-Trichlorophenol	ND		ug/kg	910	--	5
Benzoic Acid	ND		ug/kg	2900	--	5
Benzyl Alcohol	ND		ug/kg	910	--	5
Carbazole	ND		ug/kg	910	--	5
Pyridine	ND		ug/kg	980	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	1	Q	25-120
Phenol-d6	15		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	61		18-120

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/13/21 13:45
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/13/21 01:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1454321-1					
Acenaphthene	ND		ug/kg	130	--
Benzidine	ND		ug/kg	540	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	98	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	98	--
4-Chlorophenyl phenyl ether	ND		ug/kg	160	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachlorocyclopentadiene	ND		ug/kg	460	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
NDPA/DPA	ND		ug/kg	130	--
n-Nitrosodi-n-propylamine	ND		ug/kg	160	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/13/21 13:45
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/13/21 01:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1454321-1					
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	98	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	98	--
Benzo(k)fluoranthene	ND		ug/kg	98	--
Chrysene	ND		ug/kg	98	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	98	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	98	--
Dibenzo(a,h)anthracene	ND		ug/kg	98	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	98	--
Biphenyl	ND		ug/kg	370	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	160	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Nitroaniline	ND		ug/kg	160	--
3-Nitroaniline	ND		ug/kg	160	--
4-Nitroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
n-Nitrosodimethylamine	ND		ug/kg	320	--
2,4,6-Trichlorophenol	ND		ug/kg	98	--
p-Chloro-m-cresol	ND		ug/kg	160	--
2-Chlorophenol	ND		ug/kg	160	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 01/13/21 13:45
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/13/21 01:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1454321-1					
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	350	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	780	--
4,6-Dinitro-o-cresol	ND		ug/kg	420	--
Pentachlorophenol	ND		ug/kg	130	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Benzoic Acid	ND		ug/kg	530	--
Benzyl Alcohol	ND		ug/kg	160	--
Carbazole	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	88		18-120

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/15/21 00:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/14/21 15:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1455121-1					
Acenaphthene	ND		ug/kg	130	--
Benzidine	ND		ug/kg	540	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	98	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	98	--
4-Chlorophenyl phenyl ether	ND		ug/kg	160	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachlorocyclopentadiene	ND		ug/kg	470	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
NDPA/DPA	ND		ug/kg	130	--
n-Nitrosodi-n-propylamine	ND		ug/kg	160	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/15/21 00:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/14/21 15:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1455121-1					
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	98	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	98	--
Benzo(k)fluoranthene	ND		ug/kg	98	--
Chrysene	ND		ug/kg	98	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	98	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	98	--
Dibenzo(a,h)anthracene	ND		ug/kg	98	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	98	--
Biphenyl	ND		ug/kg	370	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	160	--
1-Methylnaphthalene	ND		ug/kg	160	--
2-Nitroaniline	ND		ug/kg	160	--
3-Nitroaniline	ND		ug/kg	160	--
4-Nitroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
n-Nitrosodimethylamine	ND		ug/kg	330	--
2,4,6-Trichlorophenol	ND		ug/kg	98	--
p-Chloro-m-cresol	ND		ug/kg	160	--
2-Chlorophenol	ND		ug/kg	160	--

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/15/21 00:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/14/21 15:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1455121-1					
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	350	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	790	--
4,6-Dinitro-o-cresol	ND		ug/kg	430	--
Pentachlorophenol	ND		ug/kg	130	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Benzoic Acid	ND		ug/kg	530	--
Benzyl Alcohol	ND		ug/kg	160	--
Carbazole	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1454321-2 WG1454321-3								
Acenaphthene	81		80		31-137	1		50
Benzidine	37		40		10-66	8		50
1,2,4-Trichlorobenzene	74		72		38-107	3		50
Hexachlorobenzene	83		81		40-140	2		50
Bis(2-chloroethyl)ether	77		79		40-140	3		50
2-Chloronaphthalene	80		77		40-140	4		50
1,2-Dichlorobenzene	70		68		40-140	3		50
1,3-Dichlorobenzene	69		68		40-140	1		50
1,4-Dichlorobenzene	67		67		28-104	0		50
3,3'-Dichlorobenzidine	72		72		40-140	0		50
2,4-Dinitrotoluene	101		102		40-132	1		50
2,6-Dinitrotoluene	86		85		40-140	1		50
Azobenzene	100		100		40-140	0		50
Fluoranthene	85		82		40-140	4		50
4-Chlorophenyl phenyl ether	81		82		40-140	1		50
4-Bromophenyl phenyl ether	83		83		40-140	0		50
Bis(2-chloroisopropyl)ether	73		77		40-140	5		50
Bis(2-chloroethoxy)methane	87		89		40-117	2		50
Hexachlorobutadiene	66		64		40-140	3		50
Hexachlorocyclopentadiene	71		70		40-140	1		50
Hexachloroethane	72		74		40-140	3		50
Isophorone	94		96		40-140	2		50
Naphthalene	75		74		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1454321-2 WG1454321-3								
Nitrobenzene	80		82		40-140	2		50
NDPA/DPA	87		86		36-157	1		50
n-Nitrosodi-n-propylamine	89		92		32-121	3		50
Bis(2-ethylhexyl)phthalate	117		115		40-140	2		50
Butyl benzyl phthalate	95		92		40-140	3		50
Di-n-butylphthalate	108		105		40-140	3		50
Di-n-octylphthalate	112		111		40-140	1		50
Diethyl phthalate	97		97		40-140	0		50
Dimethyl phthalate	88		86		40-140	2		50
Benzo(a)anthracene	90		90		40-140	0		50
Benzo(a)pyrene	97		97		40-140	0		50
Benzo(b)fluoranthene	93		94		40-140	1		50
Benzo(k)fluoranthene	92		89		40-140	3		50
Chrysene	88		87		40-140	1		50
Acenaphthylene	85		85		40-140	0		50
Anthracene	86		86		40-140	0		50
Benzo(ghi)perylene	90		85		40-140	6		50
Fluorene	84		83		40-140	1		50
Phenanthrene	81		80		40-140	1		50
Dibenzo(a,h)anthracene	93		86		40-140	8		50
Indeno(1,2,3-cd)pyrene	90		85		40-140	6		50
Pyrene	82		81		35-142	1		50
Biphenyl	84		82		37-127	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1454321-2 WG1454321-3								
Aniline	52		54		40-140	4		50
4-Chloroaniline	44		52		40-140	17		50
1-Methylnaphthalene	76		77		26-130	1		50
2-Nitroaniline	88		90		47-134	2		50
3-Nitroaniline	77		79		26-129	3		50
4-Nitroaniline	98		99		41-125	1		50
Dibenzofuran	81		80		40-140	1		50
2-Methylnaphthalene	76		74		40-140	3		50
n-Nitrosodimethylamine	71		74		22-100	4		50
2,4,6-Trichlorophenol	83		82		30-130	1		50
p-Chloro-m-cresol	93		94		26-103	1		50
2-Chlorophenol	82		82		25-102	0		50
2,4-Dichlorophenol	86		85		30-130	1		50
2,4-Dimethylphenol	91		90		30-130	1		50
2-Nitrophenol	92		90		30-130	2		50
4-Nitrophenol	100		100		11-114	0		50
2,4-Dinitrophenol	67		67		4-130	0		50
4,6-Dinitro-o-cresol	83		81		10-130	2		50
Pentachlorophenol	84		82		17-109	2		50
Phenol	84		85		26-90	1		50
2-Methylphenol	86		88		30-130.	2		50
3-Methylphenol/4-Methylphenol	93		94		30-130	1		50
2,4,5-Trichlorophenol	84		84		30-130	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1454321-2 WG1454321-3								
Benzoic Acid	21		23		10-110	9		50
Benzyl Alcohol	85		89		40-140	5		50
Carbazole	90		88		54-128	2		50
Pyridine	65		68		10-93	5		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	83		84		25-120
Phenol-d6	84		86		10-120
Nitrobenzene-d5	83		87		23-120
2-Fluorobiphenyl	79		77		30-120
2,4,6-Tribromophenol	94		95		10-136
4-Terphenyl-d14	84		83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1455121-2 WG1455121-3								
Acenaphthene	66		74		31-137	11		50
Benidine	38		39		10-66	3		50
1,2,4-Trichlorobenzene	65		71		38-107	9		50
Hexachlorobenzene	80		92		40-140	14		50
Bis(2-chloroethyl)ether	63		69		40-140	9		50
2-Chloronaphthalene	67		74		40-140	10		50
1,2-Dichlorobenzene	63		68		40-140	8		50
1,3-Dichlorobenzene	62		70		40-140	12		50
1,4-Dichlorobenzene	61		67		28-104	9		50
3,3'-Dichlorobenzidine	55		58		40-140	5		50
2,4-Dinitrotoluene	68		76		40-132	11		50
2,6-Dinitrotoluene	73		82		40-140	12		50
Azobenzene	59		68		40-140	14		50
Fluoranthene	65		77		40-140	17		50
4-Chlorophenyl phenyl ether	68		76		40-140	11		50
4-Bromophenyl phenyl ether	74		86		40-140	15		50
Bis(2-chloroisopropyl)ether	50		56		40-140	11		50
Bis(2-chloroethoxy)methane	66		73		40-117	10		50
Hexachlorobutadiene	69		76		40-140	10		50
Hexachlorocyclopentadiene	53		61		40-140	14		50
Hexachloroethane	60		64		40-140	6		50
Isophorone	64		70		40-140	9		50
Naphthalene	66		72		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1455121-2 WG1455121-3								
Nitrobenzene	61		64		40-140	5		50
NDPA/DPA	67		77		36-157	14		50
n-Nitrosodi-n-propylamine	62		67		32-121	8		50
Bis(2-ethylhexyl)phthalate	71		79		40-140	11		50
Butyl benzyl phthalate	65		79		40-140	19		50
Di-n-butylphthalate	68		81		40-140	17		50
Di-n-octylphthalate	65		75		40-140	14		50
Diethyl phthalate	66		75		40-140	13		50
Dimethyl phthalate	69		78		40-140	12		50
Benzo(a)anthracene	66		75		40-140	13		50
Benzo(a)pyrene	65		75		40-140	14		50
Benzo(b)fluoranthene	64		84		40-140	27		50
Benzo(k)fluoranthene	70		68		40-140	3		50
Chrysene	64		74		40-140	14		50
Acenaphthylene	75		84		40-140	11		50
Anthracene	66		79		40-140	18		50
Benzo(ghi)perylene	68		78		40-140	14		50
Fluorene	70		76		40-140	8		50
Phenanthrene	64		75		40-140	16		50
Dibenzo(a,h)anthracene	70		80		40-140	13		50
Indeno(1,2,3-cd)pyrene	66		79		40-140	18		50
Pyrene	66		77		35-142	15		50
Biphenyl	71		80		37-127	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1455121-2 WG1455121-3								
Aniline	52		53		40-140	2		50
4-Chloroaniline	50		55		40-140	10		50
1-Methylnaphthalene	58		64		26-130	10		50
2-Nitroaniline	73		81		47-134	10		50
3-Nitroaniline	56		59		26-129	5		50
4-Nitroaniline	62		70		41-125	12		50
Dibenzofuran	65		75		40-140	14		50
2-Methylnaphthalene	66		73		40-140	10		50
n-Nitrosodimethylamine	56		60		22-100	7		50
2,4,6-Trichlorophenol	75		85		30-130	13		50
p-Chloro-m-cresol	69		76		26-103	10		50
2-Chlorophenol	71		79		25-102	11		50
2,4-Dichlorophenol	73		81		30-130	10		50
2,4-Dimethylphenol	70		78		30-130	11		50
2-Nitrophenol	69		77		30-130	11		50
4-Nitrophenol	59		69		11-114	16		50
2,4-Dinitrophenol	60		70		4-130	15		50
4,6-Dinitro-o-cresol	64		74		10-130	14		50
Pentachlorophenol	66		76		17-109	14		50
Phenol	62		68		26-90	9		50
2-Methylphenol	69		77		30-130.	11		50
3-Methylphenol/4-Methylphenol	73		81		30-130	10		50
2,4,5-Trichlorophenol	76		84		30-130	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1455121-2 WG1455121-3								
Benzoic Acid	68		75		10-110	10		50
Benzyl Alcohol	67		72		40-140	7		50
Carbazole	66		79		54-128	18		50
Pyridine	51		54		10-93	6		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	74		85		25-120
Phenol-d6	71		75		10-120
Nitrobenzene-d5	64		70		23-120
2-Fluorobiphenyl	74		82		30-120
2,4,6-Tribromophenol	89		102		10-136
4-Terphenyl-d14	76		90		18-120

PETROLEUM HYDROCARBONS

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01 D
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 01/13/21 13:58
 Analyst: MEO
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 01/12/21 20:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

TPH (C10-C36)	8370000		ug/kg	729000	--	20
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		40-140

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 01/12/21 07:41
Analyst: LL

Extraction Method: EPA 3546
Extraction Date: 01/12/21 00:34

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1453867-1					
TPH (C10-C36)	ND		ug/kg	33200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1453867-2								
TPH (C10-C36)	71		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	62				40-140



PCBS

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01
 Client ID: WC-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00
 Date Received: 01/12/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 01/13/21 21:26
 Analyst: JAW
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 01/13/21 09:32
 Cleanup Method: EPA 3665A
 Cleanup Date: 01/13/21
 Cleanup Method: EPA 3660B
 Cleanup Date: 01/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	--	1	A
Aroclor 1221	ND		ug/kg	36.5	--	1	A
Aroclor 1232	ND		ug/kg	36.5	--	1	A
Aroclor 1242	ND		ug/kg	36.5	--	1	A
Aroclor 1248	ND		ug/kg	36.5	--	1	A
Aroclor 1254	ND		ug/kg	36.5	--	1	B
Aroclor 1260	ND		ug/kg	36.5	--	1	A
Aroclor 1262	ND		ug/kg	36.5	--	1	A
Aroclor 1268	ND		ug/kg	36.5	--	1	A
PCBs, Total	ND		ug/kg	36.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	47		30-150	B
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	42		30-150	A

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 01/13/21 09:39
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 01/12/21 23:16
Cleanup Method: EPA 3665A
Cleanup Date: 01/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1454303-1						
Aroclor 1016	ND		ug/kg	32.3	--	A
Aroclor 1221	ND		ug/kg	32.3	--	A
Aroclor 1232	ND		ug/kg	32.3	--	A
Aroclor 1242	ND		ug/kg	32.3	--	A
Aroclor 1248	ND		ug/kg	32.3	--	A
Aroclor 1254	ND		ug/kg	32.3	--	A
Aroclor 1260	ND		ug/kg	32.3	--	A
Aroclor 1262	ND		ug/kg	32.3	--	A
Aroclor 1268	ND		ug/kg	32.3	--	A
PCBs, Total	ND		ug/kg	32.3	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	67		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1454303-2 WG1454303-3									
Aroclor 1016	73		78		40-140	7		50	A
Aroclor 1260	59		63		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		90		30-150	B
Decachlorobiphenyl	76		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		82		30-150	A
Decachlorobiphenyl	66		72		30-150	A

METALS

Project Name: TEXTRON**Lab Number:** L2101485**Project Number:** 60646242**Report Date:** 01/15/21**SAMPLE RESULTS**

