SITE INVESTIGATION REPORT ADDENDUM

ROBIN RUG MANUFACTURING FACILITY
125 THAMES STREET
BRISTOL, RHODE ISLAND

MAIN MILL PARCELS – Lots 10-42, 10-60, 10-61, 10-62 and 10-73
PARKING LOT PARCELS – Lots 10-32,10-41, 10-43, 10-44, 10-49, 10-50, 10-68, 10-74 and 10-76
RIDEM Site File No. SR-02-2085

Prepared For:

Brady Sullivan Properties, LLC
670 N. Commercial Street, Suite #303
Manchester, New Hampshire 03101

BY:
NOBIS GROUP®
18 CHENELL DRIVE
CONCORD, NH 03301

(603) 224-4182

Bettina E. Eames, P.G.
beames@nobis-group.com

Nobis Project No. 095560.261
August 1, 2022

August 1, 2022
File No. 095560.261

Ms. Michelle McLarney
Rhode Island Department of Environmental Management
Office of Land Revitalization & Sustainable Materials Management
Site Remediation Program
235 Promenade Street
Providence, Rhode Island 02908-5767
Submitted - Hard Copy via USPS regular mail and to RIDEM Sharepoint Page

Re: Site Investigation Report Addendum
Robin Rug Manufacturing Facility
125 Thames Street, Bristol, Rhode Island
Main Mill Parcels – Lots 10-42, 10-60, 10-61, 10-62 and 10-73
Parking Lot Parcels – Lots 10-32, 10-41, 10-43, 10-44, 10-49, 10-50, 10-68, 10-74 and 10-76
RIDEM File No. SR-02-2085

Dear Ms. McLarney :

Nobis Engineering, Inc. d/b/a Nobis Group® (Nobis), on behalf of Brady Sullivan Properties (Brady Sullivan) is submitting the enclosed Site Investigation Report (SIR) Addendum for the Robin Rug Manufacturing Facility located at 125 Thames Street in Bristol , Rhode Island ("the Site"). The Site consists of five parcels west of Thames Street (referred to as the "Main Mill Parcels") consisting of ± 2.9 acres of land and nine parcels east of Thames Street (referred to as the "parking Lot Parcels") consisting of ±0.338 acres of land (total = 14 parcels). The Site is located along Bristol Harbor just west of the downtown area and is shown on Figure 1.

BACKGROUND AND RELEASE NOTIFICATION

On May 3, 2022, Nobis, on behalf of Brady Sullivan (as Bona Fide Prospective Purchaser) submitted a Hazardous Materials Release Notification Form to the Rhode Island Department of Environmental Management (RIDEM) to report the release of oil (petroleum) and hazardous materials, including primarily polyaromatic nuclear hydrocarbons (PAHs) and metals (arsenic and lead) to soil. Concentration in soil exceeded the Rhode Island Residential direct contact criteria

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(RDEC) and/or the industrial/commercial DEC (or ICDEC). The conditions in soil were discovered during performance of an ASTM Phase I Environmental Site Assessment (Phase I ESA) and a Phase II Limited Subsurface Investigation (Phase II) at the Site in 2021 as part of due diligence pre-purchase activities. In response to the release notification, the RIDEM issued the site number SR-02-2085 to the release and a Voluntary Cleanup Letter (VCL) dated May 13, 2022 to Brady Sullivan (Bona Fide Prospective Purchaser and also the Performing Party) outlining subsequent requirements for reporting, investigation and remediation in accordance with RIDEM's Office of Land Revitalization and Sustainable Materials Management regulations under 250-RICR-140-30-1, *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (aka the Remediation Regulations).

PREVIOUS SITE INVESTIGATIONS AND REPORT SUBMITTALS

Nobis has prepared this SIR submittal to satisfy the requirements of the *Remediation Regulations Subsection 1.8 –Site Investigation Report* as part of the VCL process. As previously communicated to RIDEM, Nobis completed an ASTM Phase I Environmental Site Assessment (ESA) in April 2021 and a Phase II Site Investigation (Phase II) at the Site in August 2021 for Brady Sullivan as part of due diligence prior to purchase of the Site. Previously in July 2005, GZA GeoEnvironmental conducted a Phase I and II Site Investigation at the site for another party. Copies of reports summarizing these past investigations have been submitted electronically to RIDEM via upload to the Sharepoint Page for the site "SR-02-2085" concurrently with this submittal.

SIR ADDENDUM - CHECKLIST AND SUPPLEMENTARY INFORMATION

In Nobis's opinion, the previous 2005 GZA and 2021 Nobis Phase I and II investigations satisfy the requirements and objectives of an SIR. These reports were used for reference to demonstrate that the content requirements as listed in the *SIR Checklist* have been met. The enclosed SIR Addendum submittal includes:

- Appendix A – SIR Checklist. Completed in accordance with Section 1.8.8 of the Remediation Regulations and cross-referencing to specific sections and pages of the 2005 GZA Phase I/II report and/or 2021 Phase I or Phase II reports, including those items in the checklist requiring further discussion or explanation.

- Appendix B – Release Notification Submittal. This submittal was prepared by Nobis on behalf of Brady Sullivan and was previously submitted to RIDEM on May 3, 2022.

- Appendix C - Remedial Alternatives Evaluation. An evaluation of a minimum of two (2) remedial alternatives (as per Section 1.8.4 of the Checklist), including a recommendation and preferred alternative(s) for the Main Mill Parcels and the Parking Lot Parcels.

- Appendix D – Property Survey Plan and Redevelopment Project Master Plan. The plan entitled "Boundary and Topographic Survey Plan Bristol Yarn Mill" dated August 18, 2021 prepared by Control Point Associates (Registered Land Surveyor) depicts current conditions. Shown on the Control Point Survey plan are the current building footprint, paved areas and unpaved/landscaped areas. The second plan entitled "Master Plan Bristol Yarn Mill" dated April 13, 2021 prepared by Fuss & O'Neill depicts the proposed redevelopment plan, including changes to the current building footprint, planned demolition of the Annex Building, proposed new Riverwalk Structure, proposed new/improved paved areas and unpaved/landscaped areas.

CERTIFICATION

As required per the RIDEM Remediation Regulations and as listed under Section 1.85. of the SIR Checklist, this SIR submittal been certified by a representative of Nobis and by Brady Sullivan. Certification Statements for the SIR are provided in Appendix E.

STATUS OF PROPERTY ACQUISITION AND REDEVELOPMENT PROJECT

Additional subsurface site investigation activities are planned to be done to delineate the extent of lead in shallow subsurface soil (0 to 3.5 fbg) around TP-7 on parking lot Parcel 10-76. However, this soil delineation/investigation effort will be conducted in the future in conjunction with new park lot construction. The new parking lot upgrade will include new asphalt cap, curbing with perimeter landscaping and stormwater management features. This work will likely require soil management (off-site disposal) and thus further delineation of lead in shallow soils will be incorporated into the Remedial Action Work Plan (RAWP) and conducted at the time of new parking lot construction. Brady Sullivan is aware that prior public notice (to abutters) will be required prior to initiation of these activities. As of this writing, Brady Sullivan has not yet purchased the Site and final property acquisition is still in progress. Brady Sullivan is actively

seeking all project approvals (planning, zoning, environmental, etc.) and anticipates tentative acquisition of the property on or about December 31, 2022.

We anticipate that this submittal satisfies the requirements of the SIR and will be approved by RIDEM. If you require any further information, please feel free to contact Ms. Bettina E. Eames at 603-224-4182 or Mr. Chris Reynolds, PE of Brady Sullivan Properties at 508-728-9208.

Sincerely,

NOBIS GROUP®

Bettina E. Eames, PG
Senior Project Manager

Clarence "Tim" Andrews, PG | Associate
Director of State & Municipal Services

Attachments:
Figure 1 – Site Locus Map
Appendix A - SIR Checklist
Appendix B Release Notification Submittal
Appendix C - Remedial Alternatives Evaluation
Appendix D Property Survey Plan and Master Plan (Current and Proposed Future Conditions)
Appendix E Certification

c: File No. 095560.261 (w/attach.)

FIGURES

USGS Topographic Map
Bristol, RI-Mass
Revised 1955

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www.nobis-group.com

FIGURE 1

SITE LOCUS
ROBIN RUG MANUFACTURING FACILITY
125 THAMES STREET
BRISTOL, RI

PREPARED BY: SKP	CHECKED BY: BE
PROJECT NO. 95560.26	DATE: JULY 2022

J:\95560.00 - Brady Sullivan Portfolio\Environmental\95560.26 - Bristol RI Phase I ESA\05 Deliverable-Report\Figures\Figure 1_Site Locus.mxd 2/15/2021 13:23 spowers

APPENDIX A

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

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

Contact Name:	**Bettina Eames, PG - Nobis Group (Consultant for Brady Sullivan Properties LLC)**
Contact Address:	**18 Chenell Drive, Concord, NH 03301**
Contact Telephone:	**603-513-7328**
Site Name:	**Robin Rug Manufacturing SR-02-2085**
Site Address:	**125 Thames Street, Bristol, RI**

OFFICE USE ONLY
SITE INVESTIGATION REPORT (SIR) SITE:
PROJECT CODE:
SIR SUBMITTAL DATE:
CHECKLIST SUBMITTAL DATE:

DIRECTIONS: *The box to the left of each item listed below is for the administrative review of the SIR submission and is for **RIDEM USE ONLY**. Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references may delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.*

☐ 1.8.3(A)(1) List specific objectives of the SIR related to characterization of the Release, impacts of the Release and remedy.

See 2021 Nobis Phase I ESA Sections 1.1, 1.2, 7.0, and 8.0 and 2021 Nobis Phase II Report, Sections 1.1, 2.0, 3.0, and 5.0.

☐ 1.8.3(A)(2) Include information reported in the Notification of Release. A copy of the Release notification form should be included in the SIR. Include information relating to short-term response, if applicable.

See Appendix B of this submittal and Section 4.4 of the 2021 Nobis Phase II report.

☐ 1.8.3(A)(3) Include documentation of any past incidents or Releases.

See 2005 GZA Phase I/II Report Sections 6.20.2 and 10.00 (Site Regulatory Review) and 2021 Nobis Phase I ESA Report- Sections 6.1, 7.0 and 8.0.

☐ 1.8.3(A)(4) Include list of prior property Owners and Operators, as well as sequencing of property transfers and time periods of occupancy.

See 2002 GZA Phase I/II Report - Sections 4.10, 4.40, and Table 1.

☐ 1.8.3(A)(5) Include previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of the Contaminated-Site.

See 2005 GZA Phase I/II Report - Sections 6.10 and 6.20 and the 2021 Nobis Phase II Report- Section 1.4.

☐ 1.8.3(A)(6) Include current uses and zoning of the Contaminated-Site, including brief statements of operations, processes employed, waste generated, Hazardous Materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.)

See 2005 GZA Phase I/II Report - Sections 6.10 and 6.20 and 2021 Nobis Phase I Report - Sections 2.3, 2.4, 5.3, and 5.4.

☐ 1.8.3(A)(7) Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.

See Figure 1 of this SIR Addendum.

☐ 1.8.3(A)(8) Include a site plan, to scale, showing: **See 2021 Nobis Phase II Figure 2 and 2021 Nobis Phase I ESA Appendix F-2 Sanborn Maps**

- ☐ Buildings **(See also Appendix D - Property Survey Plan and Master Plan)**
- ☐ Activities
- ☐ Structures
- North Arrow
- ☐ Wells
- ☐ UIC Systems, septic tanks, UST, piping and other underground structures – **See Cistern on Figure 2 Site Plan (2021 Nobis Phase II Report)**
- ☐ Outdoor Hazardous Materials storage and handling areas - **(See 2021 Nobis Phase II - App F-2 - Historical Fire Insurance Maps)**
- ☐ Extent of paved areas **(See also Appendix D - Property Survey Plan and Master Plan)**
- ☐ Location of environmental samples previously taken with analytical results
- ☐ Waste management and disposal areas
- ☐ Property Lines

☐ 1.8.3(A)(9) Include a general characterization of the property surrounding the area including, but not limited to:

- ☐ Location and distance to any surface water bodies within 500 ft of the site.
  Bristol Harbor borders the western boundary of the mill buildings
- ☐ Location and distance to any Environmentally Sensitive Areas within 500 ft of the site.
  There are no Environmentally Sensitive Areas within 500 ft. of the site.
- ☐ Actual sources of potable water for all properties immediately abutting the site.
  The Site and surrounding properties are serviced by municipal water.
- ☐ Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site.
  There are no public water supplies within one mile of the site. See 2021 Nobis Phase I Report - Appendix F-6, EDR Report Physical Settings Map.
- ☐ Determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both.
  Release is limited to soil only - no groundwater impacts identified. No known off-site areas impacted.
- ☐ Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area.
  Groundwater is classified as GB, See 2005 GZA Phase I/II - Section 10.0 and 2021 Nobis Phase II - Section 4.2. The nearest GA area is approximately 1-mi away.

☐ 1.8.3(A)(10) Include classifications of surface and ground water at and surrounding the site that could be impacted by a Release.
Impacts to groundwater have not been identified based previous investigations.

☐ 1.8.3(A)(11) Include a description of the contamination from the Release, including:

- ☐ Free liquids on the surface - **Not observed/encountered. See 2005 GZA Phase I/II and 2021 Nobis Phase I and II.**
- ☐ LNAPL and DNAPL - **Not observed/encountered. See 2005 GZA Phase I/II and 2021 Nobis Phase I and II**
- ☐ Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives (reference Section 1.13) **– See 2021 Nobis Phase II Table 8 and Release Notification**
- ☐ Impact to Environmentally Sensitive Areas – **None Observed.**
- ☐ Contamination of man-made structures Odors or stained soil **Some soil staining observed within fill materials in test pits. Please reference Appendix E of the 2021 Nobis Phase II report.**

☐ Stressed vegetation **Not observed.**

☐ Presence of excavated or stockpiled material and an estimate of its total volume
None observed.

☐ Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
See 2005 GZA Phase I/II - Sections 9.00 and 10.00 and Appendix G and 2021 Nobis Phase I & II Report Sections 2.0 and 3.0 and Appendix F.

☐ List of Hazardous Substances at the site
See Appendix B Release Notification of this submittal - Table 8

☐ Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands.
Contamination does not fall outside of the Remediation Regulations.

☐ 1.8.3(A)(12) Include the concentration gradients of Hazardous Substances throughout the site for each media impacted by the Release.

Release condition in soil is not attributed to a previously reported known spill or release but rather to long-time (100+ years) of industrial use (textile mill). Therefore, no concentration gradient (in either soil or groundwater) has been established or is considered to be present. Concentrations of hazardous substances in soil are assumed to be random and heterogenous across the site.

☐ 1.8.3(A)(13) Include the methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (see Section 1.13).

An investigation to determine background concentrations was not performed. See also Appendix B - Release Notification Submittal.

☐ 1.8.3(A)(14) Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of Hazardous Substances throughout and away from the site, including but not limited to, where appropriate:

☐ Depth to GW

Shallow (< 10 fbg) and tidally-influenced. See 2021 Nobis Phase II Report Section 3.2 and Table 2.

☐ Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration

Buildings, pavement, and vegetation are natural and man-made barriers that prevent migration of impacted soil.

☐ Characterization of bedrock

Not Applicable. See 2021 Nobis Phase I Report Section 2.7.

☐ Groundwater contours, flow rates and gradients throughout the site – **See Figure 3 of the 2021 Phase II report.**

☐ 1.8.3(A)(15) Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site.

See GZA Phase I/II Report – Sections 3.10, 3.20, 3.30 and 3.40 and 2021 Nobis Phase I Report – Section 2.7 and Appendix E.

☐ 1.8.3(A)(16) Include the potential for Hazardous Substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.

See 2021 Nobis Phase I Report - Section 8.0- Vapor Encroachment Screening and 2021 Nobis Phase II Report - Sections 4.3 and 5.0.

☐ 1.8.3(A)(17) Include the potential for entrainment of Hazardous Substances from the site by wind or erosion actions.

Potential for entrainment of Hazardous Substances from the site by wind or erosion is low or De Minimis due to soils being predominantly covered by buildings and/or pavement.

☐ 1.8.3(A)(18) Include detailed protocols for all fate and transport models used in the Site Investigation.

Fate and transport models (as related to groundwater and subslab soil gas/vapor intrusion) were not used as these risk exposure pathways were incomplete.

☐ 1.8.3(A)(19) Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. (Be sure to include the samples locations and analytical results on a site figure).

See 2005 GZA Phase I/II Report - Section 9.00 and Appendix G and 2021 Nobis Phase II Report - Section 2.0, Tables 1 through 8, Figure 2 (Site Plan) and Appendix F (Lab Data Reports).

☐ 1.8.3(A)(20) Include construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of the Groundwater Quality Rules.

See 2021 Nobis Phase II Report - Section 2.3 (Groundwater Monitoring Well Installation and Development) and Appendix D (Soil Boring/Well Logs).

☐ 1.8.3(A)(21) Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.

There was no investigation derived waste produced during 2021 Nobis Phase II site investigation.

☐ 1.8.3(A)(22) Include a quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques.

2021 Nobis Phase II - Samples were collected and submitted on ice following proper protocol and chain of custody procedures. See 2005 GZA Phase I/II Report Appendix G and the 2021 Nobis Phase II Report - Appendix F for analytical quality assurance and control summaries.

☐ 1.8.3(A)(23) Include any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the site.

Site history information indicates that operations at the site have taken place for many years and there are several historical sources of contamination with little documentation. Groundwater has been demonstrated to not be impacted by contamination at the site and areas of soil impacts are covered mostly by buildings and/or pavement and are therefore are only "potentially accessible". Direct contact with contaminated soils is low or unlikely unless

disturbed or uncovered during excavation or construction-related activities.

☐ 1.8.4 Include Remedial Alternatives. The Site Investigation Report shall contain a minimum of **TWO (2)** remedial alternatives other than no action/natural attenuation alternative, unless this requirement is waived by the Department. It should be clear which of these alternatives is most preferable. All alternatives shall be supported by relevant data contained in the Site Investigation Report and consistent with the current and reasonably forseeable land usage, and documentation of the following:

- Compliance with Section 1.9 (RISK MANAGEMENT);
- Technical feasibility of the preferred remedial alternative;
- Compliance with federal, state and local laws or other public concerns; and
- The ability of the Performing Party to perform the preferred remedial alternative.

See Appendix C of this SIR Addendum.

☐ 1.8.5 **Certification Requirements:** The Site Investigation Report and all associated progress reports shall include the following statements signed by an authorized representative of the party specified:

A statement signed by an authorized representative of the Person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and

A statement signed by the Performing Party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the Release and contains all known facts surrounding the Release to the best of their knowledge.

See Appendix E of this SIR Addendum.

☐ 1.8.6 **Progress Reports:** If the Site Investigation is not complete, include a schedule for the submission of periodic progress reports on the status of the investigation and interim reports on any milestones achieved in the project.

See cover letter of this SIR Addendum regarding schedule for supplemental site investigation for lead in soil around TP-7 on Parking Lot Parcel 10-76.

☐ **Public Involvement and Notice:** Be prepared to implement public notice requirements per Sections 1.8.7 and 1.8.9 of the Remediation Regulations when the Department deems the Site Investigation Report to be complete.

Indicate if the site falls within an Environmental Justice (EJ) area and, if applicable, include all EJ public notice documentation issued, and the list of recipients.

The site does not fall within an Environmental Justice Area.

APPENDIX B

May 3, 2022
File No. 095560.26

Ms. Kelly Owens, Supervisor
Rhode Island Department of Environmental Management
Office of Land Revitalization & Sustainable Materials Management
Site Remediation Program
235 Promenade Street
Providence, Rhode Island 02908-5767
Submitted via email - DEM.OWMSiteRemNor@dem.ri.gov

Re: Notification of Hazardous Material Release
Robin Rug Manufacturing
125 Thames Street, Bristol, Rhode Island

Dear Ms. Owens :

Nobis Engineering, Inc. d/b/a Nobis Group (Nobis), on behalf of Brady Sullivan Properties (our client) is submitting the enclosed Hazardous Material Release Notification Form for the Robin Rug Manufacturing located at 125 Thames Street in Bristol. This notification is being submitted in accordance with the RIDEM Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (250-RICR-140-30-1) *Subsection 1.6.1 – Notification of a Release.* If you require any further information, please feel free to contact the undersigned at 603-224-4182 or Mr. Chris Reynolds of Brady Sullivan.

Sincerely,

NOBIS GROUP®

Bettina E. Eames, PG
Senior Project Manager

Clarence "Tim" Andrews, PG | Associate
Director of State & Municipal Services

Attachment – Release Notification Form and Supporting Information
c: File No. 096660.26 (w/attach.)

Nobis Group®
18 Chenell Drive
Concord, NH 03301
T (603) 224-4182

Office of Land Revitalization & Sustainable Materials Management
Site Remediation Section

HAZARDOUS MATERIAL RELEASE NOTIFICATION FORM

THIS FORM IS NOT TO BE USED TO REPORT AN IMMINENT HAZARD

1. Notifier Information:

Name: Bettina Eames, Nobis Group

Address: 18 Chenell Drive, Concord NH 03301

Phone: (603) 513-7328

Email: beames@nobis-group.com

Status: X ☐ Environmental Professional ☐ Secured Creditor
☐ Owner ☐ Voluntary
☐ Operator

If Environmental Professional is selected, please supply the follow information for your client below:

Name: Chris Reynolds, Brady Sullivan Properties

Address: 670 North Commercial Street, Manchester NH 03101

Phone: (508) 728-9208

Email: creynolds@bradySullivan.com

Status: ☐ Owner ☐ Secured Creditor
☐ Operator ☐ Voluntary
X (Prospective Purchaser)

2. Property Information:

Name of Site: Robin Rug Manufacturing Facility

Site Address: 125 Thames Street, Bristol, RI

Plat/Lot Numbers: Main Mill Parcels (10-42, 10-60, 10-61, 10-62, 10-73); Parking Lot Parcels (10-43 and 10-76)

Approximate Acreage of Property: Main Mill parcels (2.9 acres); Parking Lot Parcels (0.338 acres)

Latitude/Longitude: 41 deg 40 min 1.88 sec Latitude N; 71 deg 16 min 38.70 sec Longitude W.

Site Land Usage Type: ☐ Residential ☒ Industrial/Commercial

Location of Release (Attach site sketch as necessary): Main Mill Parcels Lots 10-42 and 10-60; Parking Lot Parcels 10-43 and 10-76. See attached Figures 1 and 2.

3. Release Information:

Date of Discovery: 8/6/2021

Source: Historical Fill and incidental releases of 100+years of rug manufacturing at mill complex.

Release Media: Soil

Hazardous Materials and Concentrations (Attach certificates of analysis as necessary):
Oil and hazardous materials including PAHs, metals (arsenic, lead) and petroleum. See attached supplemental narrative, tables and lab reports.

Extent of Contamination: OHM suspected underlying all of Main Mill parcels. Localized arsenic, lead and petroleum (gasoline) on parking lot parcels 10-42 and 10-76.

Approximate acreage of Contaminated Area: 2.9 acres (Main Mill parcels); < 0.338 acres (parking lot parcels 10-43 and 10-76)

4. Resource Information:

	(current)	(future use is residential apartment/condo)
Site Land Usage:	☒ Industrial/Commercial	☐ Residential
Adjacent Land Usage:	☐ Industrial/Commercial	☒ Residential
Site Groundwater Class:	☐ GA/GAA	☒ GB
Adjacent Groundwater Class: (if different than site groundwater classification within 500 feet)	☐ GA/GAA	☒ GB
Nearest Surface Water or Wetland:	☒ Less Than 500 Feet	☐ Greater Than 500 Feet

Potential for adverse impact? ☐ Yes ☒ No

5. Potentially Responsible Parties:

Name: Russell Karin, Russ-Russ Realty Co.

Address: 125 Thames Street, Bristol, RI

Status: ☒ Owner ☐ Operator ☐ Other:

Name:

Address:

Status: ☐ Owner ☐ Operator ☐ Other:

6. Measures taken or proposed to be taken in response to Release:
1) Preparation of Soil Management Plan and HASP for work during redevelopment activities.
2) Preparation and Management of on-site soils > RDEC and > IDEC via use of Environmental Land Use Restriction (ELUR).
3) Localized excavation and off-site disposal of lead-impacted soils on parking lot parcel 10-76 during redevelopment activities.

Check all that apply: ☐ Site Investigation ☐ Short-Term/Emergency ☐ EXPRESS Policy ☐ Dig & Haul Policy

7. Other significant remarks about Release (Will a background determination be made?)

Signature: _____ **Date:** May 3, 2022

Title: Senior Project Manager, Nobis Group

Hazardous Material Release Notification Form
Supplemental Information
Robin Rug Manufacturing
125 Thames Street, Bristol, RI

2 Property Information

Site Description

The subject property is comprised of 14 parcels (collectively referred to as the "subject property") totaling approximately 3.47± acres of land and includes industrial, commercial, residential, parking lot and undeveloped land use. The location of the subject property is shown on **Figure 1 - Locus Map**. Pertinent site features are shown on **Figure 2 – Site Plan.** Groundwater flow directions are shown on **Figure 3**. The subject property includes the Main Mill Building property (5 parcels) and 8 parcels located on adjacent Thames Street. These parcels are identified on the Town of Bristol Tax Map 10 as follows:

- **Robin Rug Mill Building Property** - includes parcels 10-42, 10-60, 10-61, 10-62, and 10-73. Robin Rug is a braided rug manufacturing facility. The building is made up of several interconnected buildings with industrial and commercial use.

- **Mill Parking Lots** - located on Thames Street east of the Mill Building and includes parcels 10-41, 10-44 and 10-68. These parcels are used as a parking lot for the mill.

- **Lot 10-32** – located at the corner of Church and Thames Street is a seasonal parking lot rented from the property owner by the Town of Bristol.

- **Lots 10-76, 10-43, and 10-74** - located between Hope Street and Thames Street and consists of a gravel parking lot.

- **Lot 10-49** – located at 60 Thames Street. This property is a single-family residence.

- **Lot 10-50** – located at 70 Thames Street. This property is a two-family residence.

The subject property is located along the waterfront of Bristol Harbor within the Town's Waterfront Planned Unit Development zone. The subject property is abutted by mostly residential properties (some commercial properties) to the north and east, by the Bristol Elks lodge to the southwest, and by the Maritime Welcome Center (former armory and community center) to the northwest. The parcels located east of Thames Street are in the Downtown and Residential R-6 zones.

Hazardous Material Release Notification Form
Supplemental Information
Robin Rug Manufacturing
125 Thames Street, Bristol, RI

Site Land Usage Type:

Currently, the subject property consists of parcels which are used for both residential (Lots 10-49 and 10-50 at 60 and 70 Thames Street, respectively) and industrial/commercial purposes (Main Mill parcel and parking lot parcels). In the future, the Main Mill parcel is proposed to be used for residential purposes (condominiums) upon development.

3 Release Information

Source/Site History

The two main Mill parcels (Lots 10-42 and 10-60) were originally developed as a textile mill producing cottons and yarns, including operation of a dye house, in the late 1800s though the mid-1900s. Circa 1975, Robin Rug purchased the property and operated the mill to produce braided rugs. Residential properties at 60 and 70 Thames Street were historically residential and used as single or double-family homes. Prior to the 1960s, green houses were reportedly present on Lots 10-43 and 10-76. The Mill paved and gravel parking lots have historically been undeveloped, while the Church and Thames Parking Lot (Lot 10-32) appears to have previously been developed as a residence, a store and boarding house.

Release Media

In 2021, Nobis Group® (Nobis) conducted a limited Phase II site investigation on behalf of Brady Sullivan Properties for a perspective purchase of the site. The limited Phase II included subsurface drilling, well survey and groundwater sampling and chemical analysis of soil, groundwater, soil vapor and building materials. Samples were analyzed for a combination of analytes, including VOCs, PAHs, TPH and/or metals. Building materials were sampled for PCBs. Media requiring reporting to the Rhode Island Department of Environmental Management (RIDEM) was identified to include **Soil only**. A summary of the findings of the limited Phase II, were as follows:

- Subsurface soil consists of fill overlying native marine deposits consisting of alternating layers of sand, silt, and clay. Fill consists of fine to coarse sand with debris consisting of crushed stone/rock, concrete, brick, ash, slag, glass, plastic, and wire fragments. Fill is present in several area of the site, including west of the main mill, the central northern

interior (SB-6/SB-7 area) and in the parking lots parcels east of Thames Street. Fill ranged in thickness from approximately 3 to 8 feet. The greatest amount of fill (≈8 feet) was encountered in TP-6 on Lot 10-43.

- Except for one reading (65 ppmv in TP-6), PID readings of TVOCs in soil were generally low and less than 1 ppmv in most locations. Petroleum odors were encountered at the groundwater table at 8 fbg in TP-6 only. No dark brown or black-stained soils were encountered in the subsurface. No sheen or free product was encountered in groundwater monitoring locations.

- A UST, which was suspected to exist based upon GPR, was not encountered during test pit explorations at TP-7 on Lot 10-76. The past and/or current use of the two unknown metal pipes in this location remains unclear. Lead was detected at 4,600 mg/kg in TP-7 at depth of 0 to 3.5 feet and is suspected to be related to the presence of ash.

- In soil, contaminants detected included primarily PAHs, TPH and metals (primarily arsenic and lead). The contaminants may be related to the presence of anthropogenic fill (placed by man) or pyrogenic fill (burn residue or produced by fire) and/or possibly by undocumented releases from historic mill activities and operations. Other contaminants such as VOCs, pesticides, PCBs, cyanide, and hexavalent chromium were low and/or not detected. Several constituents detected in soil exceed the Rhode Island Residential DEC and/or the Industrial/Commercial DEC. Exceedance of the DECs indicates that a potential increased risk to human health exists via the direct contact pathway. **See Table 8 attached.**

- In groundwater, VOCs and TPH were not detected in groundwater monitoring wells located on the Main Mill Building parcels (Lots 10-42 and 10-60) and or in NB-3 installed on parking lot parcel Lot 10-43. PAHs were detected at low concentrations in GZA-3 primarily located on the downgradient site of the subject property. Based upon the groundwater sampling data, groundwater quality does not appear significantly negatively impacted and is consistent with groundwater quality in GB areas.

- In subslab soil vapor, VOCs are present at varying concentrations. VOCs reported include various types of gasoline related compounds and several CVOCs. Total VOC vapor

concentrations (772.05 ug/m3) in SG-4 located beneath Mill Bldg#7 was much higher than in other locations. Most of the total VOC concentration in SG-4 soil vapor consisted of trichlorofluoromethane (Freon 11) and PCE. The State of Rhode Island does not have a stand-alone guidance dedicated to vapor intrusion and/or standards (like CTDEEP) or vapor screening values (like MassDEP). For comparison only, the PCE concentration of 260 ug/m3 in SG-4 exceeds the MassDEP Subslab Soil Gas Screening Value for Residential Use. Per MassDEP guidance, this exceedance indicates that the vapor intrusion pathway may be of concern under future residential use conditions. However, the PCE soil vapor detection was in only 1 of 4 sample locations and was in portion of the main mill building proposed as open-air garage space (below first residential living floor). Additionally, PCE was not detected in either soil or groundwater and thus the presence of PCE in soil vapor may be indicative of background conditions and from an unknown off-site source. Thus, this single PCE soil vapor detection beneath the subslab is not considered to have an impact on proposed future use.

- In wipe samples, low to trace levels of PCBs are present. Wipe samples indicated that low level PCBs are associated with some elevator oils and in some stained concrete surfaces (from past spills) in the basement. Total PCB wipe concentrations were less than 1 ug/100 cm2 which is below the reporting notification threshold per State of Rhode Island and federal (TSCA) requirement of 10 ug/100 cm2.

TABLES

Table 1
Soil PID Readings
Robin Rug
125 Thames Street
Bristol, Rhode Island

Location	Sample Number	Sample Depth (ft)	PID Reading (ppmV)
SB-1	-	0 to 4	No readings collected
SB-2	S-1	5 to 7	1.7
SB-2	S-1	7 to 10	3.7
SB-2	S-2	10 to 11	3.8
SB-2	S-2	12 to 13	1.2
SB-2	S-2	15	<1
SB-3	S-1	5 to 7	3.0
sB-3	S-1	7 to 10	4.5
SB-3	S-2	10 to 12	1.0
SB-3	S-2	12 to 15	2.4
SB-4	S-1	0 to 4	3.0
SB-4	S-1	4 to 5	7.3
SB-4	S-2	5 to 9	<1
SB-4	S-2	9 to 10	<1
SB-4	S-3	10 to 13	<1
SB-4	S-3	13 to 15	<1
SB-5	S-1	0 to 3	8.9
SB-5	S-1	3 to 5	<1
SB-5	S-2	5 to 7	7.6
SB-5	S-2	7 to 9	1.6
SB-5	S-2	9 to 10	14.5
SB-5	S-3	10 to 15	<1
SB-6	--	0 to 1	<1
SB-6	--	1 to 2	<1
SB-7	--	0 to 2.5	2.3
SB-8	S-1	0 to 4	8.0
SB-8	S-1	4 to 5	<1
SB-8	S-2	5 to 8	<1
SB-8	S-2	8 to 10	<1
SB-8	S-3	10 to 12	3.7
SB-8	S-3	12 to 15	<1
SB-9	S-1	0 to 3	<1
SB-9	S-1	3 to 5	<1
SB-9	S-2	5 to 7	<1
SB-9	S-2	7 to 9	<1
SB-9	S-2	9 to 10	<1
SB-9	S-3	10 to 13	<1
SB-9	S-3	13 to 15	<1

Table 1
Soil PID Readings
Robin Rug
125 Thames Street
Bristol, Rhode Island

Location	Sample Number	Sample Depth (ft)	PID Reading (ppmV)
SB-10	S-1	0 to 5	4.3
SB-10	S-2	5 to 7	26
SB-10	S-2	7 to 9	1.1
SB-10	S-2	9 to 10	16.4
SB-10	S-3	10 to 13	3.8
SB-10	S-3	13 to 15	14.5
SB-11	S-1	0 to 3	<1
SB-11	S-1	3 to 5	<1
SB-11	S-2	5 to 7	<1
SB-11	S-2	7 to 10	<1
SB-11	S-3	10 to 11	<1
SB-11	S-3	11 to 15	<1
TP-1	--	0 to 1	<1
TP-1	--	1 to 2	<1
TP-1	--	2 to 3	<1
TP-1	--	3 to 4	<1
TP-1	--	4 to 5	<1
TP-2	--	0 to 1	<1
TP-2	--	1 to 2	<1
TP-2	--	2 to 3	<1
TP-2	--	3 to 4	1.1
TP-2	--	4 to 5	<1
TP-2	--	5 to 6	<1
TP-2	--	6 to 7	<1
TP-3	--	0 to 1	<1
TP-3	--	1 to 2	<1
TP-3	--	2 to 3	<1
TP-3	--	3 to 4	<1
TP-3	--	4 to 5	<1
TP-3	--	5 to 6	<1
TP-3	--	6 to 7	<1
TP-4	--	0 to 2	<1
TP-4	--	2 to 4	<1
TP-4	--	4 to 6	<1
TP-4	--	6 to 8	<1
TP-4	--	8 to 9	<1
TP-4	--	9 to 10	<1
TP-5	--	0 to 2	<1
TP-5	--	2 to 4	<1
TP-5	--	4 to 6.5	<1

Table 1
Soil PID Readings
Robin Rug
125 Thames Street
Bristol, Rhode Island

Location	Sample Number	Sample Depth (ft)	PID Reading (ppmV)
TP-6	--	0 to 3	<1
TP-6	--	3 to 6	<1
TP-6	--	6 to 8	<1
TP-6	--	8 to 10	65.6
TP-7 (1)	--	0 to 3	<1
TP-7 (1)	--	3 to 5	<1
TP-7 (1)	--	5 to 7	<1
TP-7 (2)	--	0 to 2	<1
TP-7 (2)	--	2 to 4	<1
TP-7 (2)	--	4 to 6	<1
TP-7 (2)	--	6 to 7	<1
TP-7 (2)	--	7 to 8	<1
TP-8	--	0 to 2	<1
TP-8	--	2 to 4	<1
TP-8	--	4 to 6	<1
TP-9	--	0 to 2	<1
TP-9	--	2 to 4	<1
TP-9	--	4 to 6	<1
TP-9	--	4 to 6	<1
TP-10	--	0 to 1	<1
TP-10	--	1 to 2	<1
TP-10	--	2 to 4	<1
TP-10	--	4 to 5	<1
TP-10	--	5 to 7	<1
TP-10	--	7 to 8	<1
TP-10	--	8 to 9	<1
TP-10	--	9 to 10	<1
TP-11	--	0 to 3	<1
TP-11	--	3 to 5	<1
TP-11	--	5 to 7	<1
TP-12	--	0 to 2	<1
TP-12	--	2 to 4	<1
TP-12	--	4 to 6	<1
TP-12	--	6 to 7	<1
TP-13	--	0 to 2	<1
TP-13	--	2 to 4	<1
TP-13	--	4 to 5	<1
TP-13	--	5 to 6.5	<1

Table 1
Soil PID Readings
Robin Rug
125 Thames Street
Bristol, Rhode Island

Location	Sample Number	Sample Depth (ft)	PID Reading (ppmV)
TP-14	--	0 to 1	<1
TP-14	--	1 to 2	<1
TP-14	--	2 to 3	<1
TP-14	--	3 to 4	<1
TP-14	--	4 to 5	<1
TP-14	--	5 to 6	<1
TP-14	--	6 to 7	<1
TP-14	--	7 to 8	<1
TP-14	--	8 to 9	<1
TP-19	--	0 to 1	<1
TP-19	--	1 to 2	<1
TP-19	--	2 to 3	<1
TP-19	--	3 to 4	<1
TP-19	--	4 to 5	<1
TP-19	--	5 to 6	<1
TP-19	--	6 to 7.5	<1

Notes:

1. Soil boring PID headspace readings were recorded during drilling operations on June 8, 9 and 10, 2021.
2. Soil test pit PID headspace readings were recorded during excavation on June 10 and 11, 2021.
3. PIDs were calibrated and used in accordance with Nobis SOP FS-007 Vapor and Air Screening with PID and FID.

Table 2
Groundwater Elevation Data
Robin Rug
125 Thames Street
Bristol, Rhode Island

Well No.	Date	Reference Elevation (ft.)	Depth to Groundwater (ft.)	Groundwater Elevation (ft.)
NB-2	6/30/2021	98.90	5.40	93.50
NB-3	6/30/2021	109.78	6.44	103.34
GZA-1	6/30/2021	96.93	7.71	89.22
GZA-2	6/30/2021	96.35	7.09	89.26
GZA-3	6/30/2021	96.14	6.57	89.57

Notes:

1. Well elevations were surveyed on June 30, 2021. The reference elevation is based on a temporary benchmark located at the southeast corner of a conrete pad on Church Street Extension, with a given elevation of 100 ft.

2. Groundwater level measurements were obtained by Nobis Group on the dates indicated, using an electronic water level indicator.

Table 3
Soil Analytical Results - Soil Borings
Robin Rug
125 Thames Street
Bristol, Rhode Island

Parameter	Units	Soil Boring/Sample Depth								RIDEM Soil Standards [1][2]		
		SB-3 7-9 ft	SB-2 12-14 ft	SB-4 7-9 ft	SB-5/NB-1 10-12 ft	SB-6 2 ft	SB-7 2 ft	SB-8/NB-2 7-9 ft	SB-11 8-10 ft	RDEC	I/C DEC	Leachability Criteria (GB)
VOCS (EPA 8260C):												
Tetrachloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	**0.40**	<0.5	<0.5	12	110	4.2
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.10**	<0.1	<0.1	<0.1	NS	NS	NS
SVOCs (8270D):												
Carbazole	mg/kg	< 0.08	< 0.08	< 0.08	<0.08	**3.10**	**0.57**	< 0.07	< 0.08	NS	NS	NS
Dibenzofuran	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**2.20**	**0.31**	< 0.07	< 0.08	NS	NS	NS
Naphthalene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**2.60**	**0.35**	< 0.07	< 0.08	54	10,000	NS
2-Methylnaphthalene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**0.73**	**0.12**	< 0.07	< 0.08	123	10,000	NS
1-Methylnaphthalene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**0.55**	**0.13**	< 0.07	< 0.08	NS	NS	NS
Acenaphthylene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**2.8**	**0.57**	< 0.07	< 0.08	23	10,000	NS
Acenaphthene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**2.4**	**0.41**	< 0.07	< 0.08	43	10,000	NS
Fluorene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**2.6**	**0.40**	< 0.07	< 0.08	28	10,000	NS
Phenanthrene	mg/kg	< 0.08	< 0.08	< 0.08	**0.11**	**30**	**4.90**	< 0.07	< 0.08	40	10,000	NS
Anthracene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**8.1**	**1.40**	< 0.07	< 0.08	35	10,000	NS
Fluoranthene	mg/kg	< 0.08	< 0.08	< 0.08	**0.14**	**57**	**7.20**	< 0.07	< 0.08	28	10,000	NS
Pyrene	mg/kg	< 0.08	< 0.08	< 0.08	**0.12**	**37**	**6.80**	< 0.07	< 0.08	13	10,000	NS
Benzo[a]anthracene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**25**	**4.60**	< 0.07	< 0.08	0.9	7.8	NS
Chrysene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**22**	**4.20**	< 0.07	< 0.08	0.4	780	NS
Benzo[b]fluoranthene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**27**	**6.10**	< 0.07	< 0.08	0.9	7.8	NS
Benzo[k]fluoranthene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**7.8**	**2.30**	< 0.07	< 0.08	0.9	78	NS
Benzo[a]pyrene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**22**	**4.60**	< 0.07	< 0.08	0.4	0.8	NS
Indeno[1,2,3-cd]pyrene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**9.2**	**1.30**	< 0.07	< 0.08	0.9	7.8	NS
Dibenz[a,h]anthracene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**2.2**	**0.31**	< 0.07	< 0.08	0.4	0.8	NS
Benzo[g,h,i]perylene	mg/kg	< 0.08	< 0.08	< 0.08	< 0.08	**6.3**	**0.98**	< 0.07	< 0.08	0.8	10,000	NS
Total SVOCs	mg/kg	<0.08	<0.08	<0.08	**0.37**	**270.58**	**47.55**	<0.07	<0.08	n/a	n/a	n/a
Total PAHs	mg/kg	<0.08	<0.08	<0.08	**0.37**	**265.28**	**46.67**	<0.07	<0.08	n/a	n/a	n/a
TPH (8100 Modified):												
C9 - C40 Hydrocarbons	mg/kg	<30	<30	<30	**90**	**800**	**190**	<30	<30	500	2,500	2,500
Pesticides (EPA 8081B):	mg/kg	<0.005 to <0.05	<0.005 to <0.05	<0.005 to <0.05	<0.005 to <0.05	<0.005 to <0.05	<0.005 to <0.05	<0.005 to <0.05	<0.005 to <0.05	NS	NS	NS
PCBs (8082A):	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10	10	10.0
Metals:												
Arsenic	mg/kg	**4.1**	**4.0**	**1.5**	**4.2**	**6.1**	**4.7**	**8.50**	**4.5**	7.00	7.00	NS
Barium	mg/kg	**19**	**11**	**2.3**	**8.5**	**92**	**62**	**16**	**18**	5500	10000	NS
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	39	1000	NS
Chromium, Total	mg/kg	**14**	**7.7**	**6.1**	**24**	**25**	**17**	**12**	**12**	1790	20000	NS
Chromium, Hexavalent	mg/kg	NA	NA	<0.43	<0.41	<0.44	<0.44	NA	NA	390	10000	NS
Lead	mg/kg	**6.7**	**5.7**	**2.3**	**19**	**310**	**260**	**6.60**	**7.7**	150	500	NS
Mercury	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	**0.60**	**0.16**	<0.1	< 0.1	23	610	NS
Selenium	mg/kg	< 0.5	< 0.5	< 0.5	**0.52**	< 0.5	< 0.5	**0.57**	< 0.5	390	10000	NS
Silver	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	200	10000	NS
TCLP, Lead:	mg/L	NA	NA	NA	NA	<0.5	<0.5	NA	NA	n/a	n/a	NS
Cyanide, Total:	mg/kg	<0.5	<0.5	<0.5	<0.5	**0.54**	<0.5	<0.5	<0.5	200	10,000	NS

Notes:
Samples were collected on June 8, 9 and 10, 2021.
Samples were analyzed by Eastern Analytical, Inc. of Concord, NH.
Samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260C. Only analaytes detected at least once shown above.
Samples were analyzed for Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D. Only analytes detected at least once shown above.
NA = Not analyzed for parameter shown.

<0.5	Concentration is less than laboratory detection limit. Analyte not detected.
57	Concentration in **BOLD/Yellow** exceeds Residential Direct Exposure Criteria (RDEC)
9.2	Concentration in **BOLD/Blue** exceeds both Residential Direct Exposure Criteria (RDEC) and Industrial/Commercial DEC (IC/DEC)

(1) Source: Rhode Island Department of Environmental Management (RIDEM) - Site Remediation Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, effective April 22, 2020. Subchapter 30, Section 1.9.2 - Soil Objectives Table 2 : Direct Exposure Criteria for Residential (REDEC) and Industrial/Commercial (I/CDEC) and Table 2 - Leachability Criteria for GA Groundwater and GB Groundwater.

(2) Source RIDEM Site Remediation Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, effective April 22, 2020. Subchapter 30, Section 1.92 Soil Objectives, Subsection B.4. (a) Soil Objectives for Total Petroleum Hydrocarbons (TPH).
NS = indicates no standard is established for parameter group and/or analyte.

Table 4
Soil Analytical Results - Test Pits
Robin Rug
125 Thames Street
Bristol, Rhode Island

Parameter	Units	Test Pit No./Sample Depth								RIDEM Standards [1] [2]		
		TP-1 0-2 ft	TP-2 3-4 ft	TP-3 2-3 ft	TP-4 9 ft	TP-5 6 ft	TP-6 9-10 ft	TP-7 0-3.5 ft	TP-14 1-2 ft	RDEC	I/C DEC	Leachability Criteria (GB)
VOCS (EPA 8260C):												
Styrene	mg/kg	<0.5	--	**5.1**	--	<0.5	<0.5	<0.8	<0.5	13	190	64
SVOCS/PAHs (EPA 8270D):												
Naphthalene	mg/kg	< 0.07	**0.086**	< 0.09	< 0.08	< 0.07	< 0.08	< 0.09	< 0.08	54.00	10000	NS
Acenaphthylene	mg/kg	**0.10**	**0.19**	< 0.09	< 0.08	< 0.07	< 0.08	< 0.09	< 0.08	23.00	10000	NS
Acenaphthene	mg/kg	< 0.07	**0.13**	< 0.09	< 0.08	< 0.07	< 0.08	< 0.09	< 0.08	43.00	10000	NS
Fluorene	mg/kg	**0.07**	**0.19**	< 0.09	< 0.08	< 0.07	< 0.08	< 0.09	< 0.08	28.00	10000	NS
Phenanthrene	mg/kg	**0.75**	**1.50**	**0.57**	< 0.08	< 0.07	< 0.08	**0.17**	**0.38**	40.00	10000	NS
Anthracene	mg/kg	**0.22**	**0.46**	**0.12**	< 0.08	< 0.07	< 0.08	< 0.09	**0.12**	35.00	10000	NS
Fluoranthene	mg/kg	**1.30**	**2.40**	**0.95**	< 0.08	< 0.07	< 0.08	**0.53**	**0.71**	28.00	10000	NS
Pyrene	mg/kg	**1.10**	**2.10**	**0.79**	< 0.08	< 0.07	< 0.08	**0.61**	**0.59**	13.00	10000	NS
Benzo[a]anthracene	mg/kg	**0.71**	**1.30**	**0.70**	< 0.08	< 0.07	< 0.08	**0.44**	**0.37**	0.90	7.80	NS
Chrysene	mg/kg	**0.69**	**1.30**	**0.75**	< 0.08	< 0.07	< 0.08	**0.40**	**0.38**	0.40	780	NS
Benzo[b]fluoranthene	mg/kg	**0.83**	**1.60**	**0.93**	< 0.08	< 0.07	< 0.08	**0.40**	**0.47**	0.90	7.80	NS
Benzo[k]fluoranthene	mg/kg	**0.33**	**0.54**	**0.35**	< 0.08	< 0.07	< 0.08	**0.14**	**0.16**	0.90	78.00	NS
Benzo[a]pyrene	mg/kg	**0.68**	**1.30**	**0.65**	< 0.08	< 0.07	< 0.08	**0.35**	**0.36**	0.40	0.80	NS
Indeno[1,2,3-cd]pyrene	mg/kg	**0.32**	**0.58**	**0.28**	< 0.08	< 0.07	< 0.08	**0.21**	**0.26**	0.90	7.80	NS
Dibenz[a,h]anthracene	mg/kg	**0.08**	**0.15**	< 0.09	< 0.08	< 0.07	< 0.08	< 0.09	< 0.08	0.40	0.80	NS
Benzo[g,h,i]perylene	mg/kg	**0.24**	**0.43**	**0.21**	< 0.08	< 0.07	< 0.08	**0.22**	**0.22**	0.80	10000	NS
Total PAHs	mg/kg	**7.42**	**14.17**	**6.30**	<0.08	<0.07	<0.08	**3.47**	**4.02**	n/a	n/a	n/a
TPH (8100 Modified):												
C9 - C40 Hydrocarbons	mg/kg	**69**	**93**	**230**	< 30	< 30	**580**	**69**	**59**	500	2500	2500
Pesticides (EPA 8081B):												
4,4'-DDT	mg/kg	< 0.005	NA	< 0.006	NA	NA	**0.040**	**0.014**	< 0.006	NS	NS	NS
4,4'-DDE	mg/kg	< 0.005	NA	< 0.006	NA	NA	< 0.006	**0.012**	< 0.006	NS	NS	NS
4,4'-DDD	mg/kg	< 0.005	NA	< 0.006	NA	NA	**0.063**	< 0.006	< 0.006	NS	NS	NS
PCBs (8082A):												
PCB-1260	mg/kg	**0.040**	NA	< 0.02	NA	NA	< 0.02	< 0.02	< 0.02	10	10	10.0
Metals:												
Arsenic	mg/kg	**8.4**	**6.9**	**18**	**4.9**	**2.9**	**2.3**	**6.6**	**4.2**	7	7	NS
Barium	mg/kg	**29**	**43**	**120**	**20**	**11**	**8.3**	**1,500**	**72**	5500	10000	NS
Cadmium	mg/kg	< 0.5	**0.59**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	39	1000	NS
Chromium, Total	mg/kg	**14**	**25**	**15**	**13**	**8.4**	**7.1**	**13**	**15**	1790	20000	NS
Chromium, Hexavalent	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	390	10000	NS
Lead	mg/kg	**55**	**130**	**63**	**7.7**	**6.0**	**8.4**	**4,600**	**99**	150	500	NS
Mercury	mg/kg	< 0.1	**0.28**	**0.13**	< 0.1	< 0.1	< 0.1	**0.28**	**0.22**	23	610	NS
Selenium	mg/kg	**0.65**	**0.66**	**2.4**	< 0.5	< 0.5	**0.82**	**1.3**	**0.54**	390	10000	NS
Silver	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	200	10000	NS
TCLP, Lead:	mg/L	NA	<0.5	NA	NA	NA	NA	**1.4**	<0.5	n/a	n/a	NS

Notes:
Samples were collected on June 10 and 11, 2021.
Samples were analyzed by Eastern Analytical, Inc. of Concord, NH.
Samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260C. Only analytes detected at least once shown above.
Samples were analyzed for Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D analyzed for PAHs only. Only analytes detected at least once shown above.
NA = Not analyzed for parameter shown.