Lab ID: L2101485-01

Date Collected: 01/12/21 09:00

Client ID: WC-2

Date Received: 01/12/21

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 01/13/21 04:32

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW
Barium, TCLP	ND		mg/l	0.500	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW
Mercury, TCLP	ND		mg/l	0.0010	--	1	01/14/21 08:37	01/14/21 21:06	EPA 7470A	1,7470A	MISSI
Selenium, TCLP	ND		mg/l	0.500	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	--	1	01/14/21 09:06	01/14/21 19:44	EPA 3015	1,6010D	EW



Project Name: TEXTRON

Lab Number: L2101485

Project Number: 60646242

Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01

Date Collected: 01/12/21 09:00

Client ID: WC-2

Date Received: 01/12/21

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.58		mg/kg	0.421	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV
Barium, Total	32.2		mg/kg	0.421	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.421	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV
Chromium, Total	9.72		mg/kg	0.421	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV
Lead, Total	16.6		mg/kg	2.10	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV
Mercury, Total	0.077		mg/kg	0.070	--	1	01/13/21 07:20	01/13/21 12:07	EPA 7471B	1,7471B	VW
Selenium, Total	ND		mg/kg	0.842	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV
Silver, Total	2.06		mg/kg	0.421	--	1	01/13/21 06:45	01/13/21 22:34	EPA 3050B	1,6010D	BV



Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1454218-1									
Mercury, Total	ND	mg/kg	0.083	--	1	01/13/21 07:20	01/13/21 11:38	1,7471B	VW

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1454368-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD
Barium, Total	ND	mg/kg	0.400	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD
Cadmium, Total	ND	mg/kg	0.400	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD
Chromium, Total	ND	mg/kg	0.400	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD
Lead, Total	ND	mg/kg	2.00	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD
Selenium, Total	ND	mg/kg	0.800	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD
Silver, Total	ND	mg/kg	0.400	--	1	01/13/21 06:45	01/13/21 10:22	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1454865-1									
Arsenic, TCLP	ND	mg/l	1.00	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW
Barium, TCLP	ND	mg/l	0.500	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW
Cadmium, TCLP	ND	mg/l	0.100	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW
Chromium, TCLP	ND	mg/l	0.200	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW
Lead, TCLP	ND	mg/l	0.500	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW
Selenium, TCLP	ND	mg/l	0.500	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW
Silver, TCLP	ND	mg/l	0.100	--	1	01/14/21 09:06	01/14/21 19:35	1,6010D	EW



Project Name: TEXTRON

Lab Number: L2101485

Project Number: 60646242

Report Date: 01/15/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 01/12/21 14:03

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1454866-1									
Mercury, TCLP	ND	mg/l	0.0010	--	1	01/14/21 08:37	01/14/21 20:59	1,7470A	MI

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 01/12/21 14:03

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1454218-2 SRM Lot Number: D109-540								
Mercury, Total	96		-		60-140	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1454368-2 SRM Lot Number: D109-540								
Arsenic, Total	92		-		70-130	-		
Barium, Total	87		-		75-125	-		
Cadmium, Total	88		-		75-125	-		
Chromium, Total	86		-		70-130	-		
Lead, Total	88		-		72-128	-		
Selenium, Total	93		-		68-132	-		
Silver, Total	94		-		68-131	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1454865-2								
Arsenic, TCLP	109		-		75-125	-		20
Barium, TCLP	99		-		75-125	-		20
Cadmium, TCLP	106		-		75-125	-		20
Chromium, TCLP	100		-		75-125	-		20
Lead, TCLP	101		-		75-125	-		20
Selenium, TCLP	107		-		75-125	-		20
Silver, TCLP	99		-		75-125	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1454866-2					
Mercury, TCLP	105	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454218-3 QC Sample: L2101608-01 Client ID: MS Sample												
Mercury, Total	ND	0.137	0.160	117	-	-	-	-	80-120	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454368-3 QC Sample: L2101608-01 Client ID: MS Sample												
Arsenic, Total	2.08	10.1	11.7	96	-	-	-	-	75-125	-	-	20
Barium, Total	26.6	168	176	89	-	-	-	-	75-125	-	-	20
Cadmium, Total	ND	4.28	3.95	92	-	-	-	-	75-125	-	-	20
Chromium, Total	9.61	16.8	25.1	92	-	-	-	-	75-125	-	-	20
Lead, Total	29.6	42.8	65.2	83	-	-	-	-	75-125	-	-	20
Selenium, Total	ND	10.1	9.10	90	-	-	-	-	75-125	-	-	20
Silver, Total	ND	25.2	21.8	86	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454865-3 QC Sample: L2101485-01 Client ID: WC-2												
Arsenic, TCLP	ND	1.2	1.30	108	-	-	-	-	75-125	-	-	20
Barium, TCLP	ND	20	19.9	100	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	ND	0.51	0.534	105	-	-	-	-	75-125	-	-	20
Chromium, TCLP	ND	2	1.99	100	-	-	-	-	75-125	-	-	20
Lead, TCLP	ND	5.1	5.11	100	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.30	108	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.495	99	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454866-3 QC Sample: L2101485-01 Client ID: WC-2												
Mercury, TCLP	ND	0.025	0.0240	96	-	-	-	-	80-120	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454218-4 QC Sample: L2101608-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454368-4 QC Sample: L2101608-01 Client ID: DUP Sample						
Arsenic, Total	2.08	2.13	mg/kg	2		20
Barium, Total	26.6	25.7	mg/kg	3		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	9.61	10.4	mg/kg	8		20
Lead, Total	29.6	27.5	mg/kg	7		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454865-4 QC Sample: L2101485-01 Client ID: WC-2						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	ND	ND	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454866-4 QC Sample: L2101485-01 Client ID: WC-2						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: TEXTRON**Project Number:** 60646242**Lab Number:** L2101485**Report Date:** 01/15/21**SAMPLE RESULTS**

Lab ID: L2101485-01

Client ID: WC-2

Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00

Date Received: 01/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Test Material Information

Source of Material: Unknown

Description of Material: Non-Metallic - Damp Soil

Particle Size: Medium

Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/14/21 02:58	1,1030	AW



Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

SAMPLE RESULTS

Lab ID: L2101485-01

Client ID: WC-2

Sample Location: PROVIDENCE, RI

Date Collected: 01/12/21 09:00

Date Received: 01/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	01/12/21 21:01	121,2540G	SB



Lab Duplicate Analysis

Batch Quality Control

Project Name: TEXTRON

Project Number: 60646242

Lab Number: L2101485

Report Date: 01/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1454271-1 QC Sample: L2101485-01 Client ID: WC-2						
Solids, Total	89.9	89.9	%	0		20

Project Name: TEXTRON
Project Number: 60646242

Serial_No:01152114:10
Lab Number: L2101485
Report Date: 01/15/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2101485-01A	Vial MeOH preserved	A	NA		4.3	Y	Absent		8260HLG(14)
L2101485-01B	Vial NaHSO4 preserved	A	NA		4.3	Y	Absent		8260HLG(14)
L2101485-01C	Vial NaHSO4 preserved	A	NA		4.3	Y	Absent		8260HLG(14)
L2101485-01D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		TS(7)
L2101485-01E	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2101485-01F	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2101485-01G	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2101485-01H	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2101485-01I	Glass 250ml/8oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2101485-01J	Glass 250ml/8oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2101485-01K	Glass 250ml/8oz unpreserved	A	NA		4.3	Y	Absent		8270TCL(14),IGNIT-1030(14),PCB-8082(14),TPH-DRO-D(14)
L2101485-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2101485-01X9	Tumble Vessel	A	NA		4.3	Y	Absent		-

*Values in parentheses indicate holding time in days



Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

Footnotes

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: TEXTRON
Project Number: 60646242

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Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: TEXTRON
Project Number: 60646242

Lab Number: L2101485
Report Date: 01/15/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 1/12/21

ALPHA Job #: L210 1485

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

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

Project Information

Project Name: Textron
Project Location: Providence, RI
Project #: 60646242
Project Manager: Rory Henderson
ALPHA Quote #:

Report Information - Data Deliverables

ADEx EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: AECOM
Address: 250 Apollo Dr.
Chelmsford, MA
Phone:
Email: Rory.Henderson@AECOM.com
Bryan.McDonnell@AECOM.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 3 Day TAT

Regulatory Requirements & Project Information Requirements

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

Additional Project Information:

ANALYSIS		SAMPLE INFO		TOTAL # BOTTLES
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Field	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input checked="" type="checkbox"/> RCRA8 <input type="checkbox"/> PPI3	<input type="checkbox"/> Lab to do	Preservation	
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	<input type="checkbox"/> Lab to do		
PCB: <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint			
<u>IGN. TABLET</u> <u>TAP RCRA 8 Metals</u>		Sample Comments		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS											TOTAL # BOTTLES					
		Date	Time			VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input checked="" type="checkbox"/> RCRA8 <input type="checkbox"/> PPI3	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB: <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	Sample Comments								
01485-01	WC-2	1/12/21	0900	Soil	DK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	11

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

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₅
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type	V	G	G	G	G	G	G
Preservative	F	A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	1/12/21/1220	<u>[Signature]</u>	1/12/21/1220
<u>[Signature]</u>	1/12/21/1810	<u>[Signature]</u>	1/12/21/186

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

Attachment E: Bills of Lading

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340094
Date: 1/7/2021 10:00 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 2
Miles:
Tons: 29.77

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 63,420 lb Scale 1 Out 9:57 AM
Tare: 36,140 lb Scale 1 In 9:30 AM
Net: 27,280 lb
13.64 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$ _____
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	13.64 tn					

1st

Site Address: 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020
WORK ORDER NO. ~~RI 2006121946-007~~

DOCUMENT NO. 0436651

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 280233
 EPA ID # MAD039322250 TRANS. 1 PHONE (781)792-5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015		
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street		
CITY Loudon	STATE NH	ZIP 03307	CITY Providence	STATE RI	ZIP 02903
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
001	CM		AWON DOT REGULATED MATERIAL	20	Y
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS A.DSCH2123100ESM					
EMERGENCY PHONE #: (800)483-3718 GENERATOR: Textron ESMI P.O.# W211356218					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Agent for SHIPPER PRINT <u>Jacky Tomasso</u>	SIGN <u>JT</u>	DATE 1-7-21
TRANSPORTER 1 PRINT <u>Jacky Tomasso</u>	SIGN <u>JT</u>	DATE 1-7-21
TRANSPORTER 2 PRINT _____	SIGN _____	DATE _____
RECEIVED BY PRINT <u>Steve Anello</u>	SIGN <u>Steve Anello</u>	DATE 1/7/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340111
Date: 1/7/2021 3:51 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 2
Miles:
Tons: 29.77

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 67,900 lb Scale 1 Out 3:51 PM
Tare: 35,640 lb Scale 1 In 3:29 PM
Net: 32,260 lb
16.13 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$ _____
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.13 tn					

Site Address: 333 Adelaide Avenue
Providence, RI 02905

2nd

SC PPW 8/1/2020

WORK ORDER # 0006121946-007

DOCUMENT NO. 0436652

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # CHRT 25711

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simason		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 87 International Drive			ADDRESS 40 Westminster Street					
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
001	CM		ABSORBENT REGULATED MATERIAL			20	Y	
			B.					
			C.	<i>Supposed</i>				
			D.	16.13 ton				
			E.	1/7/21				
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O. # W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Agent for Textron SHIPPER <i>Jeely Tomasso</i>	PRINT <i>Jeely Tomasso</i>	SIGN <i>[Signature]</i>	DATE 7-7-21
TRANSPORTER 1 <i>Jeely Tomasso</i>	PRINT <i>Jeely Tomasso</i>	SIGN <i>[Signature]</i>	DATE 7-7-21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY <i>[Signature]</i>	PRINT	SIGN <i>[Signature]</i>	DATE 7/7/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340124
Date: 1/8/2021 9:56 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 3
Miles:
Tons: 42.53

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 63,280 lb Scale 1 Out 9:55 AM
Tare: 37,760 lb Scale 1 In 9:37 AM
Net: 25,520 lb
12.76 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	12.76 tn					

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER # ~~2006121946-007~~

DOCUMENT NO. 0436653

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 291513
 EPA ID # MAD039322250 TRANS. 1 PHONE (781)792-5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron ATTN: Greg Simason		
FACILITY EPA ID # NH 5986485852			SHIPPER EPA ID # RID001195015		
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street		
CITY Loudon		STATE NH	ZIP 03307	CITY Providence	
				STATE RI	ZIP 02903
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
001	CM		AROH DOT REGULATED MATERIAL	20	Y
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800)483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Agent for <i>Textron</i> SHIPPER <i>Joey Tomasso</i>	SIGN <i>[Signature]</i>	DATE <i>7-8-21</i>
TRANSPORTER 1 <i>Joey Tomasso</i>	SIGN <i>[Signature]</i>	DATE <i>7-8-21</i>
TRANSPORTER 2	SIGN	DATE
RECEIVED BY <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE <i>7/8/21</i>

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340141
Date: 1/8/2021 3:22 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 4
Miles:
Tons: 59.85

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 71,020 lb Scale 1 Out 3:21 PM
Tare: 36,380 lb Scale 1 In 3:01 PM
Net: 34,640 lb
17.32 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	17.32	tn				

Site Address: 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER # 006121946-007

DOCUMENT NO. 0436654

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # CHRT 2675

EPA ID # MAD039322250 TRANS. 1 PHONE (791) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simason		
FACILITY EPA ID # NH 5986485852			SHIPPER EPA ID # RI D001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
001	CM		ABON DOT REGULATED MATERIAL			20	Y	
			B.					
			C.	Shuffled				
			D.	17.32 Tons				
			E.	1/8/21				
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Agent for Textron SHIPPER <u>Joely Tomasso</u>	SIGN <u>[Signature]</u>	DATE <u>1-8-21</u>
TRANSPORTER 1 <u>Joely Tomasso</u>	SIGN <u>[Signature]</u>	DATE <u>1-8-21</u>
TRANSPORTER 2 _____	SIGN _____	DATE _____
RECEIVED BY <u>[Signature]</u>	SIGN <u>[Signature]</u>	DATE <u>1/2/2021</u>

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340156
Date: 1/11/2021 10:10 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 5
Miles:
Tons: 81.74

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 80,000 lb Scale 1 Out 10:10 AM
Tare: 36,220 lb Scale 1 In 9:55 AM
Net: 43,780 lb
21.89 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	21.89 tn					

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO 006121946-007

DOCUMENT NO. 0436655

STRAIGHT BILL OF LADING

CHET 24528

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393 RD

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simson		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY London		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS				TOTAL QUANTITY	UNIT WT/VOL
001	CM		AMON DOT REGULATED MATERIAL				20	Y
			B.					
			C.					
			D.					
			E.					
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT ^{ON BEHALF OF GENERATOR} <i>Victor Delgado</i>	SIGN <i>[Signature]</i>	DATE 01/11/2021
TRANSPORTER 1	PRINT <i>Victor Delgado</i>	SIGN <i>[Signature]</i>	DATE 01/11/2021
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE 1/11/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340158
Date: 1/11/2021 11:13 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 6
Miles:
Tons: 100.24

Truck: CH4397 Clean Harbors #4397
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 72,640 lb Scale 1 Out 11:13 AM
Tare: 35,640 lb Scale 1 In 11:00 AM
Net: 37,000 lb
18.50 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	18.5 tn					

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO. ~~2006121846-007~~

DOCUMENT NO. 0436657

STRAIGHT BILL OF LADING

CHET 25539

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4397

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron ATTN: Greg Simpson		
FACILITY EPA ID # NH 5986485852			SHIPPER EPA ID # RID001195015		
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street		
CITY Loudon		STATE NH	ZIP 03307	CITY Providence	
				STATE RI	ZIP 02903
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1	cm	N	ABON DOT REGULATED MATERIAL	20	yd
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

on behalf of Textron

SHIPPER	PRINT <i>Michael Cudigan</i>	SIGN <i>[Signature]</i>	DATE 1/11/21
TRANSPORTER 1	PRINT <i>Michael Cudigan</i>	SIGN <i>[Signature]</i>	DATE 1/11/21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE 1/11/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340165
Date: 1/11/2021 3:42 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 7
Miles:
Tons: 117.68

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 70,420 lb Scale 1 Out 3:42 PM
Tare: 35,540 lb Scale 1 In 3:25 PM
Net: 34,880 lb
17.44 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	17.44	tn				

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO 2006121946-007

DOCUMENT NO. 0436656

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 280314 RFR
 EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simonsen		
FACILITY EPA ID # NH 5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
			ABON DOT REGULATED MATERIAL					
			B.					
			C.					
			D.					
			E.					
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESM ESMI P.O.# W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT ON BEHALF OF GENERATOR <i>Vicor Delgado</i>	SIGN <i>Vicor Delgado</i>	DATE 01/11/21
TRANSPORTER 1	PRINT <i>Vicor Delgado</i>	SIGN <i>Vicor Delgado</i>	DATE 01/11/21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE 01/11/21

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340179
Date: 1/12/2021 9:12 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 8
Miles:
Tons: 133.75

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 67,940 lb Scale 1 Out 9:11 AM
Tare: 35,800 lb Scale 1 In 8:54 AM
Net: 32,140 lb
16.07 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.07 tn					

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER INQ006121946-007

DOCUMENT NO. 0436658

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc VEHICLE ID # 4393
 EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simson		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS				TOTAL QUANTITY	UNIT WT/VOL
01	CM		NON DOT REGULATED MATERIAL				19	T
			B.					
			C. <i>Soil/Attch</i>					
			D. <i>16.07 tons</i>					
			E. <i>11/2/21</i>					
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218 CAN # 279689								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT IN BLENK FOR GENERATOR <i>Victor Delgado</i>	SIGN <i>[Signature]</i>	DATE 01/12/21
TRANSPORTER 1	PRINT <i>Victor Delgado</i>	SIGN <i>[Signature]</i>	DATE 01/12/21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE 1/12/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340196
Date: 1/12/2021 3:00 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 9
Miles:
Tons: 153.83

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 76,040 lb Scale 1 Out 2:57 PM
Tare: 35,880 lb Scale 1 In 2:41 PM
Net: 40,160 lb
20.08 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	20.08	tn				

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER # 006121946-007

DOCUMENT NO. 0436659

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393
 EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron ATTN: Greg Simason		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015		
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street		
CITY Loudon		STATE NH	ZIP 03307	CITY Providence	
		STATE RI	ZIP 02903		
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
01	CM		ANON DOT REGULATED MATERIAL	18	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218 CAN # 280638					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Victor Delgado	SIGN 	DATE 01/12/2021
TRANSPORTER 1	PRINT Victor Delgado	SIGN 	DATE 01/12/2021
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT 	SIGN 	DATE 1/12/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340451
Date: 1/21/2021 10:23 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 10
Miles:
Tons: 168.54

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 68,120 lb Scale 1 Out 10:22 AM
Tare: 38,700 lb Scale 1 In 10:02 AM
Net: 29,420 lb
14.71 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	14.71	tn				

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO 006121946-007

DOCUMENT NO. 0436660

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393

EPA ID # MAD039322250 TRANS. 1 PHONE (781)792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simson		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
Ø1	CM		AMON DOT REGULATED MATERIAL			17	✓	
			B.					
			C.					
			D.					
			E.					
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218 CHRT 26705								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT IN BEHALF OF GENERATOR <u>Victor Delgado</u>	SIGN <u>[Signature]</u>	DATE <u>01/21/21</u>
TRANSPORTER 1	PRINT <u>Victor Delgado</u>	SIGN <u>[Signature]</u>	DATE <u>01/21/21</u>
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <u>[Signature]</u>	SIGN <u>[Signature]</u>	DATE <u>01/21/21</u>

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340478
Date: 1/22/2021 9:44 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 11
Miles:
Tons: 184.65

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 67,840 lb Scale 1 Out 9:44 AM
Tare: 35,620 lb Scale 1 In 9:25 AM
Net: 32,220 lb
16.11 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.11 tn					

Site Address: 303 Adelaide Avenue
Providence, RI 02905

Can*

TR 01002

DC FFW 8/1/2020

WORK ORDER NO. 000021844002

DOCUMENT NO. 0436661 STRAIGHT BILL OF LADING

TRANSPORTER 1 Clark-Hobson Environmental Services, Inc. VEHICLE ID # 4395
 EPA ID # RIAD020222200 TRANS. 1 PHONE (202) 753-6000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of RI			SHIPPER KTM Great Sites Tucson		
FACILITY EPA ID # RI0000000000			SHIPPER EPA ID # RI0001100015		
ADDRESS 67 International Drive			ADDRESS 65 Westminster Street		
CITY Providence	STATE RI	ZIP 02907	CITY Providence	STATE RI	ZIP 02902
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
2	CM		ADH NOT REGULATED WASTE	16	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS: (SEE/UNCLY PHONE # (800) 469-3715) GENERATOR: Tucson R.D.000421231-00004					

ESM's Adhubs
16.11 tons
11/22/21

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT <i>John DeLoach</i>	SIGN <i>[Signature]</i>	DATE <i>11/22/21</i>
TRANSPORTER 1	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE <i>11/22/21</i>
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	<i>ESM's Adhubs</i>	<i>[Signature]</i>	<i>11/22/21</i>

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340484
Date: 1/22/2021 10:16 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 12
Miles:
Tons: 199.35

Truck: CH4397 Clean Harbors #4397
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 65,580 lb Scale 1 Out 10:16 AM
Tare: 36,180 lb Scale 1 In 9:58 AM
Net: 29,400 lb
14.70 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	14.7 tn					

Site Address: 233 Adelaide Avenue
Providence, RI 02905

Can # 280233

SC PPW 4/1/2020
WORK ORDER # 000123340-007

DOCUMENT NO. 0435563 STRAIGHT BILL OF LADING
 TRANSPORTER 1: Clean Harbor Environmental Services, Inc. VEHICLE ID # 4397
 EPA ID # MA0024322350 TRANS. 1 PHONE (866) 792-6900
 TRANSPORTER 2: VEHICLE ID #
 EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY Environmental Soil Management Inc of RI				SHIPPER AYTR Great Services			
FACILITY EPA ID # RI0000000000				SHIPPER EPA ID # RI0000000000			
ADDRESS 67 International Drive				ADDRESS 40 Westminster Street			
CITY Providence		STATE RI		CITY Providence		STATE RI	
ZIP 02907		ZIP 02905					
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT	WT/VOL	
1	GA		ASPH DOT REGULATED MATERIAL	18	yd		
			B.				
			C.				
			D.				
			E.				
			F.				
			G.				
			H.				
SPECIAL HANDLING INSTRUCTIONS: EMERGENCY PHONE # 1800-453-3715 GENERATOR: Tashon ADSCN2122100ESM ESM P.O.# W211384258							

*ESM Attached
14.70 tons
1/22/21*

SHIPPER CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

on behalf of Tashon

SHIPPER	PRINT <i>Michael Carignan</i>	SIGN <i>[Signature]</i>	DATE <i>1/22/21</i>
TRANSPORTER 1	PRINT <i>Michael Carignan</i>	SIGN <i>[Signature]</i>	DATE <i>1/22/21</i>
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	<i>ESM Attached</i>	<i>[Signature]</i>	<i>1/22/21</i>

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340535
Date: 1/25/2021 10:33 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 13
Miles:
Tons: 217.27

Truck: CH4397 Clean Harbors #4397
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 72,000 lb Scale 1 Out 10:33 AM
Tare: 36,160 lb Scale 1 In 10:18 AM
Net: 35,840 lb
17.92 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	17.92 tn					

CHRT 25711

333 Exchange Avenue
Providence, RI 02905

SI PPN 6/1/2025
WORK ORDER #9000221044-007

DOCUMENT NO. 0436664 STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4397

EPA ID # MAD039-202200 TRANS. 1 PHONE (782) 792-0000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of RI				SHIPPER KTR-Clear Systems Teston	
FACILITY EPA ID # N H S B S 6 4 9 5 8 5 2				SHIPPER EPA ID # N I D S 9 1 1 9 8 0 1 5	
ADDRESS 67 International Drive				ADDRESS 65 Westwater Street	
CITY Easton	STATE RI	ZIP 02837	CITY Providence	STATE RI	ZIP 02902
CONTAINERS NO. & SCS	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT./VOL.
1	CR	N	AKHS DOT REGULATED HAZARDOUS	18	yd
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

ESM Attached
 17.92 TONS
 1/25/2021

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE # 1-800-469-3715 GENERATOR: Teston
 A.050H21.23100E34 ESM P.O.#W21126210

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

on Behalf of Teston

SHIPPER	PRINT <i>Michael Conroy</i>	SIGN <i>Michael Conroy</i>	DATE <i>1/25/21</i>
TRANSPORTER 1	PRINT <i>Michael Conroy</i>	SIGN <i>Michael Conroy</i>	DATE <i>1/25/21</i>
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	<i>ESM Attached</i>	<i>Joe Toledo</i>	<i>1/25/21</i>

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340536
Date: 1/25/2021 11:04 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 14
Miles:
Tons: 235.47

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 72,440 lb Scale 1 Out 11:04 AM
Tare: 36,040 lb Scale 1 In 10:18 AM
Net: 36,400 lb
18.20 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	18.2 tn					

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO 006121946-007

DOCUMENT NO. 0436662

STRAIGHT BILL OF LADING

Cart 280637

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH				SHIPPER Textron				ATTN: Greg Simason				
FACILITY EPA ID # NH 5986485852				SHIPPER EPA ID # RID 001195015								
ADDRESS 67 International Drive				ADDRESS 40 Westminster Street								
CITY Loudon		STATE NH		ZIP 03307		CITY Providence		STATE RI		ZIP 02903		
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS					TOTAL QUANTITY	UNIT WT/VOL			
01	CM		NON DOT REGULATED MATERIAL						T			
			B.									
			C.	<i>See label</i>								
			D.	<i>18.20 TON</i>								
			E.	<i>1/25/21</i>								
			F.									
			G.									
			H.									
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218												

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT <i>IN BEHALF OF GENERATOR</i> <i>Victoria Delgado</i>	SIGN <i>[Signature]</i>	DATE 8/25/21
TRANSPORTER 1	PRINT <i>Victoria Delgado</i>	SIGN <i>[Signature]</i>	DATE 8/25/21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE 1/25/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340549
Date: 1/26/2021 8:09 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Order No: 13400
Textron
333 Adelaide Ave.

Loads: 15
Miles:
Tons: 251.76

Cranston RI, 02905

Providence RI

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND

Gross: 70,300 lb Scale 1 Out 8:09 AM
Tare: 37,720 lb Scale 1 In 7:56 AM
Net: 32,580 lb
16.29 tn

Weigh Master: ANGELA
Angela Holub

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.29	tn				

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO. ~~RI 2006121946-007~~

DOCUMENT NO. 0436665

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393

EPA ID # MA D 0 3 9 3 2 2 2 5 0 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH				SHIPPER Textron ATTN: Greg Simson		
FACILITY EPA ID # NH 5986485852				SHIPPER EPA ID # RID001195015		
ADDRESS 67 International Drive				ADDRESS 40 Westminster Street		
CITY London		STATE NH	ZIP 03307	CITY Providence		STATE RI ZIP 02903
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL	
01	CM		ANON DOT REGULATED MATERIAL	18	T	
			B.			
			C.			
			D.			
			E.			
			F.			
			G.			
			H.			
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218 RFR CAN # : 291513						

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT IN BEHALF OF GENERATOR <i>Vicente Delgado</i>	SIGN <i>[Signature]</i>	DATE 01/25/21
TRANSPORTER 1	PRINT <i>Vicente Delgado</i>	SIGN <i>[Signature]</i>	DATE 01/25/21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT <i>[Signature]</i>	SIGN <i>[Signature]</i>	DATE 1/26/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340566
Date: 1/26/2021 2:13 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 16
Miles:
Tons: 267.37

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 69,180 lb Scale 1 Out 2:13 PM
Tare: 37,960 lb Scale 1 In 2:01 PM
Net: 31,220 lb
15.61 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	15.61 tn					

DOCUMENT NO. 0436666

STRAIGHT BILL OF LADING

VEHICLE ID # 4293

TRANSPORTER 1 Clean Harbors Environmental Services, Inc

TRANS. 1 PHONE (781) 742-6666

EPA ID # MAD66633266

VEHICLE ID #

TRANSPORTER 2

TRANS. 2 PHONE

EPA ID #

SHIPPER ATTK Drive Simons

DESIGNATED FACILITY Environmental Soil Management Inc of NH

SHIPPER EPA ID #

FACILITY EPA ID # NH598848882

ADDRESS

ADDRESS 67 International Drive

CITY Providence

CITY London STATE NH ZIP 03307

STATE RI ZIP 02903

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
01	CM		NON DOT REGULATED MATERIAL	18	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

ESU's Attk O
15.61 tons
11/20/21

SPECIAL HANDLING INSTRUCTIONS (EMERGENCY PHONE # 800-423-2718 GENERATOR: Teledon
ADDRESS: 1231002M RFR CANT# 2915R

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT <i>Gene DeCarlo</i>	SIGN <i>[Signature]</i>	DATE
TRANSPORTER 1	PRINT <i>Gene DeCarlo</i>	SIGN <i>[Signature]</i>	DATE <i>01/20/21</i>
TRANSPORTER 2	PRINT	SIGN <i>[Signature]</i>	DATE <i>01/20/21</i>
RECEIVED BY	PRINT <i>ESU's Attk O</i>	SIGN <i>[Signature]</i>	DATE <i>11/25/21</i>

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340577
Date: 1/27/2021 7:44 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 17
Miles:
Tons: 282.86

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 67,240 lb Scale 1 Out 7:44 AM
Tare: 36,260 lb Scale 1 In 7:32 AM
Net: 30,980 lb
15.49 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	15.49 tn					

CAN # 8 CHRT 24528

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020
WORK ORDER NO. RI 2008121946-007

DOCUMENT NO. 0436667

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393
EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
TRANSPORTER 2 _____ VEHICLE ID # _____
EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron ATTN: Greg Simson		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015		
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street		
CITY Loudon		STATE NH	ZIP 03307	CITY Providence	
STATE RI		ZIP 02903			
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
01	CM		ARON DOT REGULATED MATERIAL	18	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINTON BEHALF OF GENERATOR Victor Delgado	SIGN		DATE	01/27/21
TRANSPORTER 1	PRINT Victor Delgado	SIGN		DATE	01/27/21
TRANSPORTER 2	PRINT	SIGN		DATE	
RECEIVED BY		SIGN		DATE	01/27/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340607
Date: 1/27/2021 1:43 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 18
Miles:
Tons: 298.87