<0.5	Concentration is less than laboratory detection limit. Analyte not detected.
57	Concentration in **BOLD/Yellow** exceeds Residential Direct Exposure Criteria (RDEC)
9.2	Concentration in **BOLD/Blue** exceeds both Residential Direct Exposure Criteria (RDEC) and Industrial/Commercial DEC (IC/DEC)

(1) Source: Rhode Island Department of Environmental Management (RIDEM) - Site Remediation Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, effective April 22, 2020. Subchapter 30, Section 1.9.2 - Soil Objectives Table 2 : Direct Exposure Criteria for Residential (REDEC) and Industrial/Commercial (I/CDEC) and Table 2 - Leachability Criteria for GA Groundwater and GB Groundwater.
(2) Source RIDEM Site Remediation Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, effective April 22, 2020. Subchapter 30, Section 1.92 Soil Objectives, Subsection B.4. (a) Soil Objectives for Total Petroleum Hydrocarbons (TPH).
NS = indicates no standard is established for parameter group and/or analyte.

Table 5
Groundwater Sampling Results
Robin Rug
125 Thames Street
Bristol, Rhode Island

Parameter	Units	Sample Location					RIDEM Site Remediation - Method 1 Groundwater Objective (1)
		NB-2	NB-3	GZA-1	GZA-2	GZA-3	GB Category
VOCs (EPA 8260):	mg/L	<0.5 to <30	<0.5 to <30	<0.5 to <30	<0.5 to <30	<0.5 to <30	varies
PAHs (EPA Method 8270):							
Phenanthrene	mg/L	<0.1	<0.1	<0.1	<0.1	**0.13**	NS
Fluoranthene	mg/L	<0.1	<0.1	<0.1	<0.1	**0.28**	NS
Pyrene	mg/L	<0.1	<0.1	**0.14**	<0.1	**0.24**	NS
Benzo[a]anthracene	mg/L	<0.1	<0.1	<0.1	<0.1	**0.18**	NS
Chrysene	mg/L	<0.1	<0.1	<0.1	<0.1	**0.12**	NS
Benzo[b]fluoranthene	mg/L	<0.1	<0.1	<0.1	<0.1	**0.18**	NS
Benzo[a]pyrene	mg/L	<0.1	<0.1	<0.1	<0.1	**0.14**	NS
TPH (EPA 8100 Modified):							
C9 - C40 Hydrocarbons	mg/L	<0.4	<0.5	<0.5	<0.4	<0.4	NS

Notes:
Samples were collected on 6/29/21. NB-2 was sampled on 6/30/21.
Samples were analyzed by Eastern Analytical, Inc. of Concord, NH.
Samples were analyzed by EPA Method 8270 for PAHs only.

<0.5	Concentration is less than laboratory detection limit. Analyte not detected.
0.14	Concentrations in **BOLD** indicate analytes detected above laboratory detection limits.

(1) Source: Rhode Island Department of Environmental Management (RIDEM) - Site Remediation Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, effective April 22, 2020. Subchapter 30, Section 1.9.3 - Groundwater Objectives Table 4: GB Groundwater Objectives.
NS = indicates no standard is established for parameter group and/or analyte.

Table 6
Subslab Soil Vapor Sampling Results
Robin Rug
125 Thames Street
Bristol, Rhode Island

Parameter	Units	Sample Location				Soil Vapor Screening Values [1]			
						CT DEEP 2021 [2]		MassDEP - 2013 [3]	
		SG-1	SG-2	SG-4	SG-5	Volatilization Criteria		Sub-Slab Soil Gas Screening Values	
		Bldg #3	Bldg #1	Bldg#7	Bldg#7A	Residential	I/C	Residential	I/C
VOCs (EPA Method TO-15):									
Acetone	ug/m^3	**12**	**12**	**13**	**28**	140,000	690,000	6,400	50,000
Benzene	ug/m^3	**0.95**	<0.32	<0.32	**0.61**	2,500	4,600	160	770
Chloroform	ug/m^3	**0.74**	**1.80**	<0.49	**0.81**	380	690	130	210
1,4-Dichlorobenzene	ug/m^3	**9.90**	**2.70**	**1.10**	<0.60	18,000	33,000	35	120
Ethanol	ug/m^3	**20**	**62**	**44**	<7.5	-	-	-	-
Ethylbenzene	ug/m^3	**0.89**	**0.59**	<0.43	**0.52**	40,000	400,000	520	62,000
Styrene	ug/m^3	<0.43	**0.43**	<0.43	**0.53**	39,000	400,000	98	1,400
Tetrachloroethylene (PCE)	ug/m^3	**9.60**	**18**	**260**	**11**	3,800	6,900	98	290
Toluene	ug/m^3	**4.80**	**1.60**	**0.93**	**2.30**	160,000	690,000	3,800	310,000
1,1,1-Trichloroethane (1,1,1-TCA)	ug/m^3	<0.55	<0.55	**2.30**	<0.55	380,000	690,000	210	320,000
Trichloroethylene (TCE)	ug/m^3	<0.54	**1.20**	**19**	<0.54	760	1,400	28	130
Trichlorofluoromethane (Freon 11)	ug/m^3	**13**	<2.2	**430**	<2.2	-	-	-	-
1,2,4-Trimethylbenzene	ug/m^3	**2.80**	<0.49	<0.49	<0.49	-	-	-	-
Xylenes, Total	ug/m^3	**2.38**	**1.56**	**1.72**	**1.87**	170,000	690,000	1,400	6,200
Total VOCs	ug/m3	**77.06**	**101.88**	**772.05**	**45.64**	-	-	-	-

Notes:
Vapor (air) samples were collected on 6/30/21.
Samples were analyzed by Con-Test, a Pace Analytical Laboratory.
Samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method TO-15

<0.5	Concentration is less than laboratory detection limit. Analyte not detected.
0.14	Concentration in **BOLD** indicate analytes detected above laboratory detection limits.
260	Concentration in **BOLD/Yellow** exceeds MassDEP Residenital Use Subslab Soil Gas Screening Value.

(1) Source: Rhode Island Department of Environmental Management (RIDEM) has no screening values or standards for soil vapor. Screening values shown from CTDEEP and MassDEP are for reference only.
(2) Source: State of Connecticut Regulations - Volatilization Criteria for Soil Vapor, Appendix F to RSRs 22a-133k-3.
(3) Source: Massachusetts Department of Environmental Protection (MassDEP) Interim Final Vapor Intrusion Guidance WSC#-11-435, Dec 2011, Revised February 22, 2013, Appendix II (Sub-Slab Soil Gas Screening Values)
(-) = indicates no screening value or standard established for analyte.

Table 7
PCB Wipe Sampling Results
Robin Rug
125 Thames Street
Bristol, Rhode Island

Sample ID	Location	PCBs (ug/Wipe)		
		Aroclor-1254	Aroclor-1260	Total PCBs
WS-1	Elevator cables in Building #4 "Penthouse"	**0.25**	<0.20	**0.25**
WS-2	Elevator cables in Building #2 "Penthouse"	<0.20	<0.20	<0.20
WS-3	Elevator cables in Building #7 "Penthouse"	<0.20	<0.20	<0.20
WS-4	Elevator cables in Building #7A "Penthouse"	<0.20	**0.20**	**0.20**
CW-1	Concrete floor in NW corner of Building #4 basement	**0.32**	<0.20	**0.32**
CW-2	Concrete floor in Building #5 basement next to waste oil drum storage	<0.20	<0.20	<0.20
CW-3	Concrete floor in Building #3 basement next to leaking drum and former UST piping	<0.20	<0.20	<0.20
CW-4	Stained area on concrete floor in Building #2A	<0.20	<0.20	<0.20
CW-5	Concrete floor between base of back two transformers in basement of Building #1	<0.20	<0.20	<0.20
CW-6	Concrete slab in Building #6 near elevator	**0.27**	<0.20	**0.27**
CW-7	Concrete floor between base of first two transformers in basement of Building #1	**0.47**	<0.20	<0.20
CW-8	Metal floor in Building #7A in front of elevator doors	**0.40**	**0.35**	**0.75**
CW-9	Surface of transformer, near base, in basement of Building #1	<0.20	<0.20	<0.20
			RIDEM Reportable Notification	10 ug/100 cm2

Notes:
Samples collected on 6/30/2021.
Samples were analyzed by Con-Test, a Pace Analytical Laboratory.
Polychlorinated Biphenyls (PCBs) SW-846 8082A
Wipe Area = 10 cm x 10 cm square = 100 cm2.

Table 8

Summary of Soil DEC Exceedances

Robin Rug

125 Thames Street

Bristol, RI

Parcel No.	Current Use	Future Use	Location/Depth	Constituent	Soil Concentration (mg/kg) > RIDEM Standard	RIDEM Soil Standard [(1)]
10-42 Main Mill Parcel (Robin Rug)	Industrial/ Commercial	Residential	SB-6 2 feet	Fluoranthene	57	RDEC = 28 mg/kg
				Pyrene	37	RDEC = 13 mg/kg
				Benzo(a)anthracene	25	RDEC = 0.9 mg/kg; I/C DEC = 7.8 mg/kg
				Chrysene	22.0	RDEC = 0.4 mg/kg
				Benzo(b)fluoranthene	27.0	RDEC = 0.9 mg/kg; I/C DEC = 7.8 mg/kg
				Benzo(k)fluoranthene	7.8	RDEC = 0.9 mg/kg; I/C DEC = 0.8 mg/kg
				Benzo(a)pyrene	22.0	RDEC = 0.4 mg/kg; I/C DEC = 0.8 mg/kg
				Indeno[1,2,3-cd]pyrene	9.2	RDEC = 0.9 mg/kg; I/C DEC =7.8 mg/kg
				Dibenzo[a,h]anthracene	2.2	RDEC = 0.4 mg/kg; I/C DEC = 0.8 mg/kg
				Benzo[g,h,i]perylene	6.3	RDEC = 0.8 mg/kg
				TPH	800	RDEC = 500 mg/kg
				Lead	310	RDEC = 150 mg/kg
			SB-7 2 feet	Benzo(a)anthracene	4.6	RDEC = 28 mg/kg
				Chrysene	4.2	RDEC = 0.4 mg/kg
				Benzo(b)fluoranthene	6.1	RDEC = 0.9 mg/kg
				Benzo(k)fluoranthene	2.3	RDEC = 0.9 mg/kg
				Benzo(a)pyrene	4.6	RDEC = 0.4 mg/kg; I/C DEC = 0.8 mg/kg
				Indeno[1,2,3-cd]pyrene	1.3	RDEC = 0.9 mg/kg
				Benzo[g,h,i]perylene	0.98	RDEC = 0.8 mg/kg
				Lead	260	RDEC = 150 mg/kg
			TP-2 3 - 4 feet	Benzo(a)anthracene	1.30	RDEC = 28 mg/kg
				Chrysene	1.30	RDEC = 0.4 mg/kg
				Benzo(b)fluoranthene	1.60	RDEC = 0.9 mg/kg
				Benzo(a)pyrene	1.30	RDEC = 0.4 mg/kg; I/C DEC = 0.8 mg/kg
			TP-3 2 - 3 feet	Chrysene	0.75	RDEC = 0.4 mg/kg
				Benzo(b)fluoranthene	0.93	RDEC = 0.9 mg/kg
				Benzo(a)pyrene	0.65	RDEC = 0.4 mg/kg
				Arsenic	18	RDEC = 7.0 mg/kg
10-60 Main Mill Parcel (Robin Rug)	Industrial/ Commercial	Residential	TP-1 0 - 2 feet	Chrysene	0.69	RDEC = 0.4 mg/kg
				Benzo(a)pyrene	0.68	RDEC = 0.4 mg/kg
				Arsenic	8.4	RDEC = 7.0 mg/kg; I/C DEC = 7.0 mg/kg
10-43 Parking Lot Parcel	Residential	Industrial/ Commercial (Parking Lot for Condos)	SB-8 7 - 9 feet	Arsenic	8.5	RDEC = 7.0 mg/kg; I/C DEC = 7.0 mg/kg
			TP-6 9 - 10 feet	TPH	580	RDEC = 500 mg/kg
10-76 Parking Lot Parcel	Residential	Industrial/ Commercial (Parking Lot for Condos)	TP-7 0 - 3.5 feet	Lead	4,600	RDEC = 150 mg/kg; I/C DEC = 500 mg/kg

Note:

(1) Source: Rhode Island Department of Environmental Management (RIDEM) - Site Remediation Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, effective April 22, 2020. Subchapter 30, Section 1.9.2 - Soil Objectives Table 1 : Direct Exposure Criteria for Residential (REDEC) and Industrial/Commercial

FIGURES

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USGS Topographic Map
Bristol, RI-Mass
Revised 1955

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FIGURE 1

SITE LOCUS
ROBIN RUG MANUFACTURING FACILITY
125 THAMES STREET
BRISTOL, RI

PREPARED BY: SKP	CHECKED BY: BE
PROJECT NO. 95560.26	DATE: MARCH 2021

N

Church Street

Thames Street

Hope Street

Constitution Street

10-32

SB-10

Suspect asbestos piping insulation (in basement)

Transformer Area 1960 Sanborn Maps

Transformer Area 1947, 1960 Sanborn Maps

CW-1

SB-4

#4

WS-1

New Dye House

GPR Area 1

10-42

SB-6

GPR Area 2

SB-7

TP-15

#3

SB-2

SG-1

CW-3

SB-5/NB-2

Electrical Repair Shop, Machine Shop, Boiler Room, Dye Kettle Room 1947 Sanborn Maps

CW-2

#5

275-gal. No. 2 Oil

Coal Pile Area 1903 Sanborn Maps

TP-17

GZA-1

TP-3

#6

#8A

#1

CW-9

CW-5

CW-7

SB-3

SG-2

WS-2

~20-40 bags of suspect asbestos material (in basement)

CW-4

CW-6

#2

5,000-gal. No. 6 Oil Replaced in 1987

SG-3

TP-2

Historical Cistern Area: Former use unknown

GZA-2

SG-4

#7

WS-3

TP-1

10-60

Paint Shop 1896 Sanborn Map

Buried Gas Tank 12,000-gal. 1911, 1920 Sanborn Maps

TP-16

#7A

GZA-3

SG-5

10-61

CW-8

10-62

WS-4

10-73

Autostation 1911 Sanborn Map

GPR Area 4

Buried Gas Tank 230-gal. 1911

SB-1/NB-1 (Refusal at 4 feet bgs. with air vac)

10-41

TP-14

Qty. 2 Unknown Metal Pipe Stickups

TP-7 (two test pits in same location)

GPR Area 3

10-76

TP-8

10-44

SB-9

SB-8/NB-3

SB-11

TP-6

10-43

10-68

Former Greenhouses (1903-1960)

TP-10

TP-9

TP-4

TP-12

10-74

10-49

TP-5

TP-11

TP-13

10-50

0 40 80 160

Feet

1 inch = 80 feet

Notes:

1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

2. Aerial Imagery provided by ArcGIS online database from RHGIS Aerial Photographs, Spring 2018.

- Test Pit (TP-15 and TP-16 not excavated)
- PCB Wipe (elevator cable) WS-series (total = 4)
- PCB Wipe (concrete floor) CW-series (total =9)
- Soil Gas Vapor Point (SG-3 not installed)
- Soil Boring (total=11)
- Groundwater Monitoring Well
- Stained Floor
- Transformer(Qty. 3 out of use)
- Former UST Piping Into
- Sewer Manhole
- Pipe Stickups
- Waste Oil
- Leaking Oil
- Floor
- GPR Exploration Location
- Cable-Weighted
- Former Stock Dye Kettle
- Former Water
- Hydraulic
- Trench Around
- Water
- Active
- Former UST (20,000 gal. #6 oil)
- Former
- Parcel Boundary (Total = 14)

10-42 = Tax Map and Lot Number

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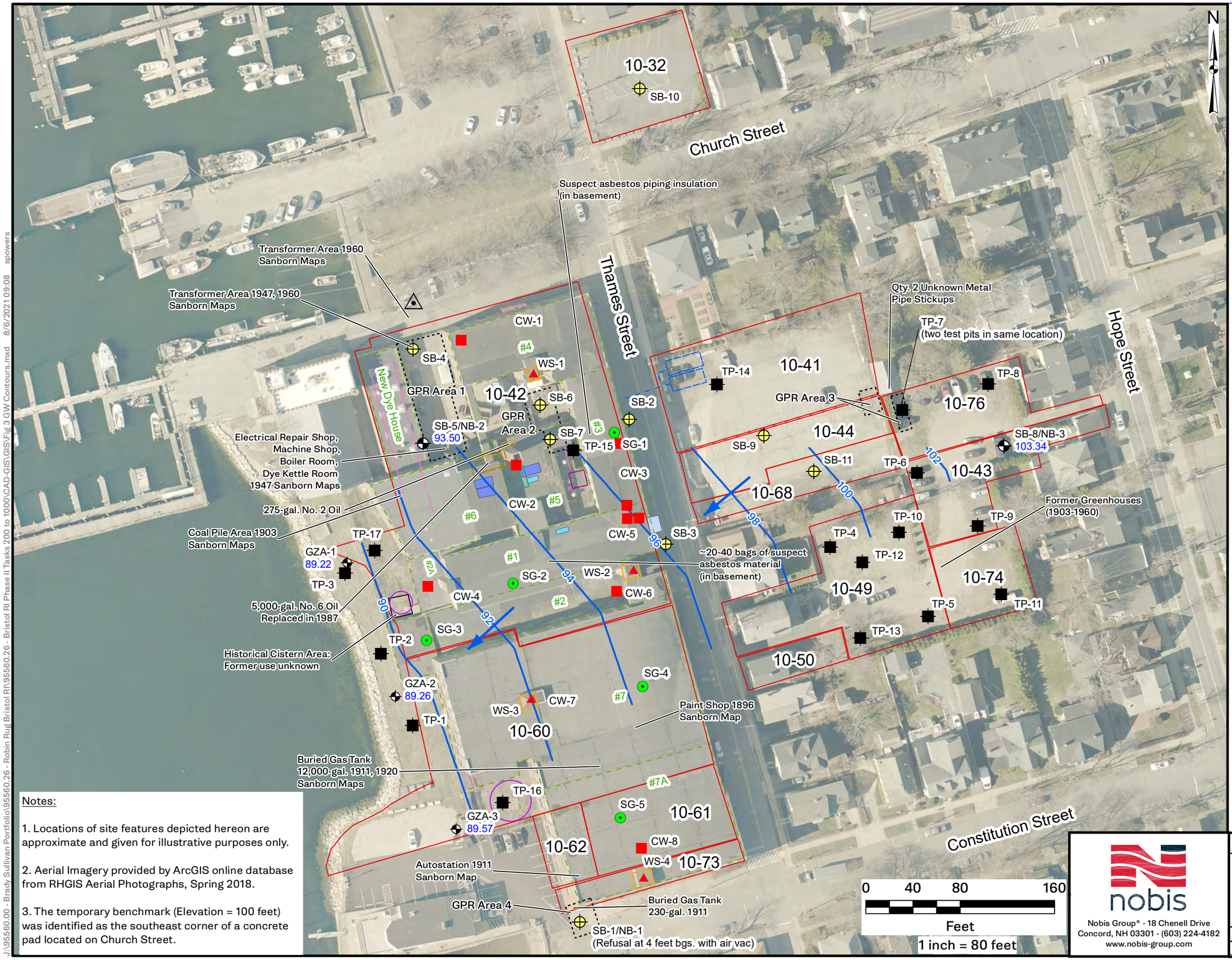
FIGURE 2

SITE PLAN
ROBIN RUG FACILITY
125 THAMES STREET
BRISTOL, RHODE ISLAND

PREPARED BY: SKP	CHECKED BY: BEE
PROJECT NO. 95560.26	DATE: AUGUST 2021

J:\95560.00 - Brady Sullivan Portfolio\95560.26 - Robin Rug Bristol RI\95560.26 - Bristol RI Phase II Tasks 200 to 1000\CAD-GIS\GIS\Fig 2 Site Plan.mxd 8/5/2021 16:51 spowers



Legend

- Test Pit (TP-15 and TP-16 not excavated)
- PCB Wipe (elevator cable) WS-series (total = 4)
- PCB Wipe (concrete floor) CW-series (total =9)
- Soil Gas Vapor Point (SG-3 not installed)
- Soil Boring
- Groundwater Monitoring Well with Groundwater Elevation 93.50 (on 6/30/21)
- Temporary Benchmark
- Floor Drains
- Groundwater Elevation Contour
- Groundwater Flow Direction
- GPR Exploration Location
- Cable-Weighted Elevator
- Former Stock Dye Kettle
- Former Water Tower
- Hydraulic Lift
- Trench Around Boiler
- Boilers
- Water Tanks
- Active AST
- Former UST (20,000 gal. #6 oil)
- Former AST
- Parcel Boundary (Total =14)

10-42 = Tax Map Parcel ID

Notes:

1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

2. Aerial Imagery provided by ArcGIS online database from RHGIS Aerial Photographs, Spring 2018.

3. The temporary benchmark (Elevation = 100 feet) was identified as the southeast corner of a concrete pad located on Church Street.