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 67,560 lb Scale 1 Out 1:42 PM
Tare: 35,540 lb Scale 1 In 1:29 PM
Net: 32,020 lb
16.01 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.01 tn					

Site Address: 323 Adelaide Avenue
Providence, RI 02905

SC PFB 8/1/2020
WORK ORDER NO. 200621946-067

DOCUMENT NO. 0436668 STRAIGHT BILL OF LADING

TRANSPORTER 1: Clean Harbor Environmental Services, Inc. VEHICLE ID # 4393
EPA ID # NA003932288 TRANS. 1 PHONE (86) 7925000
TRANSPORTER 2: VEHICLE ID #
EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY: Environmental Soil Management Inc of RI
FACILITY EPA ID # RI558645882
ADDRESS: 67 International Drive
CITY: London STATE: RI ZIP: 02307
SHIPPER: ATR Great Options
CITY: Providence STATE: RI ZIP: 02903

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
01	CM		ASH BUT RECLAIMED MATERIAL	17	T
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

EMH added 16.01 tons 11/27/21

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-2718 GENERATOR: Tebron
A.D.SCH2123100296 EMRI P.O.# W211236210
EPA CAN# 7279687

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT: <i>[Signature]</i>	SIGN: <i>[Signature]</i>	DATE: <i>01/27/21</i>
TRANSPORTER 1	PRINT: <i>[Signature]</i>	SIGN: <i>[Signature]</i>	DATE: <i>2/10/21</i>
TRANSPORTER 2	PRINT:	SIGN:	DATE:
RECEIVED BY	PRINT: <i>[Signature]</i>	SIGN: <i>[Signature]</i>	DATE: <i>11/27/21</i>

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340638
Date: 1/28/2021 9:34 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 19
Miles:
Tons: 315.07

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 68,360 lb Scale 1 Out 9:34 AM
Tare: 35,960 lb Scale 1 In 9:16 AM
Net: 32,400 lb
16.20 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.2	tn				

Site Address : 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO. ~~RI 2006121946-007~~

DOCUMENT NO. 0436669

STRAIGHT BILL OF LADING *CM 24823*

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393
 EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY <u>Environmental Soil Management Inc of NH</u>			SHIPPER <u>Textron</u> ATTN: <u>Greg Simson</u>		
FACILITY EPA ID # <u>NH5986485852</u>			SHIPPER EPA ID # <u>RID001195015</u>		
ADDRESS <u>67 International Drive</u>			ADDRESS <u>40 Westminster Street</u>		
CITY <u>Loudon</u>		STATE <u>NH</u>	ZIP <u>03307</u>	CITY <u>Providence</u>	
		STATE <u>RI</u>	ZIP <u>02903</u>		
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
<u>001</u>	<u>CM</u>		<u>AMON DOT REGULATED MATERIAL</u>	<u>20</u>	<u>Y</u>
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS <u>A.DSCH2123100ESMI</u> EMERGENCY PHONE #: <u>(800) 483-3718</u> GENERATOR: <u>Textron</u> ESMI P.O.# <u>W211356218</u>					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	<i>Agent for PRINT</i> <u>Textron</u>	SIGN	DATE
TRANSPORTER 1	<i>PRINT</i> <u>Joely Tomasso</u>	SIGN	<u>1-28-21</u>
TRANSPORTER 2	<i>PRINT</i> <u>Joely Tomasso</u>	SIGN	<u>1-28-21</u>
RECEIVED BY	<i>PRINT</i> <u>Joely Tomasso</u>	SIGN	<u>1/28/21</u>

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340646
Date: 1/28/2021 11:10 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.

Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 20
Miles:
Tons: 331.19

Truck: CH4344 Clean Harbors #4344
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 68,060 lb Scale 1 Out 11:10 AM
Tare: 35,820 lb Scale 1 In 10:47 AM
Net: 32,240 lb
16.12 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	16.12 tn					

Site Address: 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO. ~~RI 2006121946-007~~

DOCUMENT NO. 0436671

STRAIGHT BILL OF LADING

TR01007

TRANSPORTER 1 Clean Harbors Environmental Services, Inc.

VEHICLE ID # 4344

EPA ID # MAD099322250

TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____

VEHICLE ID # _____

EPA ID # _____

TRANS. 2 PHONE _____

DESIGNATED FACILITY <u>Environmental Soil Management Inc of NH</u>			SHIPPER <u>Textron</u> <u>ATTN: Greg Simson</u>		
FACILITY EPA ID # <u>NH5986485852</u>			SHIPPER EPA ID # <u>RID001195015</u>		
ADDRESS <u>67 International Drive</u>			ADDRESS <u>40 Westminster Street</u>		
CITY <u>Loudon</u>		STATE <u>NH</u>	ZIP <u>03307</u>	CITY <u>Providence</u>	
		STATE <u>RI</u>	ZIP <u>02903</u>		
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
<u>Ø1</u>	<u>CM</u>		<u>AWON DOT REGULATED MATERIAL</u>	<u>25</u>	<u>Y</u>
			<u>B.</u>		
			<u>C. <u>ESMI / Atchub</u></u>		
			<u>D. <u>16.16 tons</u></u>		
			<u>E. <u>1/28/21</u></u>		
			<u>F.</u>		
			<u>G.</u>		
			<u>H.</u>		
SPECIAL HANDLING INSTRUCTIONS <u>EMERGENCY PHONE #: (800) 483-3718</u> GENERATOR: <u>Textron</u> <u>A.DSCH2123100ESMI</u> <u>ESMI P.O.# W211356218</u>					

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT <u>on behalf of the generator</u> <u>Francisco BMD</u>	SIGN <u>F - BMD</u>	DATE <u>1/28/21</u>
TRANSPORTER 1	PRINT <u>Francisco BMD</u>	SIGN <u>F - BMD</u>	DATE <u>1/28/21</u>
TRANSPORTER 2	PRINT _____	SIGN _____	DATE _____
RECEIVED BY	PRINT <u>[Signature]</u>	SIGN <u>[Signature]</u>	DATE <u>01/28/21</u>

1

ESMI of N.H.
67 International Drive
Loudon NH, 03307

Ticket No: 340655
Date: 1/28/2021 3:07 PM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 21
Miles:
Tons: 344.26

Truck: CH4393 Clean Harbors #4393
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 62,020 lb Scale 1 Out 3:07 PM
Tare: 35,880 lb Scale 1 In 2:50 PM
Net: 26,140 lb
13.07 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	13.07 tn					

Site Address: 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO 006121946-007

DOCUMENT NO. 0436670

STRAIGHT BILL OF LADING

RFR- 280638

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4393

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simson		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
001	CM		NON DOT REGULATED MATERIAL			200	Y	
			B.					
			C.	Eisen Hohl				
			D.	13.07 tons				
			E.	1/28/21				
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Agent for Textron Jody Tomasso	SIGN <i>Jody Tomasso</i>	DATE 7-28-21
TRANSPORTER 1	PRINT Jody Tomasso	SIGN <i>Jody Tomasso</i>	DATE 7-28-21
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT Eisen Hohl	SIGN <i>Eisen Hohl</i>	DATE 01/28/21

1

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340677
Date: 1/29/2021 10:06 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 22
Miles:
Tons: 364.68

Truck: CH4344 Clean Harbors #4344
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 76,320 lb Scale 1 Out 10:06 AM
Tare: 35,480 lb Scale 1 In 9:31 AM
Net: 40,840 lb
20.42 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	20.42 tn					

Site Address: 333 Adelaide Avenue
Providence, RI 02905

SC PPW 8/1/2020

WORK ORDER NO. RI 2006121946-007

DOCUMENT NO. 0436673

STRAIGHT BILL OF LADING

CHET 27476

TRANSPORTER 1 Clean Harbors Environmental Services, Inc.

VEHICLE ID #

4344

EPA ID # MAD039322250

TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2

VEHICLE ID #

EPA ID #

TRANS. 2 PHONE

DESIGNATED FACILITY Environmental Soil Management Inc of NH				SHIPPER Textron ATTN: Greg Simason			
FACILITY EPA ID # NH5986485852				SHIPPER EPA ID # RID001195015			
ADDRESS 67 International Drive				ADDRESS 40 Westminster Street			
CITY Loudon		STATE NH	ZIP 03307	CITY Providence		STATE RI	
CITY		STATE	ZIP	CITY		STATE	
Loudon		NH	03307	Providence		RI	
CITY		STATE	ZIP	CITY		STATE	
Loudon		NH	03307	Providence		RI	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL
01	CM		ANON DOT REGULATED MATERIAL			25	Y
			B.				
			C.				
			D.				
			E.				
			F.				
			G.				
			H.				
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron							
A.DSCH2123100ESMI ESMI P.O.# W211356218							

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT <i>Francisco Brito</i> SIGN <i>Francisco Brito</i>	DATE 1/29/21
TRANSPORTER 1	PRINT <i>Francisco Brito</i> SIGN <i>Francisco Brito</i>	DATE 1/29/21
TRANSPORTER 2	PRINT SIGN	DATE
RECEIVED BY	PRINT <i>Greg Hall</i> SIGN <i>Greg Hall</i>	DATE 1/29/21

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340684
Date: 1/29/2021 10:56 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 23
Miles:
Tons: 382.56

Truck: CH4375 Clean Harbors #4375
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 72,160 lb Scale 1 Out 10:56 AM
Tare: 36,400 lb Scale 1 In 10:36 AM
Net: 35,760 lb
17.88 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	17.88 tn					

Site Address : 333 Adelaide Avenue
Providence, RI 02905

CAN# 280314

SC PPW 8/1/2020

WORK ORDER # 2006121946-007

DOCUMENT NO. 0436674

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 4375

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simonsen		
FACILITY EPA ID # NH 5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY London		STATE NH	ZIP 03307		CITY Providence		STATE RI	ZIP 02903
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
1 25 Cm			ANON DOT REGULATED MATERIAL			20	Y	
			B.					
			C. <i>SMI Hold</i>					
			D. <i>17-88 TMS</i>					
			E. <i>1/29/21</i>					
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.D5CH2123100ESMI ESMI P.O.# W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

ON BEHALF OF

SHIPPER	<i>E CAMPBELL</i> PRINT	SIGN <i>[Signature]</i>	DATE 01-29-21
TRANSPORTER 1	<i>E CAMPBELL</i> PRINT	SIGN <i>[Signature]</i>	DATE 01-29-21
TRANSPORTER 2		SIGN	DATE
RECEIVED BY	<i>SMI Hold</i> PRINT	SIGN <i>[Signature]</i>	DATE 1/29/21

4

ESMI of N.H.

67 International Drive
Loudon NH, 03307

Ticket No: 340683
Date: 1/29/2021 11:00 AM
Phone: 6037830228
Fax: 6037830104

Customer: CHE20
Clean Harbors Env. Services
167 Mill St.
Cranston RI, 02905

Order No: 13400
Textron
333 Adelaide Ave.
Providence RI

Loads: 24
Miles:
Tons: 399.89

Truck: CH4397 Clean Harbors #4397
Location: RI RHODE ISLAND
Weigh Master: ANGELA
Angela Holub

Gross: 70,200 lb Scale 1 Out 11:00 AM
Tare: 35,540 lb Scale 1 In 10:30 AM
Net: 34,660 lb
17.33 tn

Remarks: Thank You For Your Business

Material \$
Delivery \$
Misc \$
Tax \$
Total \$

Signature:

MATERIAL	QTY	UNIT-\$	DELIVERY \$	MISC \$	TAX \$	TOTAL \$
UF01	17.33 tn					

CHRT 25539

Site Address: 333 Adelaide Avenue
Providence, RI 02906

SC PPW 8/1/2020

WORK ORDER NO. ~~RI 2006121946-007~~

DOCUMENT NO. 0436675

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc.

VEHICLE ID # 4397

EPA ID # MAD039322250

TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2

VEHICLE ID #

EPA ID #

TRANS. 2 PHONE

DESIGNATED FACILITY Environmental Soil Management Inc of NH			SHIPPER Textron			ATTN: Greg Simson		
FACILITY EPA ID # NH5986485852			SHIPPER EPA ID # RID001195015					
ADDRESS 67 International Drive			ADDRESS 40 Westminster Street					
CITY London		STATE NH	ZIP 03307	CITY Providence		STATE RI	ZIP 02903	
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL	
/	CM		A. NON DOT REGULATED MATERIAL			18	Y	
			B.					
			C. <i>See Attached</i>					
			D. <i>17.33 tons</i>					
			E. <i>11/29/21</i>					
			F.					
			G.					
			H.					
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Textron A.DSCH2123100ESMI ESMI P.O.# W211356218								

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	<i>Michael Cadogan</i>	PRINT	SIGN	<i>[Signature]</i>	DATE	<i>1/29/21</i>
TRANSPORTER 1	<i>Michael Cadogan</i>	PRINT	SIGN	<i>[Signature]</i>	DATE	<i>1/29/21</i>
TRANSPORTER 2		PRINT	SIGN		DATE	
RECEIVED BY	<i>See Attached</i>	PRINT	SIGN	<i>[Signature]</i>	DATE	<i>1/29/21</i>

4

Attachment F: Clean Material Certification and Soil Analytical



CERTIFICATE OF ANALYSIS

Ryan Gadoury
Strategic Environmental Services
362 Putnam Hill Road
Sutton, MA 01590

RE: AECOM - Providence (20-0332)
ESS Laboratory Work Order Number: 20L0100

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:06 pm, Dec 15, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Pesticides



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

SAMPLE RECEIPT

The following samples were received on December 02, 2020 for the analyses specified on the enclosed Chain of Custody Record.

The cooler temperature was not within the acceptance criteria of $\leq 6^{\circ}\text{C}$.

Revision 1 December 15, 2020: This report has been revised to include VOC and to add Antimony, Beryllium, Copper, Manganese, Nickel, Thallium, Vanadium, and Zinc per the client's request.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20L0100-01	MSS Gravel	Soil	6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, MA-VPH-2.1



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

DL01441-BSD1 Relative percent difference for duplicate is outside of criteria (D+).
1,4-Dioxane (24% @ 20%)

8270D Semi-Volatile Organic Compounds

D0L0029-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (78% @ 80-120%), 4,6-Dinitro-2-Methylphenol (98% @ 80-120%), Benzoic Acid (73% @ 80-120%)

D0L0029-CCV1 Continuing Calibration %Diff/Drift is below control limit (CD-).
2,4-Dinitrophenol (22% @ 20%), 4-Chloroaniline (21% @ 20%), Aniline (38% @ 20%), Benzoic Acid (27% @ 20%), Benzyl Alcohol (36% @ 20%), Hexachlorocyclopentadiene (43% @ 20%)

D0L0029-CCV1 Initial Calibration Verification recovery is below lower control limit (ICV-).
Aniline

D0L0082-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (82% @ 80-120%), 4,6-Dinitro-2-Methylphenol (84% @ 80-120%), Benzoic Acid (72% @ 80-120%)

D0L0082-CCV1 Continuing Calibration %Diff/Drift is below control limit (CD-).
Aniline (31% @ 20%), Benzoic Acid (28% @ 20%), Benzyl Alcohol (22% @ 20%), Hexachlorocyclopentadiene (43% @ 20%), Pentachlorophenol (23% @ 20%)

D0L0082-CCV1 Initial Calibration Verification recovery is below lower control limit (ICV-).
Aniline

DL00214-BS1 Blank Spike recovery is below lower control limit (B-).
4-Chloroaniline (39% @ 40-140%), Aniline (28% @ 40-140%), Benzyl Alcohol (36% @ 40-140%), Hexachlorocyclopentadiene (35% @ 40-140%)

DL00214-BSD1 Blank Spike recovery is below lower control limit (B-).
4-Chloroaniline (37% @ 40-140%), Aniline (31% @ 40-140%), Benzyl Alcohol (39% @ 40-140%), Hexachlorocyclopentadiene (37% @ 40-140%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (5.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Arsenic	ND (2.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Barium	26.6 (2.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Beryllium	0.18 (0.11)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Cadmium	ND (0.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Chromium	2.38 (1.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Copper	ND (2.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Lead	7.67 (5.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Manganese	367 (1.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Mercury	ND (0.032)		7471B		1	MKS	12/03/20 12:16	0.66	40	DL00255
Nickel	ND (2.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Selenium	ND (5.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Silver	ND (0.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Thallium	ND (5.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Vanadium	6.19 (1.00)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254
Zinc	75.1 (2.50)		6010C		1	KJK	12/03/20 14:56	2.15	100	DL00254



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,1,1-Trichloroethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,1,2,2-Tetrachloroethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,1,2-Trichloroethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,1-Dichloroethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,1-Dichloroethene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,1-Dichloropropene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2,3-Trichlorobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2,3-Trichloropropane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2,4-Trichlorobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2,4-Trimethylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2-Dibromo-3-Chloropropane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2-Dibromoethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2-Dichlorobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2-Dichloroethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,2-Dichloropropane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,3,5-Trimethylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,3-Dichlorobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,3-Dichloropropane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,4-Dichlorobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1,4-Dioxane	ND (0.0896)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
1-Chlorohexane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
2,2-Dichloropropane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
2-Butanone	ND (0.0448)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
2-Chlorotoluene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
2-Hexanone	ND (0.0448)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
4-Chlorotoluene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
4-Isopropyltoluene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
4-Methyl-2-Pentanone	ND (0.0448)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Acetone	ND (0.0448)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Benzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Bromobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Bromodichloromethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Bromoform	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Bromomethane	ND (0.0090)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Carbon Disulfide	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Carbon Tetrachloride	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Chlorobenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Chloroethane	ND (0.0090)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Chloroform	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Chloromethane	ND (0.0090)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
cis-1,2-Dichloroethene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
cis-1,3-Dichloropropene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Dibromochloromethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Dibromomethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Dichlorodifluoromethane	ND (0.0090)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Diethyl Ether	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Di-isopropyl ether	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Ethyl tertiary-butyl ether	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Ethylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Hexachlorobutadiene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Isopropylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Methyl tert-Butyl Ether	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Methylene Chloride	ND (0.0224)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Naphthalene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
n-Butylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
n-Propylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
sec-Butylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Styrene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
tert-Butylbenzene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Tertiary-amyl methyl ether	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Tetrachloroethene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Tetrahydrofuran	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
trans-1,2-Dichloroethene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
trans-1,3-Dichloropropene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Trichloroethene	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Trichlorofluoromethane	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Vinyl Acetate	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Vinyl Chloride	ND (0.0090)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Xylene O	ND (0.0045)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Xylene P,M	ND (0.0090)		8260B Low		1	12/14/20 12:34	D0L0284	DL01441
Xylenes (Total)	ND (0.00896)		8260B Low		1	12/14/20 12:34		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>111 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>98 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 19.3
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 12/2/20 17:20

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
4,4'-DDE	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
4,4'-DDT	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Aldrin	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
alpha-BHC	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
alpha-Chlordane	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
beta-BHC	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Chlordane (Total)	ND (0.0334)		8081B		1	12/04/20 4:20	D0L0062	DL00212
delta-BHC	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Dieldrin	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Endosulfan I	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Endosulfan II	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Endosulfan Sulfate	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Endrin	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Endrin Aldehyde	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Endrin Ketone	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	12/04/20 4:20	D0L0062	DL00212
gamma-Chlordane	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Heptachlor	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Heptachlor Epoxide	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Hexachlorobenzene	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Methoxychlor	ND (0.0028)		8081B		1	12/04/20 4:20	D0L0062	DL00212
Toxaphene	ND (0.139)		8081B		1	12/04/20 4:20	D0L0062	DL00212

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>148 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>137 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>144 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>150 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MJV
Prepared: 12/2/20 17:15

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1221	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1232	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1242	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1248	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1254	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1260	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1262	ND (0.05)		8082A		1	12/03/20 17:22		DL00110
Aroclor 1268	ND (0.05)		8082A		1	12/03/20 17:22		DL00110

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	73 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	88 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	64 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: AMF
Prepared: 12/2/20 17:20

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.0)		8100M		1	12/03/20 15:48	D0L0051	DL00215
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>98 %</i>		<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 12/2/20 17:17

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
1,2,4-Trichlorobenzene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
1,2-Dichlorobenzene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
1,3-Dichlorobenzene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
1,4-Dichlorobenzene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,3,4,6-Tetrachlorophenol	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,4,5-Trichlorophenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,4,6-Trichlorophenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,4-Dichlorophenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,4-Dimethylphenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,4-Dinitrophenol	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,4-Dinitrotoluene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2,6-Dinitrotoluene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2-Chloronaphthalene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2-Chlorophenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2-Methylnaphthalene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2-Methylphenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2-Nitroaniline	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
2-Nitrophenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
3,3'-Dichlorobenzidine	ND (0.717)		8270D		1	12/04/20 21:27	D0L0082	DL00214
3+4-Methylphenol	ND (0.717)		8270D		1	12/04/20 21:27	D0L0082	DL00214
3-Nitroaniline	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4,6-Dinitro-2-Methylphenol	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4-Bromophenyl-phenylether	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4-Chloro-3-Methylphenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4-Chloroaniline	ND (0.717)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4-Chloro-phenyl-phenyl ether	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4-Nitroaniline	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
4-Nitrophenol	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Acenaphthene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Acenaphthylene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Acetophenone	ND (0.717)		8270D		1	12/04/20 21:27	D0L0082	DL00214



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 12/2/20 17:17

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.717)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Anthracene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Azobenzene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzo(a)anthracene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzo(a)pyrene	ND (0.179)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzo(b)fluoranthene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzo(g,h,i)perylene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzo(k)fluoranthene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzoic Acid	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Benzyl Alcohol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
bis(2-Chloroethoxy)methane	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
bis(2-Chloroethyl)ether	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
bis(2-chloroisopropyl)Ether	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
bis(2-Ethylhexyl)phthalate	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Butylbenzylphthalate	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Carbazole	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Chrysene	ND (0.179)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Dibenzo(a,h)Anthracene	ND (0.179)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Dibenzofuran	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Diethylphthalate	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Dimethylphthalate	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Di-n-butylphthalate	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Di-n-octylphthalate	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Fluoranthene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Fluorene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Hexachlorobenzene	ND (0.179)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Hexachlorobutadiene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Hexachlorocyclopentadiene	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Hexachloroethane	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Indeno(1,2,3-cd)Pyrene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Isophorone	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Naphthalene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence
Client Sample ID: MSS Gravel
Date Sampled: 12/01/20 00:00
Percent Solids: 93
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 20L0100
ESS Laboratory Sample ID: 20L0100-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 12/2/20 17:17

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
N-Nitrosodimethylamine	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
N-Nitroso-Di-n-Propylamine	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
N-nitrosodiphenylamine	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Pentachlorophenol	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Phenanthrene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Phenol	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Pyrene	ND (0.358)		8270D		1	12/04/20 21:27	D0L0082	DL00214
Pyridine	ND (1.79)		8270D		1	12/04/20 21:27	D0L0082	DL00214

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	61 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	72 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	62 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	62 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	62 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	60 %		30-130
<i>Surrogate: Phenol-d6</i>	68 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	66 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
 Client Project ID: AECOM - Providence
 Client Sample ID: MSS Gravel
 Date Sampled: 12/01/20 00:00
 Percent Solids: 93
 Initial Volume: 11
 Final Volume: 10
 Extraction Method: 5030B
 Column Type: Restek RTX-502.2 - 3µ film thickness 0.53mm X 105m

ESS Laboratory Work Order: 20L0100
 ESS Laboratory Sample ID: 20L0100-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK
 Trap Type: Supelco K Vocab 3000 Trap

MADEP-VPH Volatile Petroleum Hydrocarbon

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C10 Aromatics	ND (10.5)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
C5-C8 Aliphatics 1,2	ND (11.0)		MA-VPH-2.1		1	12/03/20 15:16		[CALC]
C9-C12 Aliphatics 2,3	ND (21.9)		MA-VPH-2.1		1	12/03/20 15:16		[CALC]
Benzene	ND (0.21)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
Ethylbenzene	ND (0.21)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
Methyl tert-Butyl Ether	ND (0.05)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
Naphthalene	ND (0.21)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
Toluene	ND (0.21)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
Xylene O	ND (0.21)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
Xylene P,M	ND (0.42)		MA-VPH-2.1		1	12/03/20 15:16	D0L0076	DL00340
1:1 Methanol/Soil Ratio %D	10 (N/A)		MA-VPH-2.1			12/03/20 8:00		DL00340
Preservative:	MeOH - covered		MA-VPH-2.1					DL00340

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	<i>92 %</i>		<i>70-130</i>
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: Trifluorotoluene - FID</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: Trifluorotoluene - PID</i>	<i>95 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DL00254 - 3050B

Blank

Antimony	ND	5.00	mg/kg wet
Arsenic	ND	2.50	mg/kg wet
Barium	ND	2.50	mg/kg wet
Beryllium	ND	0.11	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.00	mg/kg wet
Copper	ND	2.50	mg/kg wet
Lead	ND	5.00	mg/kg wet
Manganese	ND	1.00	mg/kg wet
Nickel	ND	2.50	mg/kg wet
Selenium	ND	5.00	mg/kg wet
Silver	ND	0.50	mg/kg wet
Thallium	ND	5.00	mg/kg wet
Vanadium	ND	1.00	mg/kg wet
Zinc	ND	2.50	mg/kg wet

LCS

Antimony	36.7	16.7	mg/kg wet	42.00	87	80-120
Arsenic	38.5	8.33	mg/kg wet	43.10	89	80-120
Barium	681	8.33	mg/kg wet	597.0	114	80-120
Beryllium	122	0.37	mg/kg wet	117.0	104	80-120
Cadmium	117	1.67	mg/kg wet	118.0	99	80-120
Chromium	307	3.33	mg/kg wet	299.0	103	80-120
Copper	348	8.33	mg/kg wet	330.0	105	80-120
Lead	148	16.7	mg/kg wet	144.0	102	80-120
Manganese	1250	3.33	mg/kg wet	1065	117	80-120
Nickel	179	8.33	mg/kg wet	171.0	105	80-120
Selenium	143	16.7	mg/kg wet	154.0	93	80-120
Silver	75.1	1.67	mg/kg wet	73.50	102	80-120
Vanadium	274	3.33	mg/kg wet	259.0	106	80-120
Zinc	862	8.33	mg/kg wet	874.0	99	80-120

LCS

Thallium	94.6	16.4	mg/kg wet	97.40	97	80-120
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LCS Dup

Antimony	38.6	16.4	mg/kg wet	42.00	92	80-120	5	20
Arsenic	40.6	8.20	mg/kg wet	43.10	94	80-120	5	20
Barium	623	8.20	mg/kg wet	597.0	104	80-120	9	20
Beryllium	122	0.36	mg/kg wet	117.0	105	80-120	0.4	20
Cadmium	114	1.64	mg/kg wet	118.0	97	80-120	2	20
Chromium	303	3.28	mg/kg wet	299.0	101	80-120	1	20
Copper	343	8.20	mg/kg wet	330.0	104	80-120	1	20
Lead	147	16.4	mg/kg wet	144.0	102	80-120	0.3	20
Manganese	1060	3.28	mg/kg wet	1065	100	80-120	16	20
Nickel	176	8.20	mg/kg wet	171.0	103	80-120	2	20
Selenium	144	16.4	mg/kg wet	154.0	93	80-120	0.8	20



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DL00254 - 3050B

Silver	74.5	1.64	mg/kg wet	73.50		101	80-120	0.9	20	
Vanadium	272	3.28	mg/kg wet	259.0		105	80-120	0.9	20	
Zinc	849	8.20	mg/kg wet	874.0		97	80-120	1	20	

LCS Dup

Thallium	89.8	16.1	mg/kg wet	97.40		92	80-120	5	20	
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Batch DL00255 - 3050B

Blank

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	31.9	3.19	mg/kg wet	27.90		114	70-124			
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LCS Dup

Mercury	34.7	3.00	mg/kg wet	27.90		124	70-124	8	20	
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5035/8260B Volatile Organic Compounds / Low Level

Batch DL01441 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DL01441 - 5035

4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0050	mg/kg wet
Dibromomethane	ND	0.0050	mg/kg wet
Dichlorodifluoromethane	ND	0.0100	mg/kg wet
Diethyl Ether	ND	0.0050	mg/kg wet
Di-isopropyl ether	ND	0.0050	mg/kg wet
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet
Ethylbenzene	ND	0.0050	mg/kg wet
Hexachlorobutadiene	ND	0.0050	mg/kg wet
Isopropylbenzene	ND	0.0050	mg/kg wet
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet
Methylene Chloride	ND	0.0250	mg/kg wet
Naphthalene	ND	0.0050	mg/kg wet
n-Butylbenzene	ND	0.0050	mg/kg wet
n-Propylbenzene	ND	0.0050	mg/kg wet
sec-Butylbenzene	ND	0.0050	mg/kg wet
Styrene	ND	0.0050	mg/kg wet
tert-Butylbenzene	ND	0.0050	mg/kg wet
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet
Tetrachloroethene	ND	0.0050	mg/kg wet
Tetrahydrofuran	ND	0.0050	mg/kg wet
Toluene	ND	0.0050	mg/kg wet
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Trichloroethene	ND	0.0050	mg/kg wet
Trichlorofluoromethane	ND	0.0050	mg/kg wet
Vinyl Acetate	ND	0.0050	mg/kg wet
Vinyl Chloride	ND	0.0100	mg/kg wet
Xylene O	ND	0.0050	mg/kg wet
Xylene P,M	ND	0.0100	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DL01441 - 5035