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FIGURE 3

GROUNDWATER POTENTIOMETRIC MAP
ROBIN RUG FACILITY
125 THAMES STREET
BRISTOL, RHODE ISLAND

PREPARED BY: SKP	CHECKED BY: BEE
PROJECT NO. 95560.26	DATE: AUGUST 2021

ATTACHMENTS

Eastern Analytical, Inc.

professional laboratory and drilling services

Bettina Eames
Nobis Group
18 Chenell Drive
Concord , NH 03301

Laboratory Report for:

Eastern Analytical, Inc. ID: 227592
Client Identification: Robin Rug | 095560.260
Date Received: 6/14/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Certifications:
Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director — 6.22.21 Date — 33 # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Temperature upon receipt (°C): 3.3 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled		Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
227592.01	SB-10 (10-12')	6/14/21	6/8/21	10:15	soil		Sample canceled at customer's request
227592.02	SB-8/NB-2 (7-9')	6/14/21	6/8/21	14:20	soil	96.4	Adheres to Sample Acceptance Policy
227592.03	SB-11 (8-10')	6/14/21	6/9/21	08:30	soil	90.1	Adheres to Sample Acceptance Policy
227592.04	SB-9 (10-12')	6/14/21	6/9/21	09:30	soil		Sample canceled at customer's request
227592.05	SB-4 (7-9')	6/14/21	6/9/21	12:25	soil	85.1	Adheres to Sample Acceptance Policy
227592.06	SB-5/NB-1 (10-12')	6/14/21	6/9/21	13:25	soil	89.2	Adheres to Sample Acceptance Policy
227592.07	SB-3 (7-9')	6/14/21	6/10/21	15:35	soil	88.3	Adheres to Sample Acceptance Policy
227592.08	SB-2 (12-14')	6/14/21	6/10/21	16:35	soil	87.5	Adheres to Sample Acceptance Policy
227592.09	SB-6 (2.0')	6/14/21	6/11/21	13:30	soil	86.2	Adheres to Sample Acceptance Policy
227592.1	SB-7 (2.0')	6/14/21	6/11/21	11:50	soil	84.1	Adheres to Sample Acceptance Policy
227592.11	Trip Blank	6/14/21	6/8/21	07:00	soil	100.0	Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- *Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.*
- *Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.*
- *Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.*
- *Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.*

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butyl Alcohol (TBA)	< 2	< 2	< 2	< 2
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1
Ethyl-t-butyl ether(ETBE)	< 0.1	< 0.1	< 0.1	< 0.1
Isopropyl ether(DIPE)	< 0.1	< 0.1	< 0.1	< 0.1
tert-amyl methyl ether(TAME)	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dioxane	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	**88 %R**	**87 %R**	**87 %R**	**89 %R**
1,2-Dichlorobenzene-d4 (surr)	**103 %R**	**103 %R**	**103 %R**	**102 %R**
Toluene-d8 (surr)	**96 %R**	**95 %R**	**96 %R**	**97 %R**
1,2-Dichloroethane-d4 (surr)	**102 %R**	**104 %R**	**104 %R**	**104 %R**

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butyl Alcohol (TBA)	< 2	< 2	< 2	< 2
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1
Ethyl-t-butyl ether(ETBE)	< 0.1	< 0.1	< 0.1	< 0.1
Isopropyl ether(DIPE)	< 0.1	< 0.1	< 0.1	< 0.1
tert-amyl methyl ether(TAME)	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dioxane	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05	< 0.05	**0.40**
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	**0.10**	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	**86 %R**	**86 %R**	**88 %R**	**91 %R**
1,2-Dichlorobenzene-d4 (surr)	**103 %R**	**103 %R**	**102 %R**	**101 %R**
Toluene-d8 (surr)	**95 %R**	**95 %R**	**95 %R**	**93 %R**
1,2-Dichloroethane-d4 (surr)	**105 %R**	**105 %R**	**105 %R**	**105 %R**

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank
Lab Sample ID:	227592.11
Matrix:	soil
Date Sampled:	6/8/21
Date Received:	6/14/21
Units:	mg/kg
Date of Analysis:	6/15/21
Analyst:	JAK
Method:	8260C
Dilution Factor:	1

Dichlorodifluoromethane	< 0.1
Chloromethane	< 0.1
Vinyl chloride	< 0.02
Bromomethane	< 0.1
Chloroethane	< 0.1
Trichlorofluoromethane	< 0.1
Diethyl Ether	< 0.05
Acetone	< 2
1,1-Dichloroethene	< 0.05
tert-Butyl Alcohol (TBA)	< 2
Methylene chloride	< 0.1
Carbon disulfide	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1
Ethyl-t-butyl ether(ETBE)	< 0.1
Isopropyl ether(DIPE)	< 0.1
tert-amyl methyl ether(TAME)	< 0.1
trans-1,2-Dichloroethene	< 0.05
1,1-Dichloroethane	< 0.05
2,2-Dichloropropane	< 0.05
cis-1,2-Dichloroethene	< 0.05
2-Butanone(MEK)	< 0.5
Bromochloromethane	< 0.05
Tetrahydrofuran(THF)	< 0.5
Chloroform	< 0.05
1,1,1-Trichloroethane	< 0.05
Carbon tetrachloride	< 0.05
1,1-Dichloropropene	< 0.05
Benzene	< 0.05
1,2-Dichloroethane	< 0.05
Trichloroethene	< 0.05
1,2-Dichloropropane	< 0.05
Dibromomethane	< 0.05
Bromodichloromethane	< 0.05
1,4-Dioxane	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5
cis-1,3-Dichloropropene	< 0.05
Toluene	< 0.05
trans-1,3-Dichloropropene	< 0.05
1,1,2-Trichloroethane	< 0.05
2-Hexanone	< 0.1
Tetrachloroethene	< 0.05
1,3-Dichloropropane	< 0.05
Dibromochloromethane	< 0.05
1,2-Dibromoethane(EDB)	< 0.02
Chlorobenzene	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank
Lab Sample ID:	227592.11
Matrix:	soil
Date Sampled:	6/8/21
Date Received:	6/14/21
Units:	mg/kg
Date of Analysis:	6/15/21
Analyst:	JAK
Method:	8260C
Dilution Factor:	1
Ethylbenzene	< 0.05
mp-Xylene	< 0.05
o-Xylene	< 0.05
Styrene	< 0.05
Bromoform	< 0.05
IsoPropylbenzene	< 0.05
Bromobenzene	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05
1,2,3-Trichloropropane	< 0.05
n-Propylbenzene	< 0.05
2-Chlorotoluene	< 0.05
4-Chlorotoluene	< 0.05
1,3,5-Trimethylbenzene	< 0.05
tert-Butylbenzene	< 0.05
1,2,4-Trimethylbenzene	< 0.05
sec-Butylbenzene	< 0.05
1,3-Dichlorobenzene	< 0.05
p-Isopropyltoluene	< 0.05
1,4-Dichlorobenzene	< 0.05
1,2-Dichlorobenzene	< 0.05
n-Butylbenzene	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05
1,3,5-Trichlorobenzene	< 0.05
1,2,4-Trichlorobenzene	< 0.05
Hexachlorobutadiene	< 0.05
Naphthalene	< 0.1
1,2,3-Trichlorobenzene	< 0.05
4-Bromofluorobenzene (surr)	**89 %R**
1,2-Dichlorobenzene-d4 (surr)	**101 %R**
Toluene-d8 (surr)	**95 %R**
1,2-Dichloroethane-d4 (surr)	**103 %R**

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/16/21	6/14/21	6/14/21	6/16/21
Date of Analysis:	6/17/21	6/15/21	6/15/21	6/17/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 0.34	< 0.4	< 0.4	< 0.4
Phenol	< 0.07	< 0.08	< 0.08	< 0.08
2-Chlorophenol	< 0.07	< 0.08	< 0.08	< 0.08
2,4-Dichlorophenol	< 0.07	< 0.08	< 0.08	< 0.08
2,4,5-Trichlorophenol	< 0.07	< 0.08	< 0.08	< 0.08
2,4,6-Trichlorophenol	< 0.07	< 0.08	< 0.08	< 0.08
Pentachlorophenol	< 0.34	< 0.4	< 0.4	< 0.4
2-Nitrophenol	< 0.34	< 0.4	< 0.4	< 0.4
4-Nitrophenol	< 0.34	< 0.4	< 0.4	< 0.4
2,4-Dinitrophenol	< 0.7	< 0.7	< 0.8	< 0.7
2-Methylphenol	< 0.07	< 0.08	< 0.08	< 0.08
3/4-Methylphenol	< 0.07	< 0.08	< 0.08	< 0.08
2,4-Dimethylphenol	< 0.34	< 0.4	< 0.4	< 0.4
4-Chloro-3-methylphenol	< 0.07	< 0.08	< 0.08	< 0.08
4,6-Dinitro-2-methylphenol	< 0.34	< 0.4	< 0.4	< 0.4
Benzoic Acid	< 3.4	< 4	< 4	< 4
N-Nitrosodimethylamine	< 0.07	< 0.08	< 0.08	< 0.08
n-Nitroso-di-n-propylamine	< 0.04	< 0.04	< 0.05	< 0.04
n-Nitrosodiphenylamine	< 0.07	< 0.08	< 0.08	< 0.08
bis(2-Chloroethyl)ether	< 0.07	< 0.08	< 0.08	< 0.08
bis(2-chloroisopropyl)ether	< 0.07	< 0.08	< 0.08	< 0.08
bis(2-Chloroethoxy)methane	< 0.07	< 0.08	< 0.08	< 0.08
1,3-Dichlorobenzene	< 0.07	< 0.08	< 0.08	< 0.08
Acetophenone	< 0.7	< 0.7	< 0.8	< 0.7
1,4-Dichlorobenzene	< 0.07	< 0.08	< 0.08	< 0.08
1,2-Dichlorobenzene	< 0.07	< 0.08	< 0.08	< 0.08
1,2,4-Trichlorobenzene	< 0.07	< 0.08	< 0.08	< 0.08
2-Chloronaphthalene	< 0.07	< 0.08	< 0.08	< 0.08
4-Chlorophenyl-phenylether	< 0.07	< 0.08	< 0.08	< 0.08
4-Bromophenyl-phenylether	< 0.07	< 0.08	< 0.08	< 0.08
Hexachloroethane	< 0.07	< 0.08	< 0.08	< 0.08
Hexachlorobutadiene	< 0.07	< 0.08	< 0.08	< 0.08
Hexachlorocyclopentadiene	< 0.34	< 0.4	< 0.4	< 0.4
Hexachlorobenzene	< 0.07	< 0.08	< 0.08	< 0.08
4-Chloroaniline	< 0.07	< 0.08	< 0.08	< 0.08
2,3-Dichloroaniline	< 0.07	< 0.08	< 0.08	< 0.08
2-Nitroaniline	< 0.34	< 0.4	< 0.4	< 0.4
3-Nitroaniline	< 0.34	< 0.4	< 0.4	< 0.4
4-Nitroaniline	< 0.34	< 0.4	< 0.4	< 0.4
Aniline	< 0.07	< 0.08	< 0.08	< 0.08
Benzyl alcohol	< 0.7	< 0.7	< 0.8	< 0.7
Nitrobenzene	< 0.07	< 0.08	< 0.08	< 0.08
Isophorone	< 0.07	< 0.08	< 0.08	< 0.08
2,4-Dinitrotoluene	< 0.14	< 0.2	< 0.2	< 0.2
2,6-Dinitrotoluene	< 0.14	< 0.2	< 0.2	< 0.2
Benzidine (estimated)	< 0.34	< 0.4	< 0.4	< 0.4
3,3'-Dichlorobenzidine	< 0.07	< 0.08	< 0.08	< 0.08

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/16/21	6/14/21	6/14/21	6/16/21
Date of Analysis:	6/17/21	6/15/21	6/15/21	6/17/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 0.34	< 0.4	< 0.4	< 0.4
Azobenzene	< 0.07	< 0.08	< 0.08	< 0.08
Carbazole	< 0.07	< 0.08	< 0.08	< 0.08
Dimethylphthalate	< 0.07	< 0.08	< 0.08	< 0.08
Diethylphthalate	< 0.34	< 0.4	< 0.4	< 0.4
Di-n-butylphthalate	< 0.34	< 0.4	< 0.4	< 0.4
Butylbenzylphthalate	< 0.34	< 0.4	< 0.4	< 0.4
bis(2-Ethylhexyl)phthalate	< 0.34	< 0.4	< 0.4	< 0.4
Di-n-octylphthalate	< 0.34	< 0.4	< 0.4	< 0.4
Dibenzofuran	< 0.07	< 0.08	< 0.08	< 0.08
Naphthalene	< 0.07	< 0.08	< 0.08	< 0.08
2-Methylnaphthalene	< 0.07	< 0.08	< 0.08	< 0.08
1-Methylnaphthalene	< 0.07	< 0.08	< 0.08	< 0.08
Acenaphthylene	< 0.07	< 0.08	< 0.08	< 0.08
Acenaphthene	< 0.07	< 0.08	< 0.08	< 0.08
Fluorene	< 0.07	< 0.08	< 0.08	< 0.08
Phenanthrene	< 0.07	< 0.08	< 0.08	**0.11**
Anthracene	< 0.07	< 0.08	< 0.08	< 0.08
Fluoranthene	< 0.07	< 0.08	< 0.08	**0.14**
Pyrene	< 0.07	< 0.08	< 0.08	**0.12**
Benzo[a]anthracene	< 0.07	< 0.08	< 0.08	< 0.08
Chrysene	< 0.07	< 0.08	< 0.08	< 0.08
Benzo[b]fluoranthene	< 0.07	< 0.08	< 0.08	< 0.08
Benzo[k]fluoranthene	< 0.07	< 0.08	< 0.08	< 0.08
Benzo[a]pyrene	< 0.07	< 0.08	< 0.08	< 0.08
Indeno[1,2,3-cd]pyrene	< 0.07	< 0.08	< 0.08	< 0.08
Dibenz[a,h]anthracene	< 0.07	< 0.08	< 0.08	< 0.08
Benzo[g,h,i]perylene	< 0.07	< 0.08	< 0.08	< 0.08
n-Decane	< 0.34	< 0.4	< 0.4	< 0.4
n-Octadecane	< 0.34	< 0.4	< 0.4	< 0.4
2-Fluorophenol (surr)	**68 %R**	**58 %R**	**68 %R**	**62 %R**
Phenol-d6 (surr)	**71 %R**	**61 %R**	**72 %R**	**67 %R**
2,4,6-Tribromophenol (surr)	**84 %R**	**74 %R**	**88 %R**	**83 %R**
Nitrobenzene-D5 (surr)	**77 %R**	**67 %R**	**77 %R**	**70 %R**
2-Fluorobiphenyl (surr)	**80 %R**	**70 %R**	**83 %R**	**75 %R**
p-Terphenyl-D14 (surr)	**82 %R**	**76 %R**	**83 %R**	**76 %R**

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/16/21	6/16/21	6/16/21	6/14/21
Date of Analysis:	6/17/21	6/17/21	6/17/21	6/15/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	6	1
alpha-Terpineol	< 0.4	< 0.4	< 2	< 0.4
Phenol	< 0.08	< 0.08	< 0.4	< 0.08
2-Chlorophenol	< 0.08	< 0.08	< 0.4	< 0.08
2,4-Dichlorophenol	< 0.08	< 0.08	< 0.4	< 0.08
2,4,5-Trichlorophenol	< 0.08	< 0.08	< 0.4	< 0.08
2,4,6-Trichlorophenol	< 0.08	< 0.08	< 0.4	< 0.08
Pentachlorophenol	< 0.4	< 0.4	< 2	< 0.4
2-Nitrophenol	< 0.4	< 0.4	< 2	< 0.4
4-Nitrophenol	< 0.4	< 0.4	< 2	< 0.4
2,4-Dinitrophenol	< 0.8	< 0.8	< 4	< 0.8
2-Methylphenol	< 0.08	< 0.08	< 0.4	< 0.08
3/4-Methylphenol	< 0.08	< 0.08	< 0.4	< 0.08
2,4-Dimethylphenol	< 0.4	< 0.4	< 2	< 0.4
4-Chloro-3-methylphenol	< 0.08	< 0.08	< 0.4	< 0.08
4,6-Dinitro-2-methylphenol	< 0.4	< 0.4	< 2	< 0.4
Benzoic Acid	< 4	< 4	< 20	< 4
N-Nitrosodimethylamine	< 0.08	< 0.08	< 0.4	< 0.08
n-Nitroso-di-n-propylamine	< 0.04	< 0.05	< 0.2	< 0.05
n-Nitrosodiphenylamine	< 0.08	< 0.08	< 0.4	< 0.08
bis(2-Chloroethyl)ether	< 0.08	< 0.08	< 0.4	< 0.08
bis(2-chloroisopropyl)ether	< 0.08	< 0.08	< 0.4	< 0.08
bis(2-Chloroethoxy)methane	< 0.08	< 0.08	< 0.4	< 0.08
1,3-Dichlorobenzene	< 0.08	< 0.08	< 0.4	< 0.08
Acetophenone	< 0.8	< 0.8	< 4	< 0.8
1,4-Dichlorobenzene	< 0.08	< 0.08	< 0.4	< 0.08
1,2-Dichlorobenzene	< 0.08	< 0.08	< 0.4	< 0.08
1,2,4-Trichlorobenzene	< 0.08	< 0.08	< 0.4	< 0.08
2-Chloronaphthalene	< 0.08	< 0.08	< 0.4	< 0.08
4-Chlorophenyl-phenylether	< 0.08	< 0.08	< 0.4	< 0.08
4-Bromophenyl-phenylether	< 0.08	< 0.08	< 0.4	< 0.08
Hexachloroethane	< 0.08	< 0.08	< 0.4	< 0.08
Hexachlorobutadiene	< 0.08	< 0.08	< 0.4	< 0.08
Hexachlorocyclopentadiene	< 0.4	< 0.4	< 2	< 0.4
Hexachlorobenzene	< 0.08	< 0.08	< 0.4	< 0.08
4-Chloroaniline	< 0.08	< 0.08	< 0.4	< 0.08
2,3-Dichloroaniline	< 0.08	< 0.08	< 0.4	< 0.08
2-Nitroaniline	< 0.4	< 0.4	< 2	< 0.4
3-Nitroaniline	< 0.4	< 0.4	< 2	< 0.4
4-Nitroaniline	< 0.4	< 0.4	< 2	< 0.4
Aniline	< 0.08	< 0.08	< 0.4	< 0.08
Benzyl alcohol	< 0.8	< 0.8	< 4	< 0.8
Nitrobenzene	< 0.08	< 0.08	< 0.4	< 0.08
Isophorone	< 0.08	< 0.08	< 0.4	< 0.08
2,4-Dinitrotoluene	< 0.2	< 0.2	< 0.8	< 0.2
2,6-Dinitrotoluene	< 0.2	< 0.2	< 0.8	< 0.2
Benzidine (estimated)	< 0.4	< 0.4	< 2	< 0.4
3,3'-Dichlorobenzidine	< 0.08	< 0.08	< 0.4	< 0.08

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/16/21	6/16/21	6/16/21	6/14/21
Date of Analysis:	6/17/21	6/17/21	6/17/21	6/15/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	6	1
Pyridine	< 0.4	< 0.4	< 2	< 0.4
Azobenzene	< 0.08	< 0.08	< 0.4	< 0.08
Carbazole	< 0.08	< 0.08	**3.1**	**0.57**
Dimethylphthalate	< 0.08	< 0.08	< 0.4	< 0.08
Diethylphthalate	< 0.4	< 0.4	< 2	< 0.4
Di-n-butylphthalate	< 0.4	< 0.4	< 2	< 0.4
Butylbenzylphthalate	< 0.4	< 0.4	< 2	< 0.4
bis(2-Ethylhexyl)phthalate	< 0.4	< 0.4	< 2	< 0.4
Di-n-octylphthalate	< 0.4	< 0.4	< 2	< 0.4
Dibenzofuran	< 0.08	< 0.08	**2.2**	**0.31**
Naphthalene	< 0.08	< 0.08	**2.6**	**0.35**
2-Methylnaphthalene	< 0.08	< 0.08	**0.73**	**0.12**
1-Methylnaphthalene	< 0.08	< 0.08	**0.55**	**0.13**
Acenaphthylene	< 0.08	< 0.08	**2.8**	**0.57**
Acenaphthene	< 0.08	< 0.08	**2.4**	**0.41**
Fluorene	< 0.08	< 0.08	**2.6**	**0.40**
Phenanthrene	< 0.08	< 0.08	**30**	**4.9**
Anthracene	< 0.08	< 0.08	**8.1**	**1.4**
Fluoranthene	< 0.08	< 0.08	**57**	**7.2**
Pyrene	< 0.08	< 0.08	**37**	**6.8**
Benzo[a]anthracene	< 0.08	< 0.08	**25**	**4.6**
Chrysene	< 0.08	< 0.08	**22**	**4.2**
Benzo[b]fluoranthene	< 0.08	< 0.08	**27**	**6.1**
Benzo[k]fluoranthene	< 0.08	< 0.08	**7.8**	**2.3**
Benzo[a]pyrene	< 0.08	< 0.08	**22**	**4.6**
Indeno[1,2,3-cd]pyrene	< 0.08	< 0.08	**9.2**	**1.3**
Dibenz[a,h]anthracene	< 0.08	< 0.08	**2.2**	**0.31**
Benzo[g,h,i]perylene	< 0.08	< 0.08	**6.3**	**0.98**
n-Decane	< 0.4	< 0.4	< 2	< 0.4
n-Octadecane	< 0.4	< 0.4	< 2	< 0.4
2-Fluorophenol (surr)	**57 %R**	**61 %R**	**59 %R**	**66 %R**
Phenol-d6 (surr)	**62 %R**	**65 %R**	**64 %R**	**70 %R**
2,4,6-Tribromophenol (surr)	**80 %R**	**79 %R**	**83 %R**	**88 %R**
Nitrobenzene-D5 (surr)	**62 %R**	**69 %R**	**68 %R**	**74 %R**
2-Fluorobiphenyl (surr)	**70 %R**	**74 %R**	**76 %R**	**81 %R**
p-Terphenyl-D14 (surr)	**79 %R**	**78 %R**	**80 %R**	**83 %R**

Deviations from the Report:
SB-6 (2.0'): Parameter: Fluoranthene Date of Analysis: 6/18/2021 Dilution Factor: 30

SB-6 (2.0'): Detection limits elevated due to sample matrix causing internal standard failure in initial extraction.

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/15/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JLB	JLB	JLB	JLB
Method:	8100mod	8100mod	8100mod	8100mod
Dilution Factor:	1	1	1	1
TPH (C9-C40)	< 30	< 30	< 30	**90**
p-Terphenyl-D14 (surr)	**78 %R**	**77 %R**	**77 %R**	**85 %R**

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/15/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JLB	JLB	JLB	JLB
Method:	8100mod	8100mod	8100mod	8100mod
Dilution Factor:	1	1	11	2
TPH (C9-C40)	< 30	< 30	**800**	**190**
p-Terphenyl-D14 (surr)	**55 %R**	**69 %R**	**DOR**	**118 %R**

DOR: Diluted out of range.