Surrogate: 1,2-Dichloroethane-d4	0.0544		mg/kg wet	0.05000		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.0475		mg/kg wet	0.05000		95	70-130			
Surrogate: Dibromofluoromethane	0.0442		mg/kg wet	0.05000		88	70-130			
Surrogate: Toluene-d8	0.0497		mg/kg wet	0.05000		99	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
1,1,1-Trichloroethane	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
1,1,2,2-Tetrachloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
1,1,2-Trichloroethane	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethane	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloropropene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,3-Trichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,3-Trichloropropane	0.0400	0.0050	mg/kg wet	0.05000		80	70-130			
1,2,4-Trichlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,4-Trimethylbenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,2-Dibromo-3-Chloropropane	0.0388	0.0050	mg/kg wet	0.05000		78	70-130			
1,2-Dibromoethane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,2-Dichlorobenzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
1,2-Dichloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichloropropane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,3,5-Trimethylbenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
1,3-Dichloropropane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,4-Dichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,4-Dioxane	0.931	0.100	mg/kg wet	1.000		93	70-130			
1-Chlorohexane	0.0445	0.0050	mg/kg wet	0.05000		89	70-130			
2,2-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	70-130			
2-Butanone	0.234	0.0500	mg/kg wet	0.2500		94	70-130			
2-Chlorotoluene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
2-Hexanone	0.226	0.0500	mg/kg wet	0.2500		90	70-130			
4-Chlorotoluene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
4-Isopropyltoluene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
4-Methyl-2-Pentanone	0.230	0.0500	mg/kg wet	0.2500		92	70-130			
Acetone	0.234	0.0500	mg/kg wet	0.2500		94	70-130			
Benzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Bromobenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Bromochloromethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Bromodichloromethane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130			
Bromoform	0.0381	0.0050	mg/kg wet	0.05000		76	70-130			
Bromomethane	0.0585	0.0100	mg/kg wet	0.05000		117	70-130			
Carbon Disulfide	0.0425	0.0050	mg/kg wet	0.05000		85	70-130			
Carbon Tetrachloride	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
Chlorobenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DL01441 - 5035

Chloroethane	0.0510	0.0100	mg/kg wet	0.05000		102	70-130			
Chloroform	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Chloromethane	0.0435	0.0100	mg/kg wet	0.05000		87	70-130			
cis-1,2-Dichloroethene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
cis-1,3-Dichloropropene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Dibromochloromethane	0.0424	0.0050	mg/kg wet	0.05000		85	70-130			
Dibromomethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Dichlorodifluoromethane	0.0368	0.0100	mg/kg wet	0.05000		74	70-130			
Diethyl Ether	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Di-isopropyl ether	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Ethyl tertiary-butyl ether	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Ethylbenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Hexachlorobutadiene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Isopropylbenzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
Methyl tert-Butyl Ether	0.0422	0.0050	mg/kg wet	0.05000		84	70-130			
Methylene Chloride	0.0387	0.0250	mg/kg wet	0.05000		77	70-130			
Naphthalene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
n-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
n-Propylbenzene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
sec-Butylbenzene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Styrene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
tert-Butylbenzene	0.0445	0.0050	mg/kg wet	0.05000		89	70-130			
Tertiary-amyl methyl ether	0.0411	0.0050	mg/kg wet	0.05000		82	70-130			
Tetrachloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
Tetrahydrofuran	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
Toluene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
trans-1,2-Dichloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
trans-1,3-Dichloropropene	0.0422	0.0050	mg/kg wet	0.05000		84	70-130			
Trichloroethene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Trichlorofluoromethane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Vinyl Acetate	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Vinyl Chloride	0.0443	0.0100	mg/kg wet	0.05000		89	70-130			
Xylene O	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
Xylene P,M	0.0954	0.0100	mg/kg wet	0.1000		95	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0496		mg/kg wet	0.05000		99	70-130			
Surrogate: 4-Bromofluorobenzene	0.0486		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Toluene-d8	0.0485		mg/kg wet	0.05000		97	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	12	25	
1,1,1-Trichloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	16	25	
1,1,2,2-Tetrachloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	13	25	
1,1,2-Trichloroethane	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	7	25	
1,1-Dichloroethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	12	25	
1,1-Dichloroethene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130	17	25	



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
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ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DL01441 - 5035

1,1-Dichloropropene	0.0575	0.0050	mg/kg wet	0.05000		115	70-130	16	25	
1,2,3-Trichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	6	25	
1,2,3-Trichloropropane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	13	25	
1,2,4-Trichlorobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	6	25	
1,2,4-Trimethylbenzene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	13	25	
1,2-Dibromo-3-Chloropropane	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	16	25	
1,2-Dibromoethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	11	25	
1,2-Dichlorobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	9	25	
1,2-Dichloroethane	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	6	25	
1,2-Dichloropropane	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	8	25	
1,3,5-Trimethylbenzene	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	15	25	
1,3-Dichlorobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	10	25	
1,3-Dichloropropane	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	11	25	
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	10	25	
1,4-Dioxane	1.19	0.100	mg/kg wet	1.000		119	70-130	24	20	D+
1-Chlorohexane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	19	25	
2,2-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	14	25	
2-Butanone	0.266	0.0500	mg/kg wet	0.2500		107	70-130	13	25	
2-Chlorotoluene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	14	25	
2-Hexanone	0.274	0.0500	mg/kg wet	0.2500		110	70-130	19	25	
4-Chlorotoluene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	13	25	
4-Isopropyltoluene	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	15	25	
4-Methyl-2-Pentanone	0.262	0.0500	mg/kg wet	0.2500		105	70-130	13	25	
Acetone	0.230	0.0500	mg/kg wet	0.2500		92	70-130	2	25	
Benzene	0.0558	0.0050	mg/kg wet	0.05000		112	70-130	12	25	
Bromobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	11	25	
Bromochloromethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	6	25	
Bromodichloromethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	7	25	
Bromoform	0.0417	0.0050	mg/kg wet	0.05000		83	70-130	9	25	
Bromomethane	0.0652	0.0100	mg/kg wet	0.05000		130	70-130	11	25	
Carbon Disulfide	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	17	25	
Carbon Tetrachloride	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	17	25	
Chlorobenzene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	14	25	
Chloroethane	0.0592	0.0100	mg/kg wet	0.05000		118	70-130	15	25	
Chloroform	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	10	25	
Chloromethane	0.0521	0.0100	mg/kg wet	0.05000		104	70-130	18	25	
cis-1,2-Dichloroethene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	10	25	
cis-1,3-Dichloropropene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	7	25	
Dibromochloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	11	25	
Dibromomethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	6	25	
Dichlorodifluoromethane	0.0438	0.0100	mg/kg wet	0.05000		88	70-130	17	25	
Diethyl Ether	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	7	25	
Di-isopropyl ether	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	8	25	
Ethyl tertiary-butyl ether	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	6	25	
Ethylbenzene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	17	25	



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DL01441 - 5035

Hexachlorobutadiene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	13	25	
Isopropylbenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	17	25	
Methyl tert-Butyl Ether	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	7	25	
Methylene Chloride	0.0433	0.0250	mg/kg wet	0.05000		87	70-130	11	25	
Naphthalene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	8	25	
n-Butylbenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130	15	25	
n-Propylbenzene	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	16	25	
sec-Butylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	16	25	
Styrene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	12	25	
tert-Butylbenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	17	25	
Tertiary-amyl methyl ether	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	5	25	
Tetrachloroethene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	18	25	
Tetrahydrofuran	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	20	25	
Toluene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	11	25	
trans-1,2-Dichloroethene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	14	25	
trans-1,3-Dichloropropene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130	5	25	
Trichloroethene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	13	25	
Trichlorofluoromethane	0.0581	0.0050	mg/kg wet	0.05000		116	70-130	17	25	
Vinyl Acetate	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	8	25	
Vinyl Chloride	0.0543	0.0100	mg/kg wet	0.05000		109	70-130	20	25	
Xylene O	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	13	25	
Xylene P,M	0.112	0.0100	mg/kg wet	0.1000		112	70-130	16	25	
Surrogate: 1,2-Dichloroethane-d4	0.0500		mg/kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0494		mg/kg wet	0.05000		99	70-130			
Surrogate: Toluene-d8	0.0503		mg/kg wet	0.05000		101	70-130			

8081B Organochlorine Pesticides

Batch DL00212 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
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ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DL00212 - 3546

delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							
Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0117		mg/kg wet	0.01250		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0107		mg/kg wet	0.01250		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0119		mg/kg wet	0.01250		95	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0118		mg/kg wet	0.01250		94	30-150			

LCS										
4,4'-DDD	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
4,4'-DDD [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
4,4'-DDE	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
4,4'-DDE [2C]	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
4,4'-DDT	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
4,4'-DDT [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Aldrin	0.0126	0.0025	mg/kg wet	0.01250		100	40-140			
Aldrin [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
alpha-BHC	0.0122	0.0025	mg/kg wet	0.01250		97	40-140			
alpha-BHC [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			
alpha-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
alpha-Chlordane [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DL00212 - 3546

beta-BHC	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
beta-BHC [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
delta-BHC	0.0131	0.0025	mg/kg wet	0.01250		104	40-140			
delta-BHC [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Dieldrin	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
Dieldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan I	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
Endosulfan I [2C]	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
Endosulfan II	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
Endosulfan II [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
Endosulfan Sulfate	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
Endosulfan Sulfate [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Endrin	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endrin [2C]	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Endrin Aldehyde	0.0099	0.0025	mg/kg wet	0.01250		79	40-140			
Endrin Aldehyde [2C]	0.0107	0.0025	mg/kg wet	0.01250		85	40-140			
Endrin Ketone	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Endrin Ketone [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
gamma-BHC (Lindane)	0.0126	0.0015	mg/kg wet	0.01250		101	40-140			
gamma-BHC (Lindane) [2C]	0.0114	0.0015	mg/kg wet	0.01250		91	40-140			
gamma-Chlordane	0.0139	0.0025	mg/kg wet	0.01250		112	40-140			
gamma-Chlordane [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Heptachlor	0.0122	0.0025	mg/kg wet	0.01250		97	40-140			
Heptachlor [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140			
Heptachlor Epoxide	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Heptachlor Epoxide [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Hexachlorobenzene	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Hexachlorobenzene [2C]	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Methoxychlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Methoxychlor [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			

Surrogate: Decachlorobiphenyl	0.0110		mg/kg wet	0.01250		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0112		mg/kg wet	0.01250		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0120		mg/kg wet	0.01250		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0120		mg/kg wet	0.01250		96	30-150			

LCS Dup

4,4'-DDD	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	6	30	
4,4'-DDD [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	6	30	
4,4'-DDE	0.0143	0.0025	mg/kg wet	0.01250		114	40-140	2	30	
4,4'-DDE [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140	5	30	
4,4'-DDT	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	10	30	
4,4'-DDT [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	6	30	
Aldrin	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	3	30	
Aldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	3	30	
alpha-BHC	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
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ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DL00212 - 3546

alpha-BHC [2C]	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	3	30	
alpha-Chlordane	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
alpha-Chlordane [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	4	30	
beta-BHC	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	2	30	
beta-BHC [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	2	30	
delta-BHC	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	1	30	
delta-BHC [2C]	0.0113	0.0025	mg/kg wet	0.01250		90	40-140	3	30	
Dieldrin	0.0138	0.0025	mg/kg wet	0.01250		111	40-140	2	30	
Dieldrin [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	5	30	
Endosulfan I	0.0122	0.0025	mg/kg wet	0.01250		97	40-140	3	30	
Endosulfan I [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	5	30	
Endosulfan II	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	10	30	
Endosulfan II [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	6	30	
Endosulfan Sulfate	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	10	30	
Endosulfan Sulfate [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	6	30	
Endrin	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	4	30	
Endrin [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	5	30	
Endrin Aldehyde	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	11	30	
Endrin Aldehyde [2C]	0.0113	0.0025	mg/kg wet	0.01250		90	40-140	6	30	
Endrin Ketone	0.0131	0.0025	mg/kg wet	0.01250		104	40-140	13	30	
Endrin Ketone [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	6	30	
gamma-BHC (Lindane)	0.0130	0.0015	mg/kg wet	0.01250		104	40-140	3	30	
gamma-BHC (Lindane) [2C]	0.0117	0.0015	mg/kg wet	0.01250		94	40-140	3	30	
gamma-Chlordane	0.0143	0.0025	mg/kg wet	0.01250		115	40-140	3	30	
gamma-Chlordane [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	4	30	
Heptachlor	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Heptachlor [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	3	30	
Heptachlor Epoxide	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	2	30	
Heptachlor Epoxide [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
Hexachlorobenzene	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	2	30	
Hexachlorobenzene [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	2	30	
Methoxychlor	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	14	30	
Methoxychlor [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	7	30	

Surrogate: Decachlorobiphenyl	0.0121		mg/kg wet	0.01250		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0115		mg/kg wet	0.01250		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0119		mg/kg wet	0.01250		95	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0119		mg/kg wet	0.01250		95	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch DL00110 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DL00110 - 3540C

Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0183		mg/kg wet	0.02500		73	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			

LCS

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		81	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			

Surrogate: Decachlorobiphenyl	0.0213		mg/kg wet	0.02500		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0226		mg/kg wet	0.02500		90	30-150			

LCS Dup

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		80	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	2	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		84	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	2	30	

Surrogate: Decachlorobiphenyl	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0244		mg/kg wet	0.02500		98	30-150			
Surrogate: Tetrachloro-m-xylene	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0214		mg/kg wet	0.02500		86	30-150			

8100M Total Petroleum Hydrocarbons

Batch DL00215 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
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CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
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ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DL00215 - 3546

Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacotane (C30)	ND	0.2	mg/kg wet							

<i>Surrogate: O-Terphenyl</i>	4.96		mg/kg wet	5.000		99	40-140			
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LCS

Decane (C10)	1.7	0.2	mg/kg wet	2.500		66	40-140			
Docosane (C22)	2.2	0.2	mg/kg wet	2.500		86	40-140			
Dodecane (C12)	1.8	0.2	mg/kg wet	2.500		71	40-140			
Eicosane (C20)	2.2	0.2	mg/kg wet	2.500		87	40-140			
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		85	40-140			
Hexadecane (C16)	2.1	0.2	mg/kg wet	2.500		82	40-140			
Nonadecane (C19)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		62	30-140			
Octacosane (C28)	2.2	0.2	mg/kg wet	2.500		86	40-140			
Octadecane (C18)	2.1	0.2	mg/kg wet	2.500		84	40-140			
Tetracosane (C24)	2.1	0.2	mg/kg wet	2.500		86	40-140			
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Total Petroleum Hydrocarbons	30.4	37.5	mg/kg wet	35.00		87	40-140			
Triacotane (C30)	2.1	0.2	mg/kg wet	2.500		84	40-140			

<i>Surrogate: O-Terphenyl</i>	4.63		mg/kg wet	5.000		93	40-140			
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LCS Dup

Decane (C10)	1.7	0.2	mg/kg wet	2.500		68	40-140	2	25	
Docosane (C22)	2.1	0.2	mg/kg wet	2.500		86	40-140	0.6	25	
Dodecane (C12)	2.0	0.2	mg/kg wet	2.500		80	40-140	12	25	
Eicosane (C20)	2.1	0.2	mg/kg wet	2.500		86	40-140	0.7	25	
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		85	40-140	0.7	25	
Hexadecane (C16)	2.1	0.2	mg/kg wet	2.500		82	40-140	0.5	25	
Nonadecane (C19)	2.3	0.2	mg/kg wet	2.500		90	40-140	0.7	25	
Nonane (C9)	1.5	0.2	mg/kg wet	2.500		60	30-140	4	25	
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		86	40-140	0.7	25	
Octadecane (C18)	2.1	0.2	mg/kg wet	2.500		83	40-140	0.6	25	
Tetracosane (C24)	2.1	0.2	mg/kg wet	2.500		85	40-140	0.7	25	
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		80	40-140	0.2	25	



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
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ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DL00215 - 3546

Total Petroleum Hydrocarbons	30.1	37.5	mg/kg wet	35.00		86	40-140	1	25	
Triacotane (C30)	2.1	0.2	mg/kg wet	2.500		84	40-140	0.7	25	
Surrogate: O-Terphenyl	4.55		mg/kg wet	5.000		91	40-140			

8270D Semi-Volatile Organic Compounds

Batch DL00214 - 3546

Blank

1,1-Biphenyl	ND	0.333	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet
1,2-Dichlorobenzene	ND	0.333	mg/kg wet
1,3-Dichlorobenzene	ND	0.333	mg/kg wet
1,4-Dichlorobenzene	ND	0.333	mg/kg wet
2,3,4,6-Tetrachlorophenol	ND	1.67	mg/kg wet
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet
2,4-Dichlorophenol	ND	0.333	mg/kg wet
2,4-Dimethylphenol	ND	0.333	mg/kg wet
2,4-Dinitrophenol	ND	1.67	mg/kg wet
2,4-Dinitrotoluene	ND	0.333	mg/kg wet
2,6-Dinitrotoluene	ND	0.333	mg/kg wet
2-Chloronaphthalene	ND	0.333	mg/kg wet
2-Chlorophenol	ND	0.333	mg/kg wet
2-Methylnaphthalene	ND	0.333	mg/kg wet
2-Methylphenol	ND	0.333	mg/kg wet
2-Nitroaniline	ND	0.333	mg/kg wet
2-Nitrophenol	ND	0.333	mg/kg wet
3,3'-Dichlorobenzidine	ND	0.667	mg/kg wet
3+4-Methylphenol	ND	0.667	mg/kg wet
3-Nitroaniline	ND	0.333	mg/kg wet
4,6-Dinitro-2-Methylphenol	ND	1.67	mg/kg wet
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet
4-Chloro-3-Methylphenol	ND	0.333	mg/kg wet
4-Chloroaniline	ND	0.667	mg/kg wet
4-Chloro-phenyl-phenyl ether	ND	0.333	mg/kg wet
4-Nitroaniline	ND	0.333	mg/kg wet
4-Nitrophenol	ND	1.67	mg/kg wet
Acenaphthene	ND	0.333	mg/kg wet
Acenaphthylene	ND	0.333	mg/kg wet
Acetophenone	ND	0.667	mg/kg wet
Aniline	ND	0.667	mg/kg wet
Anthracene	ND	0.333	mg/kg wet
Azobenzene	ND	0.333	mg/kg wet
Benzo(a)anthracene	ND	0.333	mg/kg wet
Benzo(a)pyrene	ND	0.167	mg/kg wet



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DL00214 - 3546

Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Benzoic Acid	ND	1.67	mg/kg wet							
Benzyl Alcohol	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Carbazole	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.167	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.333	mg/kg wet							
N-nitrosodiphenylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Pyridine	ND	1.67	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.16		mg/kg wet	3.333		65	30-130			
Surrogate: 2,4,6-Tribromophenol	3.90		mg/kg wet	5.000		78	30-130			
Surrogate: 2-Chlorophenol-d4	3.17		mg/kg wet	5.000		63	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/kg wet	3.333		60	30-130			
Surrogate: 2-Fluorophenol	3.14		mg/kg wet	5.000		63	30-130			
Surrogate: Nitrobenzene-d5	2.00		mg/kg wet	3.333		60	30-130			
Surrogate: Phenol-d6	3.30		mg/kg wet	5.000		66	30-130			
Surrogate: p-Terphenyl-d14	2.66		mg/kg wet	3.333		80	30-130			

LCS



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DL00214 - 3546

1,1-Biphenyl	2.05	0.333	mg/kg wet	3.333		61	40-140			
1,2,4-Trichlorobenzene	1.65	0.333	mg/kg wet	3.333		49	40-140			
1,2-Dichlorobenzene	1.64	0.333	mg/kg wet	3.333		49	40-140			
1,3-Dichlorobenzene	1.69	0.333	mg/kg wet	3.333		51	40-140			
1,4-Dichlorobenzene	1.56	0.333	mg/kg wet	3.333		47	40-140			
2,3,4,6-Tetrachlorophenol	2.11	1.67	mg/kg wet	3.333		63	30-130			
2,4,5-Trichlorophenol	2.28	0.333	mg/kg wet	3.333		68	30-130			
2,4,6-Trichlorophenol	2.12	0.333	mg/kg wet	3.333		64	30-130			
2,4-Dichlorophenol	1.92	0.333	mg/kg wet	3.333		57	30-130			
2,4-Dimethylphenol	1.87	0.333	mg/kg wet	3.333		56	30-130			
2,4-Dinitrophenol	2.27	1.67	mg/kg wet	3.333		68	30-130			
2,4-Dinitrotoluene	2.52	0.333	mg/kg wet	3.333		76	40-140			
2,6-Dinitrotoluene	2.27	0.333	mg/kg wet	3.333		68	40-140			
2-Chloronaphthalene	1.81	0.333	mg/kg wet	3.333		54	40-140			
2-Chlorophenol	1.76	0.333	mg/kg wet	3.333		53	30-130			
2-Methylnaphthalene	1.86	0.333	mg/kg wet	3.333		56	40-140			
2-Methylphenol	1.91	0.333	mg/kg wet	3.333		57	30-130			
2-Nitroaniline	2.32	0.333	mg/kg wet	3.333		70	40-140			
2-Nitrophenol	1.80	0.333	mg/kg wet	3.333		54	30-130			
3,3'-Dichlorobenzidine	2.06	0.667	mg/kg wet	3.333		62	40-140			
3+4-Methylphenol	3.45	0.667	mg/kg wet	6.667		52	30-130			
3-Nitroaniline	2.15	0.333	mg/kg wet	3.333		65	40-140			
4,6-Dinitro-2-Methylphenol	2.64	1.67	mg/kg wet	3.333		79	30-130			
4-Bromophenyl-phenylether	2.25	0.333	mg/kg wet	3.333		67	40-140			
4-Chloro-3-Methylphenol	2.30	0.333	mg/kg wet	3.333		69	30-130			
4-Chloroaniline	1.29	0.667	mg/kg wet	3.333		39	40-140			B-
4-Chloro-phenyl-phenyl ether	2.17	0.333	mg/kg wet	3.333		65	40-140			
4-Nitroaniline	2.25	0.333	mg/kg wet	3.333		68	40-140			
4-Nitrophenol	2.48	1.67	mg/kg wet	3.333		74	30-130			
Acenaphthene	1.97	0.333	mg/kg wet	3.333		59	40-140			
Acenaphthylene	1.78	0.333	mg/kg wet	3.333		53	40-140			
Acetophenone	1.79	0.667	mg/kg wet	3.333		54	40-140			
Aniline	0.931	0.667	mg/kg wet	3.333		28	40-140			B-
Anthracene	2.30	0.333	mg/kg wet	3.333		69	40-140			
Azobenzene	2.21	0.333	mg/kg wet	3.333		66	40-140			
Benzo(a)anthracene	2.37	0.333	mg/kg wet	3.333		71	40-140			
Benzo(a)pyrene	2.43	0.167	mg/kg wet	3.333		73	40-140			
Benzo(b)fluoranthene	2.38	0.333	mg/kg wet	3.333		72	40-140			
Benzo(g,h,i)perylene	2.37	0.333	mg/kg wet	3.333		71	40-140			
Benzo(k)fluoranthene	2.24	0.333	mg/kg wet	3.333		67	40-140			
Benzoic Acid	2.09	1.67	mg/kg wet	3.333		63	40-140			
Benzyl Alcohol	1.19	0.333	mg/kg wet	3.333		36	40-140			B-
bis(2-Chloroethoxy)methane	1.89	0.333	mg/kg wet	3.333		57	40-140			
bis(2-Chloroethyl)ether	1.82	0.333	mg/kg wet	3.333		55	40-140			
bis(2-chloroisopropyl)Ether	1.66	0.333	mg/kg wet	3.333		50	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DL00214 - 3546

bis(2-Ethylhexyl)phthalate	2.49	0.333	mg/kg wet	3.333		75	40-140			
Butylbenzylphthalate	2.52	0.333	mg/kg wet	3.333		76	40-140			
Carbazole	2.39	0.333	mg/kg wet	3.333		72	40-140			
Chrysene	2.33	0.167	mg/kg wet	3.333		70	40-140			
Dibenzo(a,h)Anthracene	2.43	0.167	mg/kg wet	3.333		73	40-140			
Dibenzofuran	2.04	0.333	mg/kg wet	3.333		61	40-140			
Diethylphthalate	2.32	0.333	mg/kg wet	3.333		70	40-140			
Dimethylphthalate	2.28	0.333	mg/kg wet	3.333		68	40-140			
Di-n-butylphthalate	2.45	0.333	mg/kg wet	3.333		74	40-140			
Di-n-octylphthalate	2.48	0.333	mg/kg wet	3.333		74	40-140			
Fluoranthene	2.37	0.333	mg/kg wet	3.333		71	40-140			
Fluorene	2.23	0.333	mg/kg wet	3.333		67	40-140			
Hexachlorobenzene	2.14	0.167	mg/kg wet	3.333		64	40-140			
Hexachlorobutadiene	1.49	0.333	mg/kg wet	3.333		45	40-140			
Hexachlorocyclopentadiene	1.17	1.67	mg/kg wet	3.333		35	40-140			B-
Hexachloroethane	1.64	0.333	mg/kg wet	3.333		49	40-140			
Indeno(1,2,3-cd)Pyrene	2.40	0.333	mg/kg wet	3.333		72	40-140			
Isophorone	1.60	0.333	mg/kg wet	3.333		48	40-140			
Naphthalene	1.82	0.333	mg/kg wet	3.333		55	40-140			
Nitrobenzene	1.77	0.333	mg/kg wet	3.333		53	40-140			
N-Nitrosodimethylamine	1.66	0.333	mg/kg wet	3.333		50	40-140			
N-Nitroso-Di-n-Propylamine	2.03	0.333	mg/kg wet	3.333		61	40-140			
N-nitrosodiphenylamine	2.19	0.333	mg/kg wet	3.333		66	40-140			
Pentachlorophenol	2.40	1.67	mg/kg wet	3.333		72	30-130			
Phenanthrene	2.28	0.333	mg/kg wet	3.333		68	40-140			
Phenol	1.67	0.333	mg/kg wet	3.333		50	30-130			
Pyrene	2.33	0.333	mg/kg wet	3.333		70	40-140			
Pyridine	1.46	1.67	mg/kg wet	3.333		44	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	1.81		mg/kg wet	3.333		54	30-130			
Surrogate: 2,4,6-Tribromophenol	4.20		mg/kg wet	5.000		84	30-130			
Surrogate: 2-Chlorophenol-d4	3.03		mg/kg wet	5.000		61	30-130			
Surrogate: 2-Fluorobiphenyl	2.14		mg/kg wet	3.333		64	30-130			
Surrogate: 2-Fluorophenol	2.89		mg/kg wet	5.000		58	30-130			
Surrogate: Nitrobenzene-d5	1.98		mg/kg wet	3.333		59	30-130			
Surrogate: Phenol-d6	3.39		mg/kg wet	5.000		68	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/kg wet	3.333		78	30-130			

LCS Dup

1,1-Biphenyl	2.14	0.333	mg/kg wet	3.333		64	40-140	4	30	
1,2,4-Trichlorobenzene	1.69	0.333	mg/kg wet	3.333		51	40-140	3	30	
1,2-Dichlorobenzene	1.76	0.333	mg/kg wet	3.333		53	40-140	7	30	
1,3-Dichlorobenzene	1.77	0.333	mg/kg wet	3.333		53	40-140	5	30	
1,4-Dichlorobenzene	1.69	0.333	mg/kg wet	3.333		51	40-140	8	30	
2,3,4,6-Tetrachlorophenol	2.12	1.67	mg/kg wet	3.333		64	30-130	0.6	30	
2,4,5-Trichlorophenol	2.25	0.333	mg/kg wet	3.333		67	30-130	1	30	
2,4,6-Trichlorophenol	2.21	0.333	mg/kg wet	3.333		66	30-130	4	30	



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DL00214 - 3546

2,4-Dichlorophenol	2.00	0.333	mg/kg wet	3.333		60	30-130	4	30	
2,4-Dimethylphenol	1.93	0.333	mg/kg wet	3.333		58	30-130	3	30	
2,4-Dinitrophenol	2.48	1.67	mg/kg wet	3.333		74	30-130	9	30	
2,4-Dinitrotoluene	2.51	0.333	mg/kg wet	3.333		75	40-140	0.4	30	
2,6-Dinitrotoluene	2.31	0.333	mg/kg wet	3.333		69	40-140	2	30	
2-Chloronaphthalene	1.86	0.333	mg/kg wet	3.333		56	40-140	3	30	
2-Chlorophenol	1.79	0.333	mg/kg wet	3.333		54	30-130	2	30	
2-Methylnaphthalene	1.87	0.333	mg/kg wet	3.333		56	40-140	0.3	30	
2-Methylphenol	1.98	0.333	mg/kg wet	3.333		59	30-130	4	30	
2-Nitroaniline	2.34	0.333	mg/kg wet	3.333		70	40-140	0.9	30	
2-Nitrophenol	1.88	0.333	mg/kg wet	3.333		56	30-130	4	30	
3,3'-Dichlorobenzidine	2.01	0.667	mg/kg wet	3.333		60	40-140	2	30	
3+4-Methylphenol	3.64	0.667	mg/kg wet	6.667		55	30-130	5	30	
3-Nitroaniline	2.12	0.333	mg/kg wet	3.333		64	40-140	1	30	
4,6-Dinitro-2-Methylphenol	2.75	1.67	mg/kg wet	3.333		82	30-130	4	30	
4-Bromophenyl-phenylether	2.27	0.333	mg/kg wet	3.333		68	40-140	0.9	30	
4-Chloro-3-Methylphenol	2.19	0.333	mg/kg wet	3.333		66	30-130	5	30	
4-Chloroaniline	1.24	0.667	mg/kg wet	3.333		37	40-140	4	30	B-
4-Chloro-phenyl-phenyl ether	2.14	0.333	mg/kg wet	3.333		64	40-140	1	30	
4-Nitroaniline	2.19	0.333	mg/kg wet	3.333		66	40-140	3	30	
4-Nitrophenol	2.46	1.67	mg/kg wet	3.333		74	30-130	0.5	30	
Acenaphthene	2.03	0.333	mg/kg wet	3.333		61	40-140	3	30	
Acenaphthylene	1.83	0.333	mg/kg wet	3.333		55	40-140	3	30	
Acetophenone	1.83	0.667	mg/kg wet	3.333		55	40-140	2	30	
Aniline	1.03	0.667	mg/kg wet	3.333		31	40-140	10	30	B-
Anthracene	2.35	0.333	mg/kg wet	3.333		70	40-140	2	30	
Azobenzene	2.27	0.333	mg/kg wet	3.333		68	40-140	3	30	
Benzo(a)anthracene	2.39	0.333	mg/kg wet	3.333		72	40-140	0.9	30	
Benzo(a)pyrene	2.47	0.167	mg/kg wet	3.333		74	40-140	2	30	
Benzo(b)fluoranthene	2.41	0.333	mg/kg wet	3.333		72	40-140	1	30	
Benzo(g,h,i)perylene	2.42	0.333	mg/kg wet	3.333		73	40-140	2	30	
Benzo(k)fluoranthene	2.28	0.333	mg/kg wet	3.333		68	40-140	2	30	
Benzoic Acid	2.19	1.67	mg/kg wet	3.333		66	40-140	5	30	
Benzyl Alcohol	1.29	0.333	mg/kg wet	3.333		39	40-140	8	30	B-
bis(2-Chloroethoxy)methane	1.89	0.333	mg/kg wet	3.333		57	40-140	0.4	30	
bis(2-Chloroethyl)ether	1.89	0.333	mg/kg wet	3.333		57	40-140	4	30	
bis(2-chloroisopropyl)Ether	1.76	0.333	mg/kg wet	3.333		53	40-140	6	30	
bis(2-Ethylhexyl)phthalate	2.52	0.333	mg/kg wet	3.333		76	40-140	1	30	
Butylbenzylphthalate	2.53	0.333	mg/kg wet	3.333		76	40-140	0.4	30	
Carbazole	2.38	0.333	mg/kg wet	3.333		72	40-140	0.07	30	
Chrysene	2.35	0.167	mg/kg wet	3.333		71	40-140	0.8	30	
Dibenzo(a,h)Anthracene	2.45	0.167	mg/kg wet	3.333		74	40-140	1	30	
Dibenzofuran	2.14	0.333	mg/kg wet	3.333		64	40-140	4	30	
Diethylphthalate	2.31	0.333	mg/kg wet	3.333		69	40-140	0.3	30	
Dimethylphthalate	2.30	0.333	mg/kg wet	3.333		69	40-140	0.8	30	