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
% Solid:	96.4	90.1	85.1	89.2
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/14/21	6/14/21	6/14/21	6/14/21
Date of Analysis:	6/18/21	6/18/21	6/18/21	6/18/21
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8081B	8081B	8081B	8081B
Dilution Factor:	1	1	1	1
Aldrin	< 0.005	< 0.005	< 0.006	< 0.006
alpha-BHC	< 0.005	< 0.005	< 0.006	< 0.006
beta-BHC	< 0.005	< 0.005	< 0.006	< 0.006
Lindane(gamma-BHC)	< 0.005	< 0.005	< 0.006	< 0.006
delta-BHC	< 0.005	< 0.005	< 0.006	< 0.006
Chlordane	< 0.02	< 0.02	< 0.02	< 0.02
4,4'-DDT	< 0.005	< 0.005	< 0.006	< 0.006
4,4'-DDE	< 0.005	< 0.005	< 0.006	< 0.006
4,4'-DDD	< 0.005	< 0.005	< 0.006	< 0.006
Dieldrin	< 0.005	< 0.005	< 0.006	< 0.006
Endosulfan I	< 0.005	< 0.005	< 0.006	< 0.006
Endosulfan II	< 0.005	< 0.005	< 0.006	< 0.006
Endosulfan Sulfate	< 0.005	< 0.005	< 0.006	< 0.006
Endrin	< 0.005	< 0.005	< 0.006	< 0.006
Endrin Aldehyde	< 0.005	< 0.005	< 0.006	< 0.006
Endrin Ketone	< 0.005	< 0.005	< 0.006	< 0.006
Heptachlor	< 0.005	< 0.005	< 0.006	< 0.006
Heptachlor Epoxide	< 0.005	< 0.005	< 0.006	< 0.006
Methoxychlor	< 0.005	< 0.005	< 0.006	< 0.006
Toxaphene	< 0.05	< 0.05	< 0.06	< 0.06
TMX (surr)	**64 %R**	**57 %R**	**62 %R**	**61 %R**
DCB (surr)	**46 %R**	**45 %R**	**41 %R**	**41 %R**

Clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
% Solid:	88.3	87.5	86.2	84.1
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/14/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/18/21	6/18/21	6/18/21	6/18/21
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8081B	8081B	8081B	8081B
Dilution Factor:	1	1	1	1
Aldrin	< 0.006	< 0.006	< 0.006	< 0.006
alpha-BHC	< 0.006	< 0.006	< 0.006	< 0.006
beta-BHC	< 0.006	< 0.006	< 0.006	< 0.006
Lindane(gamma-BHC)	< 0.006	< 0.006	< 0.006	< 0.006
delta-BHC	< 0.006	< 0.006	< 0.006	< 0.006
Chlordane	< 0.02	< 0.02	< 0.02	< 0.02
4,4'-DDT	< 0.006	< 0.006	< 0.006	< 0.006
4,4'-DDE	< 0.006	< 0.006	< 0.006	< 0.006
4,4'-DDD	< 0.006	< 0.006	< 0.006	< 0.006
Dieldrin	< 0.006	< 0.006	< 0.006	< 0.006
Endosulfan I	< 0.006	< 0.006	< 0.006	< 0.006
Endosulfan II	< 0.006	< 0.006	< 0.006	< 0.006
Endosulfan Sulfate	< 0.006	< 0.006	< 0.006	< 0.006
Endrin	< 0.006	< 0.006	< 0.006	< 0.006
Endrin Aldehyde	< 0.006	< 0.006	< 0.006	< 0.006
Endrin Ketone	< 0.006	< 0.006	< 0.006	< 0.006
Heptachlor	< 0.006	< 0.006	< 0.006	< 0.006
Heptachlor Epoxide	< 0.006	< 0.006	< 0.006	< 0.006
Methoxychlor	< 0.006	< 0.006	< 0.006	< 0.006
Toxaphene	< 0.06	< 0.06	< 0.06	< 0.06
TMX (surr)	**57 %R**	**57 %R**	**36 %R**	**39 %R**
DCB (surr)	**45 %R**	**43 %R**	**35 %R**	**33 %R**

Clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06
Matrix:	soil	soil	soil	soil
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
% Solid:	96.4	90.1	85.1	89.2
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/14/21	6/14/21	6/14/21	6/14/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**94 %R**	**85 %R**	**99 %R**	**98 %R**
DCB (surr)	**98 %R**	**97 %R**	**99 %R**	**84 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
% Solid:	88.3	87.5	86.2	84.1
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/14/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/16/21	6/16/21	6/16/21
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**97 %R**	**85 %R**	**51 %R**	**56 %R**
DCB (surr)	**108 %R**	**96 %R**	**52 %R**	**56 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10 -12')					
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06					
Matrix:	soil	soil	soil	soil					
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21		Analysis			
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21	**Units**	**Date**	**Time**	**Method**	**Analyst**
Cyanide Total	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	06/16/21	8:55	9010/9014	RB

Sample ID:	SB-3 (7-9')	SB-2 (12-14')	SB-6 (2.0')	SB-7 (2.0')					
Lab Sample ID:	227592.07	227592.08	227592.09	227592.1					
Matrix:	soil	soil	soil	soil					
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21		Analysis			
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21	**Units**	**Date**	**Time**	**Method**	**Analyst**
Cyanide Total	< 0.5	< 0.5	**0.54**	< 0.5	mg/kg	06/16/21	8:55	9010/9014	RB

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-8/NB-2 (7-9')	SB-11 (8-10')	SB-4 (7-9')	SB-5/NB-1 (10-12')					
Lab Sample ID:	227592.02	227592.03	227592.05	227592.06					
Matrix:	soil	soil	soil	soil					
Date Sampled:	6/8/21	6/9/21	6/9/21	6/9/21	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21					
Arsenic	**8.5**	**4.5**	**1.5**	**4.2**	SolTotDry	mg/kg	6/15/21	6020	DS
Barium	**16**	**18**	**2.3**	**8.5**	SolTotDry	mg/kg	6/15/21	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS
Chromium	**12**	**12**	**6.1**	**24**	SolTotDry	mg/kg	6/15/21	6020	DS
Lead	**6.6**	**7.7**	**2.3**	**19**	SolTotDry	mg/kg	6/15/21	6020	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	6/15/21	6020	DS
Selenium	**0.57**	< 0.5	< 0.5	**0.52**	SolTotDry	mg/kg	6/15/21	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS

Sample ID:	SB-3 (7-9')	SB-2 (12-14')						
Lab Sample ID:	227592.07	227592.08						
Matrix:	soil	soil						
Date Sampled:	6/10/21	6/10/21	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**	
Date Received:	6/14/21	6/14/21						
Arsenic	**4.1**	**4.0**	SolTotDry	mg/kg	6/15/21	6020	DS	
Barium	**19**	**11**	SolTotDry	mg/kg	6/15/21	6020	DS	
Cadmium	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS	
Chromium	**14**	**7.7**	SolTotDry	mg/kg	6/15/21	6020	DS	
Lead	**6.7**	**5.7**	SolTotDry	mg/kg	6/15/21	6020	DS	
Mercury	< 0.1	< 0.1	SolTotDry	mg/kg	6/15/21	6020	DS	
Selenium	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS	
Silver	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS	

LABORATORY REPORT

EAI ID#: **227592**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	SB-6 (2.0')	SB-7 (2.0')					
Lab Sample ID:	227592.09	227592.1					
Matrix:	soil	soil					
Date Sampled:	6/11/21	6/11/21					
Date Received:	6/14/21	6/14/21					
			Analytical Matrix	**Units**	**Date of Analysis**	**Method**	**Analyst**
Arsenic	**6.1**	**4.7**	SolTotDry	mg/kg	6/15/21	6020	DS
Barium	**92**	**62**	SolTotDry	mg/kg	6/15/21	6020	DS
Cadmium	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS
Chromium	**25**	**17**	SolTotDry	mg/kg	6/15/21	6020	DS
Lead	**310**	**260**	SolTotDry	mg/kg	6/15/21	6020	DS
Mercury	**0.60**	**0.16**	SolTotDry	mg/kg	6/15/21	6020	DS
Selenium	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS
Silver	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS
Lead	< 0.5	< 0.5	TCLPsolid	mg/L	6/18/21	6020	DS

PHOENIX
Environmental Laboratories, Inc.

Tuesday, June 22, 2021

Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Project ID: 227592
SDG ID: GCI54779
Sample ID#s: CI54779 - CI54782

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 22, 2021

SDG I.D.: GCI54779

Project ID: 227592

Client Id	Lab Id	Matrix
SB-4 (7-9`)	CI54779	SOIL
SB-6 (2.0`)	CI54780	SOIL
SB-7 (2.0`)	CI54781	SOIL
SB-5/NB-1 (10-12`)	CI54782	SOIL

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 22, 2021

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/21	12:25
Location Code:	EASTANAL-NH	Received by:	SW	06/15/21	11:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	55122				

Laboratory Data

SDG ID: GCI54779
Phoenix ID: CI54779

Project ID: 227592
Client ID: SB-4 (7-9`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		06/15/21	AR	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.43	0.43	mg/Kg	1	06/17/21	BJA	SW7196A
pH at 25C - Soil	7.15	1.00	pH Units	1	06/16/21 12:37	DJ/EG	SW846 9045D
Redox Potential	231		mV	1	06/16/21	DJ/EG	SM2580B-09

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 22, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 22, 2021

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/11/21	13:30
Location Code:	EASTANAL-NH	Received by:	SW	06/15/21	11:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	55122				

Laboratory Data

SDG ID: GCI54779
Phoenix ID: CI54780

Project ID: 227592
Client ID: SB-6 (2.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		06/15/21	AR	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.44	0.44	mg/Kg	1	06/17/21	BJA	SW7196A
pH at 25C - Soil	7.38	1.00	pH Units	1	06/16/21 12:37	DJ/EG	SW846 9045D
Redox Potential	314		mV	1	06/16/21	DJ/EG	SM2580B-09

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 22, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 22, 2021

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/11/21	11:50
Location Code:	EASTANAL-NH	Received by:	SW	06/15/21	11:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	55122				

Laboratory Data

SDG ID: GCI54779
Phoenix ID: CI54781

Project ID: 227592
Client ID: SB-7 (2.0`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		06/15/21	AR	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.44	0.44	mg/Kg	1	06/18/21	BJA/QH	SW7196A
pH at 25C - Soil	7.93	1.00	pH Units	1	06/16/21 12:37	DJ/EG	SW846 9045D
Redox Potential	338		mV	1	06/16/21	DJ/EG	SM2580B-09

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 22, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 22, 2021

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/21	13:25
Location Code:	EASTANAL-NH	Received by:	SW	06/15/21	11:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	55122				

Laboratory Data

SDG ID: GCI54779
Phoenix ID: CI54782

Project ID: 227592
Client ID: SB-5/NB-1 (10-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		06/15/21	AR	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.41	0.41	mg/Kg	1	06/18/21	BJA/QH	SW7196A
pH at 25C - Soil	7.39	1.00	pH Units	1	06/16/21 12:37	DJ/EG	SW846 9045D
Redox Potential	320		mV	1	06/16/21	DJ/EG	SM2580B-09

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 22, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 22, 2021

QA/QC Data

SDG I.D.: GCI54779

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 579920 (mg/kg), QC Sample No: CI54469 40X (CI54779, CI54780)														
Chromium, Hexavalent - Soil														
Chromium, Hexavalent	BRL	0.40	<0.39	<0.42	NC	94.1						85 - 115	30	
Chromium, Hexavalent (Ins)						95.1			92.8			85 - 115	30	
Chromium, Hexavalent (Sol)						93.4			90.8			85 - 115	30	
QA/QC Batch 580132 (mg/kg), QC Sample No: CI57461 40X (CI54781, CI54782)														
Chromium, Hexavalent - Soil														
Chromium, Hexavalent	BRL	0.40	<0.42	<0.42	NC	95.1						85 - 115	30	
Chromium, Hexavalent (Ins)						103			94.3			85 - 115	30	
Chromium, Hexavalent (Sol)						92.2			56.7			85 - 115	30	m

m = This parameter is outside laboratory MS/MSD specified recovery limits.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 22, 2021

QA/QC Data

SDG I.D.: GCI54779

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 579781 (PH), QC Sample No: CI54731 (CI54779, CI54780, CI54781, CI54782)													
pH at 25C - Soil			7.50	7.46	0.50	99.7						85 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 22, 2021

None

State: RI

Sample Criteria Exceedances Report

GCI54779 - EASTANAL-NH

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
*** No Data to Display ***								

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

June 22, 2021

SDG I.D.: GCI54779

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

CHAIN-OF-CUSTODY RECORD

4.7°wc
1Q

Eastern Analytical, Inc.
professional laboratory and drilling services

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EAI ID# 227592 Page 1

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
SB-4 (7-9')	6/9/2021 12:25	soil	Subcontract - Hexavalent Chromium Soil 3060/7196	54779
SB-6 (2.0')	6/11/2021 13:30	soil	Subcontract - Hexavalent Chromium Soil 3060/7196	54780
SB-7 (2.0')	6/11/2021 11:50	soil	Subcontract - Hexavalent Chromium Soil 3060/7196	54781
SB-5/NB-1 (10-12')	6/9/2021 13:25	soil	Subcontract - Hexavalent Chromium Soil 3060/7196	54782

Rush - 1 802 jar per sample.

EAI ID# 227592 **Project State: RI**

Project ID: 0

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester , CT 06040
Account #
Phone # (860) 645-1102

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

☒ A ☐ A+ ☐ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PO #:55122 **EAI ID# 227592**

Data Deliverable (circle)

Excel NH EMD EQuIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Relinquished by	Date/Time	Received by
[signature]	6/14/21	1500 UPS
UPS [signature]	6/15/21	11:33

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301 *Phone: (603)228-0525* *1-800-287-0525* *customerservice@easternanalytical.com*

CHAIN-OF-CUSTODY RECORD

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

227592

32

SAMPLE I.D. (BEE 6/14/21)	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 8260 / 624 VTICS 1,4 DIOXANE	SVOC: 8270 625 SVTICS EDB DBCP ABN A BN PAH	SVOC: PHTHALATE L1 L2	SVOC: PEST 608 PCB 608 PEST 8081 PCB 8082	METALS: TOTAL METALS (LIST BELOW) RCRA	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	OTHER: RCRA 8 Metals	OTHER: Hexavalent Cr	# OF CONTAINERS	NOTES MeOH VIAL #	
~~SB-10 (10-12')~~	~~6/8/21 1015~~	~~S~~	~~G~~	✓	✓	✓	✓		✓	✓	✓	5	~~53817~~	DNA BEE 6/14/21
SB-8/NB-2 (?')	6/8/21 1420	S	G	✓	✓	✓	✓		✓	✓	[scribbled out]	5	53822	
SB-11 (8-10')	6/9/21 0830	S	G	✓	✓	✓	✓		✓		[scribbled out]	5	53828	
~~SB-9 (10-12')~~	~~6/9/21 0930~~	~~S~~	~~G~~	✓	✓	✓	✓		✓	✓	✓	5	~~53831~~	DNA BEE 6/14/21
SB-4 (7-9')	6/9/21 1225	S	G	✓	✓	✓	✓		✓	✓	✓	5	53823	
SB-5/NB-1 (10-12')	6/9/21 1325	S	G	✓	✓	✓	✓		✓	✓	✓	5	53833	
SB-3 (7-9')	6/10/21 1535	S	G	✓	✓	✓	✓		✓	✓	[scribbled out]	5	53829	
SB-2 (12-14')	6/10/21 1635	S	G	✓	✓	✓	✓		✓	✓	[scribbled out]	5	53821	
SB-6 (2.0')	6/11/21 1330	S	G	✓	✓	✓	✓		✓	✓	✓	5	53832	*TCLP Lead per client 6/16/21
SB-7 (2.0')	6/11/21 1150	S	G	✓	✓	✓	✓		✓	✓	✓	5	53830	
MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER														
PRESERVATIVE: H-HCL; N-HNO3; S-H2SO4; Na-NaOH; M-MEOH				M										

PROJECT MANAGER: Bettina Eames
COMPANY: Nobis
ADDRESS: 18 Chenell Drive
CITY: Concord STATE: NH ZIP: 03301
PHONE: (603) 224-4182 EXT.:
FAX:
E-MAIL: beames@nobis-group.com
SITE NAME: Robin Rug
PROJECT #: 095560.200
STATE: NH MA ME VT (OTHER) RI
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:
QUOTE #: PO #:

DATE NEEDED: Standard TAT
QA/QC REPORTING LEVEL: Rhode Island — A B C OR MA MCP
REPORTING OPTIONS: PRELIMS: YES OR (NO)
ELECTRONIC OPTIONS: (E-MAIL) (PDF) EQUIS (EXCEL)
TEMP. 3.3 °C ICE? (YES) NO

SAMPLER(S): S. Powers

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
[signature]	6/11/21	1910	[signature]
[signature]	6/14/21	9:04	[signature]
[signature]	6/14/21	0835	[signature]

(8716 noted: 6/14/21 8716)

METALS: (8 RCRA) 13 PP Fe, Mn Pb, Cu
OTHER METALS:
SAMPLES FIELD FILTERED? ☐ YES ☐ NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)
* DNA = Do Not Analyze
Cr+6 samples SB-5/NB-1, SB-4, SB-6, SB-7 only
BEE 6/14/21
SITE HISTORY: Textile Mill
SUSPECTED CONTAMINATION:
FIELD READINGS: <10 ppm PID

CHAIN-OF-CUSTODY RECORD

\# 227592

33

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 BTEX / 524.2 MTBE only	VOC: 8260 624 VTICs 1,4 Dioxane	VOC: 8021 BTEX HALOS	VOC: 8015 GRO MAVPH	SVOC: 8270 625 SVTICs EDB DBCP ABN A BN PAH	SVOC: TPH8100 L1 L2	SVOC: 8015 DRO MAEPH	SVOC: PEST 608 PCB 608 PEST 8081 PCB 8082	SVOC: Oil & Grease 1664 TPH 1664	TCLP: TCLP 1311 ABN Metals VOC PEST Herb	Metals: Dissolved Metals (list below)	Metals: Total Metals (list below)	Inorganics: TS TSS TDS Spec. Cond.	Inorganics: Br Cl F SO_4 NO_2 NO_3 NO_3NO_2	Inorganics: BOD CBOD T. Alk	Inorganics: TKN NH_3 T. Phos O. Phos	Inorganics: pH T. Res. Chlorine	Inorganics: COD Phenols TOC DOC	Inorganics: Total Cyanide Total Sulfide	Inorganics: Reactive Cyanide Reactive Sulfide Flashpoint Ignitability	Micro: Total Coliform E. Coli Fecal Coliform	Micro: Enterococci Heterotrophic Plate Count	Other	Other	Other	# of Containers	Notes MeOH Vial #
Trip Blank	6/8/21 0700	SW	G		✓																								1	53820
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water / Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH					M																									

Project Manager: Bettina Eames
Company: Nobis
Address: 18 Chenell Drive
City: Concord State: NH Zip: 03301
Phone: (603) 224-4182 Ext:
Fax:
E-Mail: beames@nobis-group.com
Site Name: Robin Rug
Project #: 095560.260
State: NH MA ME VT (Other) RI
Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: PO #:

Date Needed: standard TAT

Temp. 3.3 °C
Ice? (Yes) No

QA/QC Reporting Level A B C or MA MCP

Reporting Options: Prelims: Yes or (No)

Electronic Options: (E-Mail) (PDF) Equis (Excel)

Sampler(s): S. Powers

Relinquished By	Date	Time	Received By
[signature]	6/11/21	1910	
	6/14/21	8:04	[signature]
[signature]	6/14/21	8:16	
[signature]	6/14	0835	[signature]

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu
Other Metals:
Samples Field Filtered? ☐ Yes ☐ No
Notes: (ie: Special Detection Limits, Billing Info, If Different)

Site History: Textile Mill
Suspected Contamination:
Field Readings: <10 ppm PID

Eastern Analytical, Inc.
professional laboratory and drilling services
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | E-Mail: CustomerService@EasternAnalytical.com | www.EasternAnalytical.com

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

Eastern Analytical, Inc.

professional laboratory and drilling services

Bettina Eames
Nobis Group
18 Chenell Drive
Concord , NH 03301

Laboratory Report for:

Eastern Analytical, Inc. ID: 227591
Client Identification: Robin Rug | 095560.260
Date Received: 6/14/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Certifications:
Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Clashaw, Lab Director — Date: 6.21.21 — # of pages (excluding cover letter): 16

SAMPLE CONDITIONS PAGE

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Temperature upon receipt (°C): 2.9 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled		Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
227591.01	Trip Blank	6/14/21	6/10/21	08:00	soil	100.0	Adheres to Sample Acceptance Policy
227591.02	TP-7 0-3.5'	6/14/21	6/10/21	09:00	soil	82.1	Adheres to Sample Acceptance Policy
227591.03	TP-6 9-10'	6/14/21	6/10/21	11:15	soil	86.7	Adheres to Sample Acceptance Policy
227591.04	TP-5 6'	6/14/21	6/10/21	13:00	soil	93.9	Adheres to Sample Acceptance Policy
227591.05	TP-4 9'	6/14/21	6/10/21	14:50	soil	89.5	Adheres to Sample Acceptance Policy
227591.06	Trip Blank	6/14/21	6/11/21	07:00	soil	100.0	Adheres to Sample Acceptance Policy
227591.07	TP-14 1-2'	6/14/21	6/11/21	08:30	soil	90.3	Adheres to Sample Acceptance Policy
227591.08	TP-1 0-2'	6/14/21	6/11/21	10:15	soil	92.1	Adheres to Sample Acceptance Policy
227591.09	TP-2 3-4'	6/14/21	6/11/21	10:55	soil	92.0	Adheres to Sample Acceptance Policy
227591.1	TP-3 2-3'	6/14/21	6/11/21	11:40	soil	81.6	Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- *Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.*
- *Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.*
- *Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.*
- *Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.*

Eastern Analytical, Inc. www.easternanalytical.com | 800.287.0525 | customerservice@easternanalytical.com

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank	TP-7 0-3.5'	TP-6 9-10'	TP-5 6'
Lab Sample ID:	227591.01	227591.02	227591.03	227591.04
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/10/21	6/10/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/14/21	6/14/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	2	1	1
Dichlorodifluoromethane	< 0.1	< 0.2	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.2	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.03	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.2	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.2	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.2	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.08	< 0.05	< 0.05
Acetone	< 2	< 3	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.08	< 0.05	< 0.05
tert-Butyl Alcohol (TBA)	< 2	< 3	< 2	< 2
Methylene chloride	< 0.1	< 0.2	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.2	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.2	< 0.1	< 0.1
Ethyl-t-butyl ether(ETBE)	< 0.1	< 0.2	< 0.1	< 0.1
Isopropyl ether(DIPE)	< 0.1	< 0.2	< 0.1	< 0.1
tert-amyl methyl ether(TAME)	< 0.1	< 0.2	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.08	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.08	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.08	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.08	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.8	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.08	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.8	< 0.5	< 0.5
Chloroform	< 0.05	< 0.08	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.08	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.08	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.08	< 0.05	< 0.05
Benzene	< 0.05	< 0.08	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.08	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.08	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.08	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.08	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.08	< 0.05	< 0.05
1,4-Dioxane	< 1	< 2	< 1	< 1
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.8	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.08	< 0.05	< 0.05
Toluene	< 0.05	< 0.08	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.08	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.08	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.2	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.08	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.08	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.08	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.03	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.08	< 0.05	< 0.05

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank	TP-7 0-3.5'	TP-6 9-10'	TP-5 6'
Lab Sample ID:	227591.01	227591.02	227591.03	227591.04
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/10/21	6/10/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/14/21	6/14/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	2	1	1
Ethylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.08	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.08	< 0.05	< 0.05
Styrene	< 0.05	< 0.08	< 0.05	< 0.05
Bromoform	< 0.05	< 0.08	< 0.05	< 0.05
IsoPropylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.08	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.08	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.08	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.08	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.08	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.08	< 0.05	< 0.05
1,3,5-Trichlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.08	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.2	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.08	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	**92 %R**	**90 %R**	**140 %R**	**88 %R**
1,2-Dichlorobenzene-d4 (surr)	**100 %R**	**102 %R**	**92 %R**	**102 %R**
Toluene-d8 (surr)	**95 %R**	**95 %R**	**88 %R**	**96 %R**
1,2-Dichloroethane-d4 (surr)	**101 %R**	**102 %R**	**108 %R**	**101 %R**

TP-7 0-3.5': Reporting limits are elevated due to the % solids content of the sample or the sample mass used for analysis.
TP-6 9-10': Non target interference in the sample resulted in recovery high outside of the acceptance control limits of 70-130%R for the surrogate 4-Bromofluorobenzene (surr).

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank	TP-14 1-2'	TP-1 0-2'	TP-3 2-3'
Lab Sample ID:	227591.06	227591.07	227591.08	227591.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/11/21	6/11/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	2
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.2
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.2
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.04
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.2
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.2
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.2
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.1
Acetone	< 2	< 2	< 2	< 4
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.1
tert-Butyl Alcohol (TBA)	< 2	< 2	< 2	< 4
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.2
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.2
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.2
Ethyl-t-butyl ether(ETBE)	< 0.1	< 0.1	< 0.1	< 0.2
Isopropyl ether(DIPE)	< 0.1	< 0.1	< 0.1	< 0.2
tert-amyl methyl ether(TAME)	< 0.1	< 0.1	< 0.1	< 0.2
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.1
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.1
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.1
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.1
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 1
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.1
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 1
Chloroform	< 0.05	< 0.05	< 0.05	< 0.1
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.1
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.1
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.1
Benzene	< 0.05	< 0.05	< 0.05	< 0.1
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.1
Trichloroethene	< 0.05	< 0.05	< 0.05	< 0.1
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.1
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.1
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.1
1,4-Dioxane	< 1	< 1	< 1	< 2
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 1
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.1
Toluene	< 0.05	< 0.05	< 0.05	< 0.1
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.1
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.1
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.2
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 0.1
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.1
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.04
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.1

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank	TP-14 1-2'	TP-1 0-2'	TP-3 2-3'
Lab Sample ID:	227591.06	227591.07	227591.08	227591.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/11/21	6/11/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	2
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.1
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.1
Styrene	< 0.05	< 0.05	< 0.05	**5.1**
Bromoform	< 0.05	< 0.05	< 0.05	< 0.1
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.1
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.1
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.1
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.1
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.1
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.1
1,3,5-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.2
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.1
4-Bromofluorobenzene (surr)	**88 %R**	**88 %R**	**89 %R**	**103 %R**
1,2-Dichlorobenzene-d4 (surr)	**101 %R**	**102 %R**	**102 %R**	**95 %R**
Toluene-d8 (surr)	**96 %R**	**95 %R**	**95 %R**	**95 %R**
1,2-Dichloroethane-d4 (surr)	**101 %R**	**102 %R**	**103 %R**	**102 %R**

TP-3 2-3': Reporting limits are elevated due to the % solids content of the sample or the sample mass used for analysis.

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-7 0-3.5'	TP-6 9-10'	TP-5 6'	TP-4 9'
Lab Sample ID:	227591.02	227591.03	227591.04	227591.05
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/10/21	6/10/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/15/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Naphthalene	< 0.09	< 0.08	< 0.07	< 0.08
2-Methylnaphthalene	< 0.09	< 0.08	< 0.07	< 0.08
1-Methylnaphthalene	< 0.09	< 0.08	< 0.07	< 0.08
Acenaphthylene	< 0.09	< 0.08	< 0.07	< 0.08
Acenaphthene	< 0.09	< 0.08	< 0.07	< 0.08
Fluorene	< 0.09	< 0.08	< 0.07	< 0.08
Phenanthrene	**0.17**	< 0.08	< 0.07	< 0.08
Anthracene	< 0.09	< 0.08	< 0.07	< 0.08
Fluoranthene	**0.53**	< 0.08	< 0.07	< 0.08
Pyrene	**0.61**	< 0.08	< 0.07	< 0.08
Benzo[a]anthracene	**0.44**	< 0.08	< 0.07	< 0.08
Chrysene	**0.40**	< 0.08	< 0.07	< 0.08
Benzo[b]fluoranthene	**0.40**	< 0.08	< 0.07	< 0.08
Benzo[k]fluoranthene	**0.14**	< 0.08	< 0.07	< 0.08
Benzo[a]pyrene	**0.35**	< 0.08	< 0.07	< 0.08
Indeno[1,2,3-cd]pyrene	**0.21**	< 0.08	< 0.07	< 0.08
Dibenz[a,h]anthracene	< 0.09	< 0.08	< 0.07	< 0.08
Benzo[g,h,i]perylene	**0.22**	< 0.08	< 0.07	< 0.08
p-Terphenyl-D14 (surr)	**71 %R**	**79 %R**	**76 %R**	**70 %R**

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-14 1-2'	TP-1 0-2'	TP-2 3-4'	TP-3 2-3'
Lab Sample ID:	227591.07	227591.08	227591.09	227591.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/11/21	6/11/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/15/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Naphthalene	< 0.08	< 0.07	**0.086**	< 0.09
2-Methylnaphthalene	< 0.08	< 0.07	< 0.08	< 0.09
1-Methylnaphthalene	< 0.08	< 0.07	< 0.08	< 0.09
Acenaphthylene	< 0.08	**0.10**	**0.19**	< 0.09
Acenaphthene	< 0.08	< 0.07	**0.13**	< 0.09
Fluorene	< 0.08	**0.073**	**0.19**	< 0.09
Phenanthrene	**0.38**	**0.75**	**1.5**	**0.57**
Anthracene	**0.12**	**0.22**	**0.46**	**0.12**
Fluoranthene	**0.71**	**1.3**	**2.4**	**0.95**
Pyrene	**0.59**	**1.1**	**2.1**	**0.79**
Benzo[a]anthracene	**0.37**	**0.71**	**1.3**	**0.70**
Chrysene	**0.38**	**0.69**	**1.3**	**0.75**
Benzo[b]fluoranthene	**0.47**	**0.83**	**1.6**	**0.93**
Benzo[k]fluoranthene	**0.16**	**0.33**	**0.54**	**0.35**
Benzo[a]pyrene	**0.36**	**0.68**	**1.3**	**0.65**
Indeno[1,2,3-cd]pyrene	**0.26**	**0.32**	**0.58**	**0.28**
Dibenz[a,h]anthracene	< 0.08	**0.081**	**0.15**	< 0.09
Benzo[g,h,i]perylene	**0.22**	**0.24**	**0.43**	**0.21**
p-Terphenyl-D14 (surr)	**69 %R**	**74 %R**	**75 %R**	**66 %R**

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-7 0-3.5'	TP-6 9-10'	TP-5 6'	TP-4 9'
Lab Sample ID:	227591.02	227591.03	227591.04	227591.05
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/10/21	6/10/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/15/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JLB	JLB	JLB	JLB
Method:	8100mod	8100mod	8100mod	8100mod
Dilution Factor:	1	1	1	1
TPH (C9-C40)	**69**	**580**	< 30	< 30
p-Terphenyl-D14 (surr)	**86 %R**	**97 %R**	**81 %R**	**68 %R**

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-14 1-2'	TP-1 0-2'	TP-2 3-4'	TP-3 2-3'
Lab Sample ID:	227591.07	227591.08	227591.09	227591.1
Matrix:	soil	soil	soil	soil
Date Sampled:	6/11/21	6/11/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/15/21	6/15/21	6/15/21	6/15/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	JLB	JLB	JLB	JLB
Method:	8100mod	8100mod	8100mod	8100mod
Dilution Factor:	1	1	1	1
TPH (C9-C40)	**59**	**69**	**93**	**230**
p-Terphenyl-D14 (surr)	**84 %R**	**89 %R**	**96 %R**	**107 %R**

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-7 0-3.5'	TP-6 9-10'	TP-14 1-2'	TP-1 0-2'
Lab Sample ID:	227591.02	227591.03	227591.07	227591.08
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
% Solid:	82.1	86.7	90.3	92.1
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/14/21	6/14/21	6/14/21	6/14/21
Date of Analysis:	6/18/21	6/18/21	6/18/21	6/18/21
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8081B	8081B	8081B	8081B
Dilution Factor:	1	1	1	1
Aldrin	< 0.006	< 0.006	< 0.006	< 0.005
alpha-BHC	< 0.006	< 0.006	< 0.006	< 0.005
beta-BHC	< 0.006	< 0.006	< 0.006	< 0.005
Lindane(gamma-BHC)	< 0.006	< 0.006	< 0.006	< 0.005
delta-BHC	< 0.006	< 0.006	< 0.006	< 0.005
Chlordane	< 0.02	< 0.02	< 0.02	< 0.02
4,4'-DDT	**0.014**	**0.040**	< 0.006	< 0.005
4,4'-DDE	**0.012**	< 0.006	< 0.006	< 0.005
4,4'-DDD	< 0.006	**0.063**	< 0.006	< 0.005
Dieldrin	< 0.006	< 0.006	< 0.006	< 0.005
Endosulfan I	< 0.006	< 0.006	< 0.006	< 0.005
Endosulfan II	< 0.006	< 0.006	< 0.006	< 0.005
Endosulfan Sulfate	< 0.006	< 0.006	< 0.006	< 0.005
Endrin	< 0.006	< 0.006	< 0.006	< 0.005
Endrin Aldehyde	< 0.006	< 0.006	< 0.006	< 0.005
Endrin Ketone	< 0.006	< 0.006	< 0.006	< 0.005
Heptachlor	< 0.006	< 0.006	< 0.006	< 0.005
Heptachlor Epoxide	< 0.006	< 0.006	< 0.006	< 0.005
Methoxychlor	< 0.006	< 0.006	< 0.006	< 0.005
Toxaphene	< 0.06	< 0.06	< 0.06	< 0.05
TMX (surr)	**61 %R**	**45 %R**	**60 %R**	**53 %R**
DCB (surr)	**44 %R**	**56 %R**	**45 %R**	**35 %R**

Clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-3 2-3'
Lab Sample ID:	227591.1
Matrix:	soil
Date Sampled:	6/11/21
Date Received:	6/14/21
% Solid:	81.6
Units:	mg/kg
Date of Extraction/Prep:	6/14/21
Date of Analysis:	6/18/21
Analyst:	MB
Extraction Method:	3540C
Analysis Method:	8081B
Dilution Factor:	1

Aldrin	< 0.006
alpha-BHC	< 0.006
beta-BHC	< 0.006
Lindane(gamma-BHC)	< 0.006
delta-BHC	< 0.006
Chlordane	< 0.02
4,4'-DDT	< 0.006
4,4'-DDE	< 0.006
4,4'-DDD	< 0.006
Dieldrin	< 0.006
Endosulfan I	< 0.006
Endosulfan II	< 0.006
Endosulfan Sulfate	< 0.006
Endrin	< 0.006
Endrin Aldehyde	< 0.006
Endrin Ketone	< 0.006
Heptachlor	< 0.006
Heptachlor Epoxide	< 0.006
Methoxychlor	< 0.006
Toxaphene	< 0.06
TMX (surr)	**49 %R**
DCB (surr)	**37 %R**

Clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-7 0-3.5'	TP-6 9-10'	TP-14 1-2'	TP-1 0-2'
Lab Sample ID:	227591.02	227591.03	227591.07	227591.08
Matrix:	soil	soil	soil	soil
Date Sampled:	6/10/21	6/10/21	6/11/21	6/11/21
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21
% Solid:	82.1	86.7	90.3	92.1
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	6/14/21	6/14/21	6/14/21	6/14/21
Date of Analysis:	6/15/21	6/15/21	6/15/21	6/15/21
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	**0.040**
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	**96 %R**	**58 %R**	**79 %R**	**88 %R**
DCB (surr)	**94 %R**	**93 %R**	**87 %R**	**78 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-3 2-3'
Lab Sample ID:	227591.1
Matrix:	soil
Date Sampled:	6/11/21
Date Received:	6/14/21
% Solid:	81.6
Units:	mg/kg
Date of Extraction/Prep:	6/14/21
Date of Analysis:	6/15/21
Analyst:	MB
Extraction Method:	3540C
Analysis Method:	8082A
Dilution Factor:	1
PCB-1016	< 0.02
PCB-1221	< 0.02
PCB-1232	< 0.02
PCB-1242	< 0.02
PCB-1248	< 0.02
PCB-1254	< 0.02
PCB-1260	< 0.02
PCB-1262	< 0.02
PCB-1268	< 0.02
TMX (surr)	**76 %R**
DCB (surr)	**73 %R**

Acid clean-up was performed on the samples and associated batch QC.

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-6 9-10'	TP-5 6'	TP-4 9'	TP-1 0-2'					
Lab Sample ID:	227591.03	227591.04	227591.05	227591.08					
Matrix:	soil	soil	soil	soil					
Date Sampled:	6/10/21	6/10/21	6/10/21	6/11/21	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	6/14/21	6/14/21	6/14/21	6/14/21					
Arsenic	**2.3**	**2.9**	**4.9**	**8.4**	SolTotDry	mg/kg	6/15/21	6020	DS
Barium	**8.3**	**11**	**20**	**29**	SolTotDry	mg/kg	6/15/21	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS
Chromium	**7.1**	**8.4**	**13**	**14**	SolTotDry	mg/kg	6/15/21	6020	DS
Lead	**8.4**	**6.0**	**7.7**	**55**	SolTotDry	mg/kg	6/15/21	6020	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	6/15/21	6020	DS
Selenium	**0.82**	< 0.5	< 0.5	**0.65**	SolTotDry	mg/kg	6/15/21	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS

Sample ID:	TP-3 2-3'							
Lab Sample ID:	227591.1							
Matrix:	soil							
Date Sampled:	6/11/21	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**		
Date Received:	6/14/21							
Arsenic	**18**	SolTotDry	mg/kg	6/15/21	6020	DS		
Barium	**120**	SolTotDry	mg/kg	6/15/21	6020	DS		
Cadmium	**1.2**	SolTotDry	mg/kg	6/15/21	6020	DS		
Chromium	**15**	SolTotDry	mg/kg	6/15/21	6020	DS		
Lead	**63**	SolTotDry	mg/kg	6/15/21	6020	DS		
Mercury	**0.13**	SolTotDry	mg/kg	6/15/21	6020	DS		
Selenium	**2.4**	SolTotDry	mg/kg	6/15/21	6020	DS		
Silver	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS		

LABORATORY REPORT

EAI ID#: **227591**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	TP-7 0-3.5'	TP-14 1-2'	TP-2 3-4'					
Lab Sample ID:	227591.02	227591.07	227591.09					
Matrix:	soil	soil	soil					
Date Sampled:	6/10/21	6/11/21	6/11/21					
Date Received:	6/14/21	6/14/21	6/14/21	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Arsenic	**6.6**	**4.2**	**6.9**	SolTotDry	mg/kg	6/15/21	6020	DS
Barium	**1500**	**72**	**43**	SolTotDry	mg/kg	6/15/21	6020	DS
Cadmium	< 0.5	< 0.5	**0.59**	SolTotDry	mg/kg	6/15/21	6020	DS
Chromium	**13**	**15**	**25**	SolTotDry	mg/kg	6/15/21	6020	DS
Lead	**4600**	**99**	**130**	SolTotDry	mg/kg	6/15/21	6020	DS
Mercury	**0.28**	**0.22**	**0.28**	SolTotDry	mg/kg	6/15/21	6020	DS
Selenium	**1.3**	**0.54**	**0.66**	SolTotDry	mg/kg	6/15/21	6020	DS
Silver	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	6/15/21	6020	DS
Lead	**1.4**	< 0.5	< 0.5	TCLPsolid	mg/L	6/18/21	6020	DS

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CHAIN-OF-CUSTODY RECORD

227591

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BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 / 524.2 MTBE ONLY	VOC: (8260) 624 / 1,4 DIOXANE / VTICS	VOC: 8021	VOC: 8015 GRO / MAVPH	SVOC: (8270) 625 / ABN (PAH) / EDB DBCP	SVOC: (TPH8100) (LL) L2	SVOC: 8015 DRO / MAEPH	SVOC: (PEST 8081) PEST 608 / PCB 608 (PCB 8082)	SVOC: OIL & GREASE 1664 / TPH 1664	TCLP: TCLP 1311 ABN METALS / VOC PEST HERB	INORGANICS: BOD CBOD / TS TSS TDS	INORGANICS: Br Cl F SO4 / NO2 NO3 NO3NO2	INORGANICS: TKN NH3 TN / T. PHOS. O. PHOS.	INORGANICS: pH T. RES. CHLORINE / SPEC. CON. T. ALK.	INORGANICS: COD PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE / TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE / FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM / FECAL COLIFORM / E. COLI	MICRO: ENTEROCOCCI / HETEROTROPHIC PLATE COUNT	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	OTHER: RCRA 8 Metals	OTHER	OTHER	OTHER	# OF CONTAINERS	NOTES MeOH VIAL #
Trip blank	6-10-21/0800	S	G		X																								1	
TP-7 0-3.5'	/0900	S	G		X			X	X		X														X				3	
TP-6 9-10'	/1115	S	G		X	/		X	X		X								TP-5 (6') → Analyze VOCs						X				3	
TP-5 6'	/1300	S	G		~~X~~ Hold			X	X		~~X~~	BEC 6/14/21													X				3	
TP-4 9'	/1450	S	G		~~X~~			X	X		~~X~~	BEC 6/14/21													X				3	
Trip blank	6-11-21/0700	S	G		X																								1	
TP-14 1-2'	/0830	S	G		X			X	X		X														X				3	
TP-1 0-2'	/1015	S	G		X			X	X		X														X				3	
TP-2 3-4'	/1055	S	G		~~X~~			X	X		~~X~~	BEC 6/14/21													X				3	
TP-3 2-3'	/1140	S	G		X			X	X		X														X				3	
MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER / PRESERVATIVE: H-HCL; N-HNO3; S-H2SO4; Na-NaOH; M-MEOH					M																									

PROJECT MANAGER: Bettina Eames

COMPANY: Nobis Group

ADDRESS: 18 Chenell Drive

CITY: Concord STATE: NH ZIP: 03301

PHONE: 603-224-4182 EXT.:

E-MAIL:

SITE NAME: Robin Rug

PROJECT #: 095560.00

STATE: NH MA ME VT OTHER: AI

REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: PO #:

QA/QC REPORTING

A B C

MA MCP

TEMP. 2.7 °C

ICE? (YES) NO

REPORTING OPTIONS

PRELIMS: YES OR NO

ELECTRONIC OPTIONS

(PDF) (EXCEL)

EQUIS

OTHER

TURN AROUND TIME

24hr* 48hr*

3-4 Days*

5 Day 7 Day

(10 Day)

*Pre-approval Required

METALS: (8 RCRA) 13 PP Fe, Mn Pb, Cu

OTHER METALS:

SAMPLES FIELD FILTERED? ☐ YES ☐ NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

8270-PAHs only

SAMPLER(S): R. Rizza

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Richard Rizza	6/11/21	8:09	[signature]
[signature]	6/11/21	2:16	
[signature]	6/14/21	0835	[signature]

SITE HISTORY:

SUSPECTED CONTAMINATION:

FIELD READINGS:

Eastern Analytical, Inc.

professional laboratory and drilling services

51 Antrim Avenue | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | E-MAIL: CUSTOMERSERVICE@EASTERNANALYTICAL.COM | WWW.EASTERNANALYTICAL.COM

(WHITE: Lab Copy GREEN: Customer Copy)

Eastern Analytical, Inc.

professional laboratory and drilling services

Bettina Eames
Nobis Group
18 Chenell Drive
Concord , NH 03301

Laboratory Report for:

Eastern Analytical, Inc. ID: 228404
Client Identification: Robin Rug | 095560.260
Date Received: 7/1/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Certifications:
Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director | 7.7.21 Date | 10 # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Temperature upon receipt (°C): 3.8 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
228404.01	Trip Blank	7/1/21	6/29/21 07:00	aqueous		Adheres to Sample Acceptance Policy
228404.02	NB-2	7/1/21	6/30/21 08:00	aqueous		Adheres to Sample Acceptance Policy
228404.03	NB-3	7/1/21	6/29/21 15:10	aqueous		Adheres to Sample Acceptance Policy
228404.04	GZA-1	7/1/21	6/29/21 16:50	aqueous		Adheres to Sample Acceptance Policy
228404.05	GZA-2	7/1/21	6/29/21 17:35	aqueous		Adheres to Sample Acceptance Policy
228404.06	GZA-3	7/1/21	6/29/21 16:15	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- *Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.*
- *Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.*
- *Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.*
- *Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.*

Eastern Analytical, Inc. www.easternanalytical.com | 800.287.0525 | customerservice@easternanalytical.com

LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank	NB-2	NB-3	GZA-1
Lab Sample ID:	228404.01	228404.02	228404.03	228404.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	6/29/21	6/30/21	6/29/21	6/29/21
Date Received:	7/1/21	7/1/21	7/1/21	7/1/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	7/1/21	7/1/21	7/1/21	7/1/21
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1

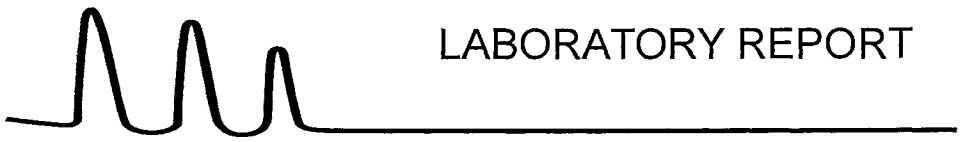
LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	Trip Blank	NB-2	NB-3	GZA-1
Lab Sample ID:	228404.01	228404.02	228404.03	228404.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	6/29/21	6/30/21	6/29/21	6/29/21
Date Received:	7/1/21	7/1/21	7/1/21	7/1/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	7/1/21	7/1/21	7/1/21	7/1/21
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**90 %R**	**91 %R**	**91 %R**	**90 %R**
1,2-Dichlorobenzene-d4 (surr)	**103 %R**	**101 %R**	**103 %R**	**103 %R**
Toluene-d8 (surr)	**97 %R**	**97 %R**	**97 %R**	**97 %R**
1,2-Dichloroethane-d4 (surr)	**106 %R**	**105 %R**	**106 %R**	**106 %R**



LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	GZA-2	GZA-3
Lab Sample ID:	228404.05	228404.06
Matrix:	aqueous	aqueous
Date Sampled:	6/29/21	6/29/21
Date Received:	7/1/21	7/1/21
Units:	ug/L	ug/L
Date of Analysis:	7/1/21	7/1/21
Analyst:	DGM	DGM
Method:	8260C	8260C
Dilution Factor:	1	1
Dichlorodifluoromethane	< 2	< 2
Chloromethane	< 2	< 2
Vinyl chloride	< 1	< 1
Bromomethane	< 2	< 2
Chloroethane	< 2	< 2
Trichlorofluoromethane	< 2	< 2
Diethyl Ether	< 2	< 2
Acetone	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 1	< 1
Carbon disulfide	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1
1,1-Dichloroethane	< 1	< 1
2,2-Dichloropropane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
1,1-Dichloropropene	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
1,2-Dichloropropane	< 1	< 1
Dibromomethane	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1
2-Hexanone	< 10	< 10
Tetrachloroethene	< 1	< 1
1,3-Dichloropropane	< 1	< 1
Dibromochloromethane	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5
Chlorobenzene	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1

LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	GZA-2	GZA-3
Lab Sample ID:	228404.05	228404.06
Matrix:	aqueous	aqueous
Date Sampled:	6/29/21	6/29/21
Date Received:	7/1/21	7/1/21
Units:	ug/L	ug/L
Date of Analysis:	7/1/21	7/1/21
Analyst:	DGM	DGM
Method:	8260C	8260C
Dilution Factor:	1	1
Ethylbenzene	< 1	< 1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 1	< 1
4-Chlorotoluene	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**90 %R**	**90 %R**
1,2-Dichlorobenzene-d4 (surr)	**102 %R**	**102 %R**
Toluene-d8 (surr)	**97 %R**	**97 %R**
1,2-Dichloroethane-d4 (surr)	**106 %R**	**105 %R**

LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	NB-2	NB-3	GZA-1	GZA-2
Lab Sample ID:	228404.02	228404.03	228404.04	228404.05
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	6/30/21	6/29/21	6/29/21	6/29/21
Date Received:	7/1/21	7/1/21	7/1/21	7/1/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	7/1/21	7/1/21	7/1/21	7/1/21
Date of Analysis:	7/1/21	7/1/21	7/1/21	7/1/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	**0.14**	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
p-Terphenyl-D14 (surr)	**51 %R**	**48 %R**	**30 %R**	**66 %R**

LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	GZA-3
Lab Sample ID:	228404.06
Matrix:	aqueous
Date Sampled:	6/29/21
Date Received:	7/1/21
Units:	ug/L
Date of Extraction/Prep:	7/1/21
Date of Analysis:	7/1/21
Analyst:	JMR
Method:	8270D
Dilution Factor:	1
Naphthalene	< 0.1
2-Methylnaphthalene	< 0.1
1-Methylnaphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	**0.13**
Anthracene	< 0.1
Fluoranthene	**0.28**
Pyrene	**0.24**
Benzo[a]anthracene	**0.18**
Chrysene	**0.12**
Benzo[b]fluoranthene	**0.18**
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	**0.14**
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
p-Terphenyl-D14 (surr)	**55 %R**

LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	NB-2	NB-3	GZA-1	GZA-2
Lab Sample ID:	228404.02	228404.03	228404.04	228404.05
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	6/30/21	6/29/21	6/29/21	6/29/21
Date Received:	7/1/21	7/1/21	7/1/21	7/1/21
Units:	mg/L	mg/L	mg/L	mg/L
Date of Extraction/Prep:	7/1/21	7/1/21	7/1/21	7/1/21
Date of Analysis:	7/1/21	7/1/21	7/1/21	7/1/21
Analyst:	JLB	JLB	JLB	JLB
Method:	8100mod	8100mod	8100mod	8100mod
Dilution Factor:	1	1	1	1
TPH (C9-C40)	< 0.4	< 0.5	< 0.5	< 0.4
p-Terphenyl-D14 (surr)	**45 %R**	**44 %R**	**29 %R**	**61 %R**

GZA-1: The surrogate p-Terphenyl-D14 exhibited recovery below acceptance limits. The results were confirmed by re-analysis.