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DL00214 - 3546

Di-n-butylphthalate	2.45	0.333	mg/kg wet	3.333		74	40-140	0.1	30	
Di-n-octylphthalate	2.51	0.333	mg/kg wet	3.333		75	40-140	1	30	
Fluoranthene	2.30	0.333	mg/kg wet	3.333		69	40-140	3	30	
Fluorene	2.26	0.333	mg/kg wet	3.333		68	40-140	2	30	
Hexachlorobenzene	2.17	0.167	mg/kg wet	3.333		65	40-140	2	30	
Hexachlorobutadiene	1.57	0.333	mg/kg wet	3.333		47	40-140	5	30	
Hexachlorocyclopentadiene	1.23	1.67	mg/kg wet	3.333		37	40-140	5	30	B-
Hexachloroethane	1.72	0.333	mg/kg wet	3.333		52	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	2.43	0.333	mg/kg wet	3.333		73	40-140	1	30	
Isophorone	1.66	0.333	mg/kg wet	3.333		50	40-140	4	30	
Naphthalene	1.83	0.333	mg/kg wet	3.333		55	40-140	0.9	30	
Nitrobenzene	1.80	0.333	mg/kg wet	3.333		54	40-140	2	30	
N-Nitrosodimethylamine	1.91	0.333	mg/kg wet	3.333		57	40-140	14	30	
N-Nitroso-Di-n-Propylamine	2.17	0.333	mg/kg wet	3.333		65	40-140	6	30	
N-nitrosodiphenylamine	2.25	0.333	mg/kg wet	3.333		67	40-140	3	30	
Pentachlorophenol	2.47	1.67	mg/kg wet	3.333		74	30-130	3	30	
Phenanthrene	2.27	0.333	mg/kg wet	3.333		68	40-140	0.6	30	
Phenol	1.77	0.333	mg/kg wet	3.333		53	30-130	6	30	
Pyrene	2.37	0.333	mg/kg wet	3.333		71	40-140	2	30	
Pyridine	1.48	1.67	mg/kg wet	3.333		45	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	1.90		mg/kg wet	3.333		57	30-130			
Surrogate: 2,4,6-Tribromophenol	4.13		mg/kg wet	5.000		83	30-130			
Surrogate: 2-Chlorophenol-d4	3.06		mg/kg wet	5.000		61	30-130			
Surrogate: 2-Fluorobiphenyl	2.16		mg/kg wet	3.333		65	30-130			
Surrogate: 2-Fluorophenol	2.99		mg/kg wet	5.000		60	30-130			
Surrogate: Nitrobenzene-d5	1.93		mg/kg wet	3.333		58	30-130			
Surrogate: Phenol-d6	3.42		mg/kg wet	5.000		68	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/kg wet	3.333		78	30-130			

MADEP-VPH Volatile Petroleum Hydrocarbon

Batch DL00340 - 5030B

Blank										
Benzene	ND	0.20	mg/kg wet							
C5-C8 Unadjusted Aliphatics	ND	10.0	mg/kg wet							
C9-C10 Aromatics	ND	10.0	mg/kg wet							
C9-C12 Unadjusted Aliphatics	ND	10.0	mg/kg wet							
Ethylbenzene	ND	0.20	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.05	mg/kg wet							
Naphthalene	ND	0.20	mg/kg wet							
Toluene	ND	0.20	mg/kg wet							
Xylene O	ND	0.20	mg/kg wet							
Xylene P,M	ND	0.40	mg/kg wet							
Surrogate: 2,5-Dibromotoluene - FID	4.58		mg/kg wet	5.000		92	70-130			
Surrogate: 2,5-Dibromotoluene - PID	4.37		mg/kg wet	5.000		87	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-VPH Volatile Petroleum Hydrocarbon

Batch DL00340 - 5030B

Surrogate: Trifluorotoluene - FID	5.07		mg/kg wet	5.333		95	70-130			
Surrogate: Trifluorotoluene - PID	4.83		mg/kg wet	5.333		91	70-130			

LCS

Benzene	5.05	0.20	mg/kg wet	5.000		101	70-130			
C5-C8 Unadjusted Aliphatics	45.3	10.0	mg/kg wet	40.00		113	70-130			
C9-C10 Aromatics	10.4	10.0	mg/kg wet	10.00		104	70-130			
C9-C12 Unadjusted Aliphatics	25.4	10.0	mg/kg wet	30.00		85	70-130			
Ethylbenzene	4.92	0.20	mg/kg wet	5.000		98	70-130			
Methyl tert-Butyl Ether	14.7	0.05	mg/kg wet	15.00		98	70-130			
Naphthalene	10.3	0.20	mg/kg wet	10.00		103	70-130			
Toluene	14.6	0.20	mg/kg wet	15.00		97	70-130			
Xylene O	9.35	0.20	mg/kg wet	10.00		94	70-130			
Xylene P,M	19.0	0.40	mg/kg wet	20.00		95	70-130			

Surrogate: 2,5-Dibromotoluene - FID	5.44		mg/kg wet	5.000		109	70-130			
Surrogate: 2,5-Dibromotoluene - PID	5.33		mg/kg wet	5.000		107	70-130			
Surrogate: Trifluorotoluene - FID	4.84		mg/kg wet	5.333		91	70-130			
Surrogate: Trifluorotoluene - PID	4.80		mg/kg wet	5.333		90	70-130			

LCS Dup

Benzene	4.95	0.20	mg/kg wet	5.000		99	70-130	2	25	
C5-C8 Unadjusted Aliphatics	46.4	10.0	mg/kg wet	40.00		116	70-130	3	25	
C9-C10 Aromatics	10.4	10.0	mg/kg wet	10.00		104	70-130	0.1	25	
C9-C12 Unadjusted Aliphatics	26.9	10.0	mg/kg wet	30.00		90	70-130	6	25	
Ethylbenzene	4.96	0.20	mg/kg wet	5.000		99	70-130	0.8	25	
Methyl tert-Butyl Ether	14.7	0.05	mg/kg wet	15.00		98	70-130	0.01	25	
Naphthalene	10.7	0.20	mg/kg wet	10.00		107	70-130	4	25	
Toluene	14.5	0.20	mg/kg wet	15.00		97	70-130	0.5	25	
Xylene O	9.41	0.20	mg/kg wet	10.00		94	70-130	0.6	25	
Xylene P,M	19.1	0.40	mg/kg wet	20.00		95	70-130	0.5	25	

Surrogate: 2,5-Dibromotoluene - FID	5.33		mg/kg wet	5.000		107	70-130			
Surrogate: 2,5-Dibromotoluene - PID	5.12		mg/kg wet	5.000		102	70-130			
Surrogate: Trifluorotoluene - FID	4.99		mg/kg wet	5.333		94	70-130			
Surrogate: Trifluorotoluene - PID	4.64		mg/kg wet	5.333		87	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

Notes and Definitions

- Z-04 MeOH - covered
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- ICV- Initial Calibration Verification recovery is below lower control limit (ICV-).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Strategic Environmental Services
Client Project ID: AECOM - Providence

ESS Laboratory Work Order: 20L0100

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: SES - Strategic Environmental Services - TB
 Shipped/Delivered Via: _____ Client _____

ESS Project ID: 20L0100
 Date Received: 12/2/2020
 Project Due Date: 12/7/2020
 Days for Project: 3 Day

- 1. Air bill manifest present? No
 Air No.: _____ NA _____
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
 Temp: 7.9 Iced with: ice none ^{TD} 12/7
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about short holds & rushes? Yes / No / NA
- 10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: _____
 TAT: _____

- 12. Were VOAs received? Yes / No
- a. Air bubbles in aqueous VOAs? Yes / No
- b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
 b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

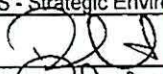

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	115212	Yes	N/A	Yes	4 oz. Jar	NP	
1	115213	Yes	N/A	Yes	4 oz. Jar	NP	
1	115214	Yes	N/A	Yes	4 oz. Jar	NP	
1	115215	Yes	N/A	Yes	4 oz. Jar	NP	
1	115216	Yes	N/A	Yes	4 oz. Jar	NP	
1	115217	Yes	N/A	Yes	4 oz. Jar	NP	
1	115218	Yes	N/A	Yes	VOA Vial	MeOH	

2nd Review

- Were all containers scanned into storage/lab? Initials JC
 Are barcode labels on correct containers? Yes / No
 Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
 Are all Hex Chrome stickers attached? Yes / No / NA
 Are all QC stickers attached? Yes / No / NA
 Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Taylor Davis Date & Time: 11:37 12/2/20
 Reviewed _____

ESS Laboratory Sample and Cooler Receipt Checklist

Client: SES - Strategic Environmental Services - TB ESS Project ID: 20L0100
By:  Date & Time: 12/2/20 11:47
Delivered By:  12/2/20 11:47

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page _____ of _____

Turn Time _____ Standard Other Rush 3 day If faster than 5 days, prior approval by laboratory is required # <u>per client</u>	Reporting Limits	ESS LAB PROJECT ID 2060100
State where samples were collected from: MA <input checked="" type="checkbox"/> RI <input type="checkbox"/> CT <input type="checkbox"/> NH <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> ME <input type="checkbox"/> Other _____	Electronic Deliverable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Format <u>PDF</u>
Is this project for any of the following: MA-MCP* Navy USACE Other _____		

Co. Name			Project #			Project Name (20 Char. or less)			Number of Containers	Type of Containers	Circle and/or Write Required Analysis																		
Strategic Environmental Services			20-0332			AECOM - Providence					8260	624	524.2	8021 MTBE/BTEX GRO	VPH	8015 EPH No Targets	608 Pesticides	608 Pesticides	PAH only	RCRA5 RCRA8 PP13 TAL23	TCLP8 MCP MCPw/Hg NBC7	VPH	RCRA 8 Metals	SVOC's + PAH's 8270	TPH via 8100	PCB's via 8082	Pesticides 8081/8082		
Contact Person Ryan Gadoury			Address 362 Putnam Hill Road																										
City Sutton, MA 01590			State			Zip																							
Telephone # 508-612-2339			Fax #			Email Address rgadoury@strategic-es.com																							
ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)																							
1	12/1/2020		X		S	MSS Gravel	ML 12/11/20			G											X	X	X	X	X	X	X		

Container Type: P-Poly Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only
 Seals Intact Yes No NA: _____ [] Pickup
 Cooler Temp: 7.9 no ice [] Technicians _____

Comments:

Relinquished by: (Signature) <i>RG</i>	Date/Time 12/2/1435	Received by: (Signature) <i>[Signature]</i>	Date/Time 12/2/20 1435	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

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CHAIN OF CUSTODY

Page _____ of _____

Turn Time _____ Standard If faster than 5 days, prior approval by laboratory is required # <u>per client</u>	Other <u>Rush 3 day</u>	Reporting Limits	ESS LAB PROJECT ID <u>2060100</u>
State where samples were collected from: MA <input checked="" type="checkbox"/> RI <input type="checkbox"/> CT <input type="checkbox"/> NH <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> ME <input type="checkbox"/> Other _____		Electronic Deliverable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Format <u>PDF</u>	
Is this project for any of the following: MA-MCP* Navy USACE Other _____			

Co. Name Strategic Environmental Services			Project # 20-0332			Project Name (20 Char. or less) AECOM - Providence			Number of Containers	Type of Containers	Circle and/or Write Required Analysis																									
Contact Person Ryan Gadoury			Address 362 Putnam Hill Road								8260	624	524.2	8015 MTBE/BTEX GRO	VPH	8100 DRO	8082 Pesticides	608 Pesticides	808 Pesticides	8270	625	PAH only	RCRA5	RCRA8	PP13	TAL23	TCLP8	MCP	MCPw/Hg	NBC7	VPH	RCRA 8 Metals	SVOC's + PAH's 8270	TPH via 8100	PCB's via 8082	Pesticides 8081/8082
City Sutton, MA 01590			State MA			Zip 01590					8260	624	524.2	8015 MTBE/BTEX GRO	VPH	8100 DRO	8082 Pesticides	608 Pesticides	808 Pesticides	8270	625	PAH only	RCRA5	RCRA8	PP13	TAL23	TCLP8	MCP	MCPw/Hg	NBC7	VPH	RCRA 8 Metals	SVOC's + PAH's 8270	TPH via 8100	PCB's via 8082	Pesticides 8081/8082
Telephone # 508-612-2339			Fax # _____			Email Address rgadoury@strategic-es.com																														
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1	12/1/2020		X		S	MSS Gravel				G																										

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Cooler Present Yes No Internal Use Only
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 Cooler Temp: 7.9 no ice [] Technicians _____

Comments:

Relinquished by: (Signature) <i>RG</i>	Date/Time <u>12/2/1435</u>	Received by: (Signature) <i>[Signature]</i>	Date/Time <u>12/2/20 1435</u>	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time



CONCRETE
(401) 453-1110

PROPOSAL -CONTRACT FOR MATERIAL AND/OR SERVICES

MATERIAL
SAND • STONE • CONCRETE

FAX: (401) 767-2070

618 Greenville Road, North Smithfield, Rhode Island 02896



SAND & STONE
(401) 232-3010

December 2, 2020

Strategic Environmental Services
362 Putnam Hill Road
Sutton, MA 01590

Attention: Mr. Ryan Gadoury, Project Manager

Re: Textron Drain Line Project at 333 Adelaide Ave., Providence RI

This letter is to certify that our sourcing quarry at Pine Hill Rd., North Smithfield, R.I. is in full compliance with the requirements of RIDEM-RDEC.

All products supplied to Strategic Environmental Services, Inc., at the above mentioned project are processed from naturally occurring, virgin raw materials at the above mentioned quarry.

They are free from contamination by any foreign or deleterious substances. They do not contain hazardous salts, debris or compounds in quantities exceeding the allowable limits of RIDEM& RDEC.

Please contact me if we can be of further assistance or there are any questions.

Respectfully submitted;

Robert Babine
Technical Director
rbabine@materialconcrete.com
401-639-4168