LABORATORY REPORT

EAI ID#: **228404**

Client: **Nobis Group**

Client Designation: **Robin Rug | 095560.260**

Sample ID:	GZA-3
Lab Sample ID:	228404.06
Matrix:	aqueous
Date Sampled:	6/29/21
Date Received:	7/1/21
Units:	mg/L
Date of Extraction/Prep:	7/1/21
Date of Analysis:	7/1/21
Analyst:	JLB
Method:	8100mod
Dilution Factor:	1
TPH (C9-C40)	< 0.4
p-Terphenyl-D14 (surr)	**49 %R**

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

228404

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 MTBE only	VOC: 8260 (circled) 624 VTICs 1,4 Dioxane	VOC: 8021	VOC: 8015 GRO MAVPH	SVOC: 8270 (circled) 625 ABN PAH (circled) EDB DBCP	SVOC: TPH8100 (circled) L1 L2	SVOC: 8015 DRO MAEPH	SVOC: PEST 608 PCB 608 PEST 8081 PCB 8082	SVOC: Oil & Grease 1664 TPH 1664	TCLP: TCLP 1311 ABN Metals VOC Pest Herb	Inorganics: BOD CBOD TS TSS TDS	Inorganics: Br Cl F SO_4 NO_2 NO_3 NO_3NO_2	Inorganics: TKN NH_3 TN T. Phos. O. Phos.	Inorganics: pH T. Res. Chlorine Spec. Con. T. Alk.	Inorganics: COD Phenols TOC DOC	Inorganics: Total Cyanide Total Sulfide	Inorganics: Reactive Cyanide Reactive Sulfide Flashpoint Ignitability	Micro: Total Coliform E. Coli Fecal Coliform	Micro: Enterococci Heterotrophic Plate Count	Metals: Dissolved Metals (List Below)	Metals: Total Metals (List Below)	Other	Other	Other	Other	# of Containers	Notes MeOH Vial #
Trip Blank	6/29/21 0700	GW	G		✓			(crossed out)																					2	
NB-2	6/30/21 0800	GW	G		✓			✓	✓																				4	
NB-3	6/29/21 1510	GW	G		✓			✓	✓																				4	
GZA-1	6/29/21 1650	GW	G		✓			✓	✓																				4	
GZA-2	6/29/21 1735	GW	G		✓			✓	✓																				4	
GZA-3	6/29/21 1615	GW	G		✓			✓	✓																				4	
Preservative					H																									

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water

Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

Project Manager: Bettina Eames

Company: Nobis

Address: 18 Chenell Drive

City: Concord State: NH Zip: 03301

Phone: 603-224-4182 Ext.:

E-Mail: beames@nobis-group.com

Site Name: Robin Rug

Project #: 095560.260

State: NH MA ME VT Other: RI

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: PO #:

QA/QC Reporting

A B C

MA MCP

Temp. 4 (3.8) °C

Ice? Yes (circled) No

Reporting Options

Prelims: Yes or No (circled)

Electronic Options

PDF (circled) Excel (circled) Equis

Other

Turn Around Time

24hr* 48hr*

3-4 Days*

5 Day 7 Day

10 Day (circled)

*Pre-approval Required

Sampler(s): S. Powers

Relinquished By	Date	Time	Received By
Sarah Powers	7/1/21	1045	[signature]

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu

Other Metals:

Samples Field Filtered? ☒ Yes ☐ No

Notes: (ie: Special Detection Limits, Billing Info, If Different) GZA-1 filtered for PAH due to turbidity

RI GB objectives

Site History: Textile Mill

Suspected Contamination:

Field Readings:

Eastern Analytical, Inc.
professional laboratory and drilling services

51 Antrim Avenue | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | E-Mail: CustomerService@EasternAnalytical.com | www.EasternAnalytical.com

(WHITE: Lab Copy GREEN: Customer Copy)

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July 13, 2021

Bettina Eames
Nobis Engineering - NH
18 Chenell Drive
Concord, NH 03301

Project Location: 125 Thames St, Bristol, RI
Client Job Number:
Project Number: 095560.260
Laboratory Work Order Number: 21G0028

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

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Nobis Engineering - NH
18 Chenell Drive
Concord, NH 03301
ATTN: Bettina Eames

REPORT DATE: 7/13/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 095560.260

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0028

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

PROJECT LOCATION: 125 Thames St, Bristol, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-1	21G0028-01	Wipe		SW-846 8082A	
WS-2	21G0028-02	Wipe		SW-846 8082A	
WS-3	21G0028-03	Wipe		SW-846 8082A	
WS-4	21G0028-04	Wipe		SW-846 8082A	
CW-1	21G0028-05	Wipe		SW-846 8082A	
CW-2	21G0028-06	Wipe		SW-846 8082A	
CW-3	21G0028-07	Wipe		SW-846 8082A	
CW-4	21G0028-08	Wipe		SW-846 8082A	
CW-5	21G0028-09	Wipe		SW-846 8082A	
CW-6	21G0028-10	Wipe		SW-846 8082A	
CW-7	21G0028-11	Wipe		SW-846 8082A	
CW-8	21G0028-12	Wipe		SW-846 8082A	
CW-9	21G0028-13	Wipe		SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:

Aroclor-1016

21G0028-01[WS-1], 21G0028-02[WS-2], 21G0028-03[WS-3], 21G0028-04[WS-4], 21G0028-05[CW-1], 21G0028-06[CW-2], 21G0028-07[CW-3], 21G0028-08[CW-4], 21G0028-09[CW-5], 21G0028-10[CW-6], 21G0028-11[CW-7], 21G0028-12[CW-8], 21G0028-13[CW-9], B285514-BLK1, B285514-BS1, B285514-BSD1

Aroclor-1016 [2C]

21G0028-01[WS-1], 21G0028-02[WS-2], 21G0028-03[WS-3], 21G0028-04[WS-4], 21G0028-05[CW-1], 21G0028-06[CW-2], 21G0028-07[CW-3], 21G0028-08[CW-4], 21G0028-09[CW-5], 21G0028-10[CW-6], 21G0028-11[CW-7], 21G0028-12[CW-8], 21G0028-13[CW-9], B285514-BLK1, B285514-BS1, B285514-BSD1

Aroclor-1260

21G0028-01[WS-1], 21G0028-02[WS-2], 21G0028-03[WS-3], 21G0028-04[WS-4], 21G0028-05[CW-1], 21G0028-06[CW-2], 21G0028-07[CW-3], 21G0028-08[CW-4], 21G0028-09[CW-5], 21G0028-10[CW-6], 21G0028-11[CW-7], 21G0028-12[CW-8], 21G0028-13[CW-9], B285514-BLK1, B285514-BS1, B285514-BSD1

Aroclor-1260 [2C]

21G0028-01[WS-1], 21G0028-02[WS-2], 21G0028-03[WS-3], 21G0028-04[WS-4], 21G0028-05[CW-1], 21G0028-06[CW-2], 21G0028-07[CW-3], 21G0028-08[CW-4], 21G0028-09[CW-5], 21G0028-10[CW-6], 21G0028-11[CW-7], 21G0028-12[CW-8], 21G0028-13[CW-9], B285514-BLK1, B285514-BS1, B285514-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: WS-1 | Sampled: 6/28/2021 13:00

Sample ID: 21G0028-01

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1254 [1]	0.25	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM
Aroclor-1268 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:25	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	71.8	30-150		7/13/21	8:25
Decachlorobiphenyl [2]	67.9	30-150		7/13/21	8:25
Tetrachloro-m-xylene [1]	68.0	30-150		7/13/21	8:25
Tetrachloro-m-xylene [2]	68.0	30-150		7/13/21	8:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: WS-2 | Sampled: 6/28/2021 12:55

Sample ID: 21G0028-02

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM
Aroclor-1268 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 8:43	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	77.5	30-150		7/13/21	8:43
Decachlorobiphenyl [2]	74.1	30-150		7/13/21	8:43
Tetrachloro-m-xylene [1]	72.3	30-150		7/13/21	8:43
Tetrachloro-m-xylene [2]	72.1	30-150		7/13/21	8:43

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Project Location: 125 Thames St, Bristol, RI
Sample Description:
Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: WS-3
Sampled: 6/28/2021 13:10

Sample ID: 21G0028-03

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:00	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	83.9	30-150		7/13/21 9:00	
Decachlorobiphenyl [2]	80.1	30-150		7/13/21 9:00	
Tetrachloro-m-xylene [1]	82.5	30-150		7/13/21 9:00	
Tetrachloro-m-xylene [2]	82.2	30-150		7/13/21 9:00	

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Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: WS-4 | Sampled: 6/28/2021 13:20

Sample ID: 21G0028-04

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1260 [2]	0.20	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:18	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	68.7	30-150		7/13/21 9:18	
Decachlorobiphenyl [2]	65.3	30-150		7/13/21 9:18	
Tetrachloro-m-xylene [1]	69.3	30-150		7/13/21 9:18	
Tetrachloro-m-xylene [2]	69.4	30-150		7/13/21 9:18	

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Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-1 | Sampled: 6/28/2021 14:00

Sample ID: 21G0028-05

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1254 [2]	0.32	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1260 [2]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:36	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	89.0	30-150		7/13/21 9:36	
Decachlorobiphenyl [2]	91.9	30-150		7/13/21 9:36	
Tetrachloro-m-xylene [1]	85.1	30-150		7/13/21 9:36	
Tetrachloro-m-xylene [2]	84.2	30-150		7/13/21 9:36	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-2 | Sampled: 6/28/2021 15:00

Sample ID: 21G0028-06

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1260 [2]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 9:53	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	87.6	30-150		7/13/21	9:53
Decachlorobiphenyl [2]	83.5	30-150		7/13/21	9:53
Tetrachloro-m-xylene [1]	85.7	30-150		7/13/21	9:53
Tetrachloro-m-xylene [2]	84.6	30-150		7/13/21	9:53

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Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-3 | Sampled: 6/28/2021 14:05

Sample ID: 21G0028-07

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1260 [2]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:11	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		7/13/21 10:11
Decachlorobiphenyl [2]	84.3	30-150		7/13/21 10:11
Tetrachloro-m-xylene [1]	78.3	30-150		7/13/21 10:11
Tetrachloro-m-xylene [2]	79.0	30-150		7/13/21 10:11

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Project Location: 125 Thames St, Bristol, RI
Sample Description:
Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-4
Sampled: 6/28/2021 15:10

Sample ID: 21G0028-08

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM
Aroclor-1268 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:29	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.0	30-150		7/13/21 10:29
Decachlorobiphenyl [2]	66.8	30-150		7/13/21 10:29
Tetrachloro-m-xylene [1]	75.4	30-150		7/13/21 10:29
Tetrachloro-m-xylene [2]	75.3	30-150		7/13/21 10:29

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Project Location: 125 Thames St, Bristol, RI
Sample Description:
Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-5
Sampled: 6/28/2021 14:35

Sample ID: 21G0028-09

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 10:46	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.6	30-150		7/13/21 10:46
Decachlorobiphenyl [2]	85.4	30-150		7/13/21 10:46
Tetrachloro-m-xylene [1]	78.9	30-150		7/13/21 10:46
Tetrachloro-m-xylene [2]	79.3	30-150		7/13/21 10:46

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Project Location: 125 Thames St, Bristol, RI
Sample Description:
Work Order: 21G0028

Date Received: 7/1/2021

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

Sample ID: 21G0028-10

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1254 [2]	0.27	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:04	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		7/13/21 11:04
Decachlorobiphenyl [2]	97.2	30-150		7/13/21 11:04
Tetrachloro-m-xylene [1]	94.3	30-150		7/13/21 11:04
Tetrachloro-m-xylene [2]	94.0	30-150		7/13/21 11:04

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Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-7 | Sampled: 6/28/2021 15:20

Sample ID: 21G0028-11

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1254 [2]	0.47	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:22	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.1	30-150		7/13/21 11:22
Decachlorobiphenyl [2]	86.7	30-150		7/13/21 11:22
Tetrachloro-m-xylene [1]	85.2	30-150		7/13/21 11:22
Tetrachloro-m-xylene [2]	85.8	30-150		7/13/21 11:22

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Project Location: 125 Thames St, Bristol, RI
Sample Description:
Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-8
Sampled: 6/28/2021 15:30

Sample ID: 21G0028-12

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1254 [2]	0.40	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1260 [2]	0.35	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:39	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.0	30-150		7/13/21 11:39
Decachlorobiphenyl [2]	71.6	30-150		7/13/21 11:39
Tetrachloro-m-xylene [1]	75.8	30-150		7/13/21 11:39
Tetrachloro-m-xylene [2]	76.3	30-150		7/13/21 11:39

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Project Location: 125 Thames St, Bristol, RI | Sample Description: | Work Order: 21G0028

Date Received: 7/1/2021

Field Sample #: CW-9 | Sampled: 6/28/2021 15:05

Sample ID: 21G0028-13

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1254 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/8/21	7/13/21 11:57	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.0	30-150		7/13/21 11:57
Decachlorobiphenyl [2]	83.1	30-150		7/13/21 11:57
Tetrachloro-m-xylene [1]	91.0	30-150		7/13/21 11:57
Tetrachloro-m-xylene [2]	90.9	30-150		7/13/21 11:57

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Sample Extraction Data

Prep Method: SW-846 3540C **Analytical Method: SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
21G0028-01 [WS-1]	B285514	1.00	10.0	07/08/21
21G0028-02 [WS-2]	B285514	1.00	10.0	07/08/21
21G0028-03 [WS-3]	B285514	1.00	10.0	07/08/21
21G0028-04 [WS-4]	B285514	1.00	10.0	07/08/21
21G0028-05 [CW-1]	B285514	1.00	10.0	07/08/21
21G0028-06 [CW-2]	B285514	1.00	10.0	07/08/21
21G0028-07 [CW-3]	B285514	1.00	10.0	07/08/21
21G0028-08 [CW-4]	B285514	1.00	10.0	07/08/21
21G0028-09 [CW-5]	B285514	1.00	10.0	07/08/21
21G0028-10 [CW-6]	B285514	1.00	10.0	07/08/21
21G0028-11 [CW-7]	B285514	1.00	10.0	07/08/21
21G0028-12 [CW-8]	B285514	1.00	10.0	07/08/21
21G0028-13 [CW-9]	B285514	1.00	10.0	07/08/21

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B285514 - SW-846 3540C											
Blank (B285514-BLK1)				Prepared: 07/08/21 Analyzed: 07/13/21							
Aroclor-1016	ND	0.20	µg/Wipe								R-05
Aroclor-1016 [2C]	ND	0.20	µg/Wipe								R-05
Aroclor-1221	ND	0.20	µg/Wipe								
Aroclor-1221 [2C]	ND	0.20	µg/Wipe								
Aroclor-1232	ND	0.20	µg/Wipe								
Aroclor-1232 [2C]	ND	0.20	µg/Wipe								
Aroclor-1242	ND	0.20	µg/Wipe								
Aroclor-1242 [2C]	ND	0.20	µg/Wipe								
Aroclor-1248	ND	0.20	µg/Wipe								
Aroclor-1248 [2C]	ND	0.20	µg/Wipe								
Aroclor-1254	ND	0.20	µg/Wipe								
Aroclor-1254 [2C]	ND	0.20	µg/Wipe								
Aroclor-1260	ND	0.20	µg/Wipe								R-05
Aroclor-1260 [2C]	ND	0.20	µg/Wipe								R-05
Aroclor-1262	ND	0.20	µg/Wipe								
Aroclor-1262 [2C]	ND	0.20	µg/Wipe								
Aroclor-1268	ND	0.20	µg/Wipe								
Aroclor-1268 [2C]	ND	0.20	µg/Wipe								
Surrogate: Decachlorobiphenyl	*1.60*		µg/Wipe	2.00		80.2	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.53*		µg/Wipe	2.00		76.4	30-150				
Surrogate: Tetrachloro-m-xylene	*1.54*		µg/Wipe	2.00		76.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.53*		µg/Wipe	2.00		76.7	30-150				
LCS (B285514-BS1)				Prepared: 07/08/21 Analyzed: 07/13/21							
Aroclor-1016	0.49	0.20	µg/Wipe	0.500		97.3	40-140				R-05
Aroclor-1016 [2C]	0.48	0.20	µg/Wipe	0.500		96.9	40-140				R-05
Aroclor-1260	0.48	0.20	µg/Wipe	0.500		96.7	40-140				R-05
Aroclor-1260 [2C]	0.44	0.20	µg/Wipe	0.500		87.5	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.93*		µg/Wipe	2.00		96.4	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.84*		µg/Wipe	2.00		92.0	30-150				
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/Wipe	2.00		86.7	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.72*		µg/Wipe	2.00		86.1	30-150				
LCS Dup (B285514-BSD1)				Prepared: 07/08/21 Analyzed: 07/13/21							
Aroclor-1016	0.35	0.20	µg/Wipe	0.500		69.1	40-140	**33.9**	*	30	R-05
Aroclor-1016 [2C]	0.35	0.20	µg/Wipe	0.500		70.2	40-140	**31.9**	*	30	R-05
Aroclor-1260	0.32	0.20	µg/Wipe	0.500		64.5	40-140	**40.0**	*	30	R-05
Aroclor-1260 [2C]	0.28	0.20	µg/Wipe	0.500		56.8	40-140	**42.5**	*	30	R-05
Surrogate: Decachlorobiphenyl	*1.20*		µg/Wipe	2.00		59.8	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.15*		µg/Wipe	2.00		57.7	30-150				
Surrogate: Tetrachloro-m-xylene	*1.23*		µg/Wipe	2.00		61.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.24*		µg/Wipe	2.00		61.9	30-150				

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-1

Lab Sample ID: 21G0028-01 Date(s) Analyzed: 07/13/2021 07/13/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.21	17.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

CW-1

Lab Sample ID: 21G0028-05

Date(s) Analyzed: 07/13/2021 07/13/2021

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.32	24.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

CW-7

Lab Sample ID: 21G0028-11

Date(s) Analyzed: 07/13/2021 07/13/2021

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.47	4.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

CW-8

Lab Sample ID: 21G0028-12 Date(s) Analyzed: 07/13/2021 07/13/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.30	
	2	0.000	0.000	0.000	0.35	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B285514-BS1 Date(s) Analyzed: 07/13/2021 07/13/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.48	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.44	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B285514-BSD1 Date(s) Analyzed: 07/13/2021 07/13/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.35	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.28	13.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

2160028

ALL SHADED AREAS are for LAB USE ONLY

Company: Nobis	Billing Information: Accounts Payable Nobis
Address: 18 Chenell Drive	
Report To: Bettina Eames	Email To: beames@nobis-group.com
Copy To:	Site Collection Info/Address: 125 Thames St
Customer Project Name/Number: Robin Rug 095560.200	State: RI County/City: Bristol Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 603-224-4182 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Sarah Powers	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Sarah Powers	Turnaround Date Required: standard turnaround Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [X] No Analysis:

Container Preservative Type **: 9

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: PCBs EPA 8082 Soxhlet

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	Y N (NA)
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	Y N (NA)
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	Y N (NA)
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:

Lab Sample # / Comments:

Labels were wet and fell off some jars. Unable to figure out which is WS-3, CW-1, CW-7, and CW-8

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab # / Comments
WS-1	WP	G	6-28-21	1300				1	1 which is WS-3, CW-1,
WS-2	WP	G		1255				1	2 CW-7, and CW-8
WS-3	WP	G		1310				1	3
WS-4	WP	G		1320				1	4
CW-1	WP	G		1400				1	5
CW-2	WP	G		1500				1	6
CW-3	WP	G		1405				1	7
CW-4	WP	G		1510				1	8
CW-5	WP	G		1435				1	9
CW-6	WP	G		1430				1	10

Customer Remarks / Special Conditions / Possible Hazards:

Method 8022 w/ Soxhlet Extraction needed

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2676634

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 3

Cooler 1 Temp Upon Receipt: ____oC

Cooler 1 Therm Corr. Factor: ____oC

Cooler 1 Corrected Temp: ____oC

Comments: 4 < 3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Sarah Powers	6/30/21 2030		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	7/1/21 1125		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	7/1/21 1405		

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y (N) NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

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Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

Company: Nobis
Billing Information: Accounts Payable Nobis
Address: 18 Chenell Drive
Report To: Bettina Eames
Email To: beames@nobis-group.com
Copy To:
Site Collection Info/Address: 125 Thames St
Customer Project Name/Number: Robin Rug 095560.2160
State: RI County/City: Bristol Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 603-224-4182
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Sarah Powers
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature): Sarah Powers
Turnaround Date Required: Standard turnaround
Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
Field Filtered (if applicable): [ ] Yes [X] No
Analysis: ______

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

2160028

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **: 9

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Analyses: PCBs EPA 8082 Soxhlet	Lab Sample # / Comments
CW-7	WP	G	6-28-21	1520				1	✓	-11
CW-8	WP	G	↓	1530				1	✓	-12
CW-9	WP	G	↓	1505				1	✓	13

Lab Profile/Line:
Lab Sample Receipt Checklist:
- Custody Seals Present/Intact Y N (NA)
- Custody Signatures Present Y N (NA)
- Collector Signature Present (Y) N NA
- Bottles Intact (Y) N NA
- Correct Bottles (Y) N NA
- Sufficient Volume (Y) N NA
- Samples Received on Ice (Y) N NA
- VOA - Headspace Acceptable Y N (NA)
- USDA Regulated Soils Y N (NA)
- Samples in Holding Time (Y) N NA
- Residual Chlorine Present Y N (NA)
- Cl Strips: ______
- Sample pH Acceptable Y N (NA)
- pH Strips: ______
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ______

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: Method 8082 w/ soxhlet extraction needed

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA
SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2676633
Samples received via: FEDEX UPS Client Courier (Pace Courier)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Sarah Powers	6/30/21 2030	[signature]	7/1/21 1605
[signature]	7/1/21 1625		
[signature]	7/1/21 1605		

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 3
Cooler 1 Temp Upon Receipt: ______oC
Cooler 1 Therm Corr. Factor: ______oC
Cooler 1 Corrected Temp: ______oC
Comments: 4.3

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: 2 of: 2

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July 9, 2021

Bettina Eames
Nobis Engineering - NH
18 Chenell Drive
Concord, NH 03301

Project Location: Bristol, RI
Client Job Number:
Project Number: 095560.00
Laboratory Work Order Number: 21G0029

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

Sincerely,

Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Nobis Engineering - NH
18 Chenell Drive
Concord, NH 03301
ATTN: Bettina Eames

REPORT DATE: 7/9/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 095560.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0029

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

PROJECT LOCATION: Bristol, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SG-1	21G0029-01	Sub Slab		EPA TO-15	
SG-2	21G0029-02	Sub Slab		EPA TO-15	
SG-4	21G0029-03	Sub Slab		EPA TO-15	
SG-5	21G0029-04	Sub Slab		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

V-05

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

Analyte & Samples(s) Qualified:

Vinyl Acetate
21G0029-01[SG-1], 21G0029-02[SG-2], 21G0029-03[SG-4], 21G0029-04[SG-5], B285631-BLK1, B285631-BS1, B285631-DUP1, S061346-CCV1

V-34

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

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene
21G0029-01[SG-1], 21G0029-02[SG-2], 21G0029-03[SG-4], 21G0029-04[SG-5], B285631-BLK1, B285631-BS1, B285631-DUP1, S061346-CCV1

Z-01

Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene
21G0029-01[SG-1], 21G0029-02[SG-2], 21G0029-03[SG-4], 21G0029-04[SG-5], B285631-BLK1, B285631-BS1, B285631-DUP1

Naphthalene
21G0029-01[SG-1], 21G0029-02[SG-2], 21G0029-03[SG-4], 21G0029-04[SG-5], B285631-BLK1, B285631-BS1, B285631-DUP1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-1
Sample ID: 21G0029-01
Sample Matrix: Sub Slab
Sampled: 6/30/2021 14:16

Sample Description/Location:
Sub Description/Location:
Canister ID: 2057
Canister Size: 6 liter
Flow Controller ID: 4067
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -5.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag/Qual	Results	RL	Dilution	Analyzed	Analyst
Acetone	4.9	4.0		12	9.5	2	7/8/21 19:38	BRF
Benzene	0.30	0.10		0.95	0.32	2	7/8/21 19:38	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/8/21 19:38	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/8/21 19:38	BRF
Bromoform	ND	0.10		ND	1.0	2	7/8/21 19:38	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/8/21 19:38	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/8/21 19:38	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/8/21 19:38	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/8/21 19:38	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/8/21 19:38	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/8/21 19:38	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/8/21 19:38	BRF
Chloroform	0.15	0.10		0.74	0.49	2	7/8/21 19:38	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/8/21 19:38	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/8/21 19:38	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/8/21 19:38	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/8/21 19:38	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 19:38	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 19:38	BRF
1,4-Dichlorobenzene	1.6	0.10		9.9	0.60	2	7/8/21 19:38	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/8/21 19:38	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 19:38	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 19:38	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 19:38	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 19:38	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 19:38	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/8/21 19:38	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 19:38	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 19:38	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/8/21 19:38	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/8/21 19:38	BRF
Ethanol	11	4.0		20	7.5	2	7/8/21 19:38	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/8/21 19:38	BRF
Ethylbenzene	0.20	0.10		0.89	0.43	2	7/8/21 19:38	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/8/21 19:38	BRF
Heptane	ND	0.10		ND	0.41	2	7/8/21 19:38	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/8/21 19:38	BRF

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-1
Sample ID: 21G0029-01
Sample Matrix: Sub Slab
Sampled: 6/30/2021 14:16

Sample Description/Location:
Sub Description/Location:
Canister ID: 2057
Canister Size: 6 liter
Flow Controller ID: 4067
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -5.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	4.0		ND	14	2	7/8/21 19:38	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/8/21 19:38	BRF
Isopropanol	ND	4.0		ND	9.8	2	7/8/21 19:38	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/8/21 19:38	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/8/21 19:38	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/8/21 19:38	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/8/21 19:38	BRF
Propene	ND	4.0		ND	6.9	2	7/8/21 19:38	BRF
Styrene	ND	0.10		ND	0.43	2	7/8/21 19:38	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/8/21 19:38	BRF
Tetrachloroethylene	1.4	0.10		9.6	0.68	2	7/8/21 19:38	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/8/21 19:38	BRF
Toluene	1.3	0.10		4.8	0.38	2	7/8/21 19:38	BRF
1,2,4-Trichlorobenzene	ND	0.10	Z-01, V-34	ND	0.74	2	7/8/21 19:38	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 19:38	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 19:38	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/8/21 19:38	BRF
Trichlorofluoromethane (Freon 11)	2.4	0.40		13	2.2	2	7/8/21 19:38	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/8/21 19:38	BRF
1,2,4-Trimethylbenzene	0.57	0.10		2.8	0.49	2	7/8/21 19:38	BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 19:38	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/8/21 19:38	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/8/21 19:38	BRF
m&p-Xylene	0.37	0.20		1.6	0.87	2	7/8/21 19:38	BRF
o-Xylene	0.18	0.10		0.78	0.43	2	7/8/21 19:38	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.0	70-130	7/8/21 19:38

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-2
Sample ID: 21G0029-02
Sample Matrix: Sub Slab
Sampled: 6/30/2021 14:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1641
Canister Size: 6 liter
Flow Controller ID: 4076
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag/Qual	Results	RL	Dilution	Analyzed	Analyst
Acetone	4.8	4.0		12	9.5	2	7/8/21 20:30	BRF
Benzene	ND	0.10		ND	0.32	2	7/8/21 20:30	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/8/21 20:30	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/8/21 20:30	BRF
Bromoform	ND	0.10		ND	1.0	2	7/8/21 20:30	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/8/21 20:30	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/8/21 20:30	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/8/21 20:30	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/8/21 20:30	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/8/21 20:30	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/8/21 20:30	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/8/21 20:30	BRF
Chloroform	0.38	0.10		1.8	0.49	2	7/8/21 20:30	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/8/21 20:30	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/8/21 20:30	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/8/21 20:30	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/8/21 20:30	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 20:30	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 20:30	BRF
1,4-Dichlorobenzene	0.44	0.10		2.7	0.60	2	7/8/21 20:30	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/8/21 20:30	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 20:30	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 20:30	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 20:30	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 20:30	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 20:30	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/8/21 20:30	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 20:30	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 20:30	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/8/21 20:30	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/8/21 20:30	BRF
Ethanol	33	4.0		62	7.5	2	7/8/21 20:30	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/8/21 20:30	BRF
Ethylbenzene	0.14	0.10		0.59	0.43	2	7/8/21 20:30	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/8/21 20:30	BRF
Heptane	ND	0.10		ND	0.41	2	7/8/21 20:30	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/8/21 20:30	BRF

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-2
Sample ID: 21G0029-02
Sample Matrix: Sub Slab
Sampled: 6/30/2021 14:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1641
Canister Size: 6 liter
Flow Controller ID: 4076
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	7/8/21 20:30	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/8/21 20:30	BRF
Isopropanol	ND	4.0		ND	9.8	2	7/8/21 20:30	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/8/21 20:30	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/8/21 20:30	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/8/21 20:30	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/8/21 20:30	BRF
Propene	ND	4.0		ND	6.9	2	7/8/21 20:30	BRF
Styrene	0.10	0.10		0.43	0.43	2	7/8/21 20:30	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/8/21 20:30	BRF
Tetrachloroethylene	2.6	0.10		18	0.68	2	7/8/21 20:30	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/8/21 20:30	BRF
Toluene	0.42	0.10		1.6	0.38	2	7/8/21 20:30	BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34, Z-01	ND	0.74	2	7/8/21 20:30	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 20:30	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 20:30	BRF
Trichloroethylene	0.23	0.10		1.2	0.54	2	7/8/21 20:30	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/8/21 20:30	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/8/21 20:30	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 20:30	BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 20:30	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/8/21 20:30	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/8/21 20:30	BRF
m&p-Xylene	0.39	0.20		1.7	0.87	2	7/8/21 20:30	BRF
o-Xylene	0.20	0.10		0.86	0.43	2	7/8/21 20:30	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.6	70-130	7/8/21 20:30

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-4
Sample ID: 21G0029-03
Sample Matrix: Sub Slab
Sampled: 6/30/2021 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 2205
Canister Size: 6 liter
Flow Controller ID: 4311
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	5.4	4.0		13	9.5	2	7/8/21 21:49	BRF
Benzene	ND	0.10		ND	0.32	2	7/8/21 21:49	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/8/21 21:49	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/8/21 21:49	BRF
Bromoform	ND	0.10		ND	1.0	2	7/8/21 21:49	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/8/21 21:49	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/8/21 21:49	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/8/21 21:49	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/8/21 21:49	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/8/21 21:49	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/8/21 21:49	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/8/21 21:49	BRF
Chloroform	ND	0.10		ND	0.49	2	7/8/21 21:49	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/8/21 21:49	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/8/21 21:49	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/8/21 21:49	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/8/21 21:49	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 21:49	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 21:49	BRF
1,4-Dichlorobenzene	0.19	0.10		1.1	0.60	2	7/8/21 21:49	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/8/21 21:49	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 21:49	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 21:49	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 21:49	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 21:49	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 21:49	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/8/21 21:49	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 21:49	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 21:49	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/8/21 21:49	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/8/21 21:49	BRF
Ethanol	23	4.0		44	7.5	2	7/8/21 21:49	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/8/21 21:49	BRF
Ethylbenzene	ND	0.10		ND	0.43	2	7/8/21 21:49	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/8/21 21:49	BRF
Heptane	ND	0.10		ND	0.41	2	7/8/21 21:49	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/8/21 21:49	BRF

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-4
Sample ID: 21G0029-03
Sample Matrix: Sub Slab
Sampled: 6/30/2021 15:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 2205
Canister Size: 6 liter
Flow Controller ID: 4311
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	7/8/21 21:49	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/8/21 21:49	BRF
Isopropanol	ND	4.0		ND	9.8	2	7/8/21 21:49	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/8/21 21:49	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/8/21 21:49	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/8/21 21:49	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/8/21 21:49	BRF
Propene	ND	4.0		ND	6.9	2	7/8/21 21:49	BRF
Styrene	ND	0.10		ND	0.43	2	7/8/21 21:49	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/8/21 21:49	BRF
Tetrachloroethylene	38	0.10		260	0.68	2	7/8/21 21:49	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/8/21 21:49	BRF
Toluene	0.25	0.10		0.93	0.38	2	7/8/21 21:49	BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34, Z-01	ND	0.74	2	7/8/21 21:49	BRF
1,1,1-Trichloroethane	0.42	0.10		2.3	0.55	2	7/8/21 21:49	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 21:49	BRF
Trichloroethylene	3.6	0.10		19	0.54	2	7/8/21 21:49	BRF
Trichlorofluoromethane (Freon 11)	77	0.40		430	2.2	2	7/8/21 21:49	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/8/21 21:49	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 21:49	BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 21:49	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/8/21 21:49	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/8/21 21:49	BRF
m&p-Xylene	0.26	0.20		1.1	0.87	2	7/8/21 21:49	BRF
o-Xylene	0.14	0.10		0.62	0.43	2	7/8/21 21:49	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	86.2	70-130	7/8/21 21:49

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-5
Sample ID: 21G0029-04
Sample Matrix: Sub Slab
Sampled: 6/30/2021 15:58

Sample Description/Location:
Sub Description/Location:
Canister ID: 2010
Canister Size: 6 liter
Flow Controller ID: 4213
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	12	4.0		28	9.5	2	7/8/21 22:40	BRF
Benzene	0.19	0.10		0.61	0.32	2	7/8/21 22:40	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/8/21 22:40	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/8/21 22:40	BRF
Bromoform	ND	0.10		ND	1.0	2	7/8/21 22:40	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/8/21 22:40	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/8/21 22:40	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/8/21 22:40	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/8/21 22:40	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/8/21 22:40	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/8/21 22:40	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/8/21 22:40	BRF
Chloroform	0.17	0.10		0.81	0.49	2	7/8/21 22:40	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/8/21 22:40	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/8/21 22:40	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/8/21 22:40	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/8/21 22:40	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 22:40	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 22:40	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/8/21 22:40	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/8/21 22:40	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 22:40	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/8/21 22:40	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 22:40	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 22:40	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/8/21 22:40	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/8/21 22:40	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 22:40	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/8/21 22:40	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/8/21 22:40	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/8/21 22:40	BRF
Ethanol	ND	4.0		ND	7.5	2	7/8/21 22:40	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/8/21 22:40	BRF
Ethylbenzene	0.12	0.10		0.52	0.43	2	7/8/21 22:40	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/8/21 22:40	BRF
Heptane	ND	0.10		ND	0.41	2	7/8/21 22:40	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/8/21 22:40	BRF

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ANALYTICAL RESULTS

Project Location: Bristol, RI
Date Received: 7/1/2021
Field Sample #: SG-5
Sample ID: 21G0029-04
Sample Matrix: Sub Slab
Sampled: 6/30/2021 15:58

Sample Description/Location:
Sub Description/Location:
Canister ID: 2010
Canister Size: 6 liter
Flow Controller ID: 4213
Sample Type: 30 min

Work Order: 21G0029
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	7/8/21 22:40	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/8/21 22:40	BRF
Isopropanol	ND	4.0		ND	9.8	2	7/8/21 22:40	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/8/21 22:40	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/8/21 22:40	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/8/21 22:40	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/8/21 22:40	BRF
Propene	ND	4.0		ND	6.9	2	7/8/21 22:40	BRF
Styrene	0.12	0.10		0.53	0.43	2	7/8/21 22:40	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/8/21 22:40	BRF
Tetrachloroethylene	1.7	0.10		11	0.68	2	7/8/21 22:40	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/8/21 22:40	BRF
Toluene	0.62	0.10		2.3	0.38	2	7/8/21 22:40	BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34, Z-01	ND	0.74	2	7/8/21 22:40	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 22:40	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/8/21 22:40	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/8/21 22:40	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/8/21 22:40	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/8/21 22:40	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 22:40	BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/8/21 22:40	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/8/21 22:40	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/8/21 22:40	BRF
m&p-Xylene	0.30	0.20		1.3	0.87	2	7/8/21 22:40	BRF
o-Xylene	0.13	0.10		0.57	0.43	2	7/8/21 22:40	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.8	70-130	7/8/21 22:40

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Sample Extraction Data

Prep Method: TO-15 Prep **Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21G0029-01 [SG-1]	B285631	1.5	1	N/A	1000	200	150	07/08/21
21G0029-02 [SG-2]	B285631	1.5	1	N/A	1000	200	150	07/08/21
21G0029-03 [SG-4]	B285631	1.5	1	N/A	1000	200	150	07/08/21
21G0029-04 [SG-5]	B285631	1.5	1	N/A	1000	200	150	07/08/21

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B285631 - TO-15 Prep											
Blank (B285631-BLK1)					Prepared & Analyzed: 07/08/21						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									Z-01
Propene	ND	0.80									
Styrene	ND	0.020									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B285631 - TO-15 Prep											
Blank (B285631-BLK1)					Prepared & Analyzed: 07/08/21						
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									V-34, Z-01
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									V-05
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	*7.27*				*8.00*		*90.9*	*70-130*			
LCS (B285631-BS1)					Prepared & Analyzed: 07/08/21						
Acetone	4.76				5.00		95.1	70-130			
Benzene	4.64				5.00		92.8	70-130			
Benzyl chloride	5.25				5.00		105	70-130			
Bromodichloromethane	5.05				5.00		101	70-130			
Bromoform	4.95				5.00		99.1	70-130			
Bromomethane	3.96				5.00		79.2	70-130			
1,3-Butadiene	3.86				5.00		77.1	70-130			
2-Butanone (MEK)	4.68				5.00		93.6	70-130			
Carbon Disulfide	4.58				5.00		91.5	70-130			
Carbon Tetrachloride	4.68				5.00		93.5	70-130			
Chlorobenzene	4.45				5.00		89.0	70-130			
Chloroethane	4.12				5.00		82.4	70-130			
Chloroform	4.30				5.00		86.0	70-130			
Chloromethane	4.43				5.00		88.5	70-130			
Cyclohexane	4.38				5.00		87.7	70-130			
Dibromochloromethane	4.75				5.00		94.9	70-130			
1,2-Dibromoethane (EDB)	4.75				5.00		95.0	70-130			
1,2-Dichlorobenzene	4.91				5.00		98.2	70-130			
1,3-Dichlorobenzene	5.05				5.00		101	70-130			
1,4-Dichlorobenzene	4.86				5.00		97.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.07				5.00		81.4	70-130			
1,1-Dichloroethane	4.33				5.00		86.7	70-130			
1,2-Dichloroethane	4.38				5.00		87.6	70-130			
1,1-Dichloroethylene	4.67				5.00		93.5	70-130			
cis-1,2-Dichloroethylene	4.26				5.00		85.2	70-130			
trans-1,2-Dichloroethylene	4.21				5.00		84.2	70-130			
1,2-Dichloropropane	4.78				5.00		95.7	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B285631 - TO-15 Prep												
LCS (B285631-BS1)					Prepared & Analyzed: 07/08/21							
cis-1,3-Dichloropropene	4.44				5.00		88.8		70-130			
trans-1,3-Dichloropropene	4.88				5.00		97.6		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3.85				5.00		77.1		70-130			
1,4-Dioxane	4.88				5.00		97.6		70-130			
Ethanol	5.22				5.00		104		70-130			
Ethyl Acetate	3.98				5.00		79.7		70-130			
Ethylbenzene	4.48				5.00		89.6		70-130			
4-Ethyltoluene	4.51				5.00		90.2		70-130			
Heptane	4.93				5.00		98.6		70-130			
Hexachlorobutadiene	4.46				5.00		89.2		70-130			
Hexane	4.61				5.00		92.2		70-130			
2-Hexanone (MBK)	5.81				5.00		116		70-130			
Isopropanol	4.07				5.00		81.5		70-130			
Methyl tert-Butyl Ether (MTBE)	3.77				5.00		75.4		70-130			
Methylene Chloride	5.17				5.00		103		70-130			
4-Methyl-2-pentanone (MIBK)	5.18				5.00		104		70-130			
Naphthalene	3.04				5.00		**60.7**	*	70-130			Z-01
Propene	4.06				5.00		81.2		70-130			
Styrene	4.52				5.00		90.4		70-130			
1,1,2,2-Tetrachloroethane	5.08				5.00		102		70-130			
Tetrachloroethylene	4.43				5.00		88.6		70-130			
Tetrahydrofuran	4.13				5.00		82.5		70-130			
Toluene	4.44				5.00		88.7		70-130			
1,2,4-Trichlorobenzene	3.37				5.00		**67.4**	*	70-130			Z-01, V-34
1,1,1-Trichloroethane	4.62				5.00		92.5		70-130			
1,1,2-Trichloroethane	4.80				5.00		95.9		70-130			
Trichloroethylene	4.82				5.00		96.4		70-130			
Trichlorofluoromethane (Freon 11)	4.12				5.00		82.4		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.39				5.00		87.8		70-130			
1,2,4-Trimethylbenzene	4.54				5.00		90.8		70-130			
1,3,5-Trimethylbenzene	4.69				5.00		93.8		70-130			
Vinyl Acetate	4.54				5.00		90.7		70-130			V-05
Vinyl Chloride	4.19				5.00		83.9		70-130			
m&p-Xylene	9.74				10.0		97.4		70-130			
o-Xylene	4.76				5.00		95.2		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*7.69*				*8.00*		*96.2*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B285631 - TO-15 Prep											
Duplicate (B285631-DUP1)			**Source: 21G0029-02**		Prepared & Analyzed: 07/08/21						
Acetone	4.9	4.0	12	9.5		4.8			0.0412	25	
Benzene	ND	0.10	ND	0.32		ND				25	
Benzyl chloride	ND	0.10	ND	0.52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	ND	4.0	ND	12		ND				25	
Carbon Disulfide	ND	1.0	ND	3.1		ND				25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	0.36	0.10	1.7	0.49		0.38			5.43	25	
Chloromethane	ND	0.20	ND	0.41		ND				25	
Cyclohexane	ND	0.10	ND	0.34		ND				25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	0.43	0.10	2.6	0.60		0.44			3.69	25	
Dichlorodifluoromethane (Freon 12)	ND	0.10	ND	0.49		ND				25	
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	1.0	ND	3.6		ND				25	
Ethanol	33	4.0	62	7.5		33			0.472	25	
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	0.13	0.10	0.55	0.43		0.14			7.63	25	
4-Ethyltoluene	ND	0.10	ND	0.49		ND				25	
Heptane	ND	0.10	ND	0.41		ND				25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	0.40	4.0	1.4	14		0.40			1.50	25	
2-Hexanone (MBK)	ND	0.10	ND	0.41		ND				25	
Isopropanol	ND	4.0	ND	9.8		ND				25	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	ND	1.0	ND	3.5		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.10	ND	0.41		ND				25	
Naphthalene	ND	0.10	ND	0.52		ND				25	Z-01
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	0.11	0.10	0.45	0.43		0.10			5.83	25	

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B285631 - TO-15 Prep											
Duplicate (B285631-DUP1)			**Source: 21G0029-02**		Prepared & Analyzed: 07/08/21						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	2.6	0.10	18	0.68		2.6			0.304	25	
Tetrahydrofuran	ND	1.0	ND	2.9		ND				25	
Toluene	0.44	0.10	1.7	0.38		0.42			4.16	25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	V-34, Z-01
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	0.19	0.10	1.0	0.54		0.23			15.2	25	
Trichlorofluoromethane (Freon 11)	0.39	0.40	2.2	2.2		0.38			1.04	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	ND	3.1		ND				25	
1,2,4-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
Vinyl Acetate	ND	2.0	ND	7.0		ND				25	V-05
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	0.39	0.20	1.7	0.87		0.39			0.00	25	
o-Xylene	0.19	0.10	0.83	0.43		0.20			3.08	25	
Surrogate: 4-Bromofluorobenzene (1)	*6.95*				*8.00*		*86.9*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S052381-ICV1)			Lab File ID: J2025821.D			Analyzed: 09/14/20 23:22			
Bromochloromethane (1)	159501	2.873	155833	2.873	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	756714	3.475	745760	3.475	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	686740	5.06	671608	5.057	102	60 - 140	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S061346-CCV1)			Lab File ID: J21A189004.D			Analyzed: 07/08/21 11:41			
Bromochloromethane (1)	157356	2.87	155833	2.873	101	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (1)	638767	3.472	745760	3.475	86	60 - 140	-0.0030	+/-0.50	
Chlorobenzene-d5 (1)	572744	5.057	671608	5.057	85	60 - 140	0.0000	+/-0.50	
LCS (B285631-BS1)			Lab File ID: J21A189005.D			Analyzed: 07/08/21 12:08			
Bromochloromethane (1)	154718	2.867	157356	2.87	98	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (1)	629101	3.472	638767	3.472	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	564227	5.057	572744	5.057	99	60 - 140	0.0000	+/-0.50	
Blank (B285631-BLK1)			Lab File ID: J21A189008.D			Analyzed: 07/08/21 13:37			
Bromochloromethane (1)	153553	2.853	157356	2.87	98	60 - 140	-0.0170	+/-0.50	
1,4-Difluorobenzene (1)	568518	3.465	638767	3.472	89	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	521545	5.053	572744	5.057	91	60 - 140	-0.0040	+/-0.50	
SG-1 (21G0029-01)			Lab File ID: J21A189019.D			Analyzed: 07/08/21 19:38			
Bromochloromethane (1)	156119	2.86	157356	2.87	99	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	569826	3.465	638767	3.472	89	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	520091	5.053	572744	5.057	91	60 - 140	-0.0040	+/-0.50	
SG-2 (21G0029-02)			Lab File ID: J21A189021.D			Analyzed: 07/08/21 20:30			
Bromochloromethane (1)	151655	2.86	157356	2.87	96	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	554837	3.468	638767	3.472	87	60 - 140	-0.0040	+/-0.50	
Chlorobenzene-d5 (1)	524986	5.054	572744	5.057	92	60 - 140	-0.0030	+/-0.50	
Duplicate (B285631-DUP1)			Lab File ID: J21A189022.D			Analyzed: 07/08/21 20:57			
Bromochloromethane (1)	150490	2.86	157356	2.87	96	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	555730	3.468	638767	3.472	87	60 - 140	-0.0040	+/-0.50	
Chlorobenzene-d5 (1)	530318	5.054	572744	5.057	93	60 - 140	-0.0030	+/-0.50	
SG-4 (21G0029-03)			Lab File ID: J21A189024.D			Analyzed: 07/08/21 21:49			
Bromochloromethane (1)	143197	2.86	157356	2.87	91	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	550533	3.475	638767	3.472	86	60 - 140	0.0030	+/-0.50	
Chlorobenzene-d5 (1)	539904	5.057	572744	5.057	94	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SG-5 (21G0029-04)			Lab File ID: J21A189026.D			Analyzed: 07/08/21 22:40			
Bromochloromethane (1)	146505	2.86	157356	2.87	93	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	519978	3.465	638767	3.472	81	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	479500	5.054	572744	5.057	84	60 - 140	-0.0030	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061346-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.86	0.9103154	0.8850047		-2.8	30
Benzene	A	5.00	4.78	0.6606025	0.6318197		-4.4	30
Benzyl chloride	A	5.00	4.94	0.5965762	0.5894319		-1.2	30
Bromodichloromethane	A	5.00	5.16	0.4537953	0.4678914		3.1	30
Bromoform	A	5.00	4.98	0.6600998	0.6568519		-0.5	30
Bromomethane	A	5.00	3.96	1.001177	0.7927807		-20.8	30
1,3-Butadiene	A	5.00	4.14	0.6246902	0.5173594		-17.2	30
2-Butanone (MEK)	A	5.00	4.58	1.30749	1.197997		-8.4	30
Carbon Disulfide	A	5.00	4.65	2.466469	2.291731		-7.1	30
Carbon Tetrachloride	A	5.00	4.77	0.5064752	0.4835616		-4.5	30
Chlorobenzene	A	5.00	4.53	0.7751296	0.7019848		-9.4	30
Chloroethane	A	5.00	4.05	0.5001442	0.4055517		-18.9	30
Chloroform	A	5.00	4.33	2.018779	1.748219		-13.4	30
Chloromethane	A	5.00	4.45	0.6141491	0.5465518		-11.0	30
Cyclohexane	A	5.00	4.45	0.2849344	0.2536061		-11.0	30
Dibromochloromethane	A	5.00	4.81	0.6429615	0.6185409		-3.8	30
1,2-Dibromoethane (EDB)	A	5.00	4.91	0.4841019	0.4754375		-1.8	30
1,2-Dichlorobenzene	A	5.00	4.75	0.6846313	0.6505552		-5.0	30
1,3-Dichlorobenzene	A	5.00	4.99	0.7215992	0.7200117		-0.2	30
1,4-Dichlorobenzene	A	5.00	4.81	0.7134896	0.6866453		-3.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.11	2.507091	2.06234		-17.7	30
1,1-Dichloroethane	A	5.00	4.31	1.545303	1.333354		-13.7	30
1,2-Dichloroethane	A	5.00	4.39	1.058805	0.9295407		-12.2	30
1,1-Dichloroethylene	A	5.00	4.59	1.160287	1.065569		-8.2	30
cis-1,2-Dichloroethylene	A	5.00	4.18	1.114268	0.9326927		-16.3	30
trans-1,2-Dichloroethylene	A	5.00	4.31	1.201908	1.035146		-13.9	30
1,2-Dichloropropane	A	5.00	4.83	0.2231134	0.2155903		-3.4	30
cis-1,3-Dichloropropene	A	5.00	4.48	0.3628898	0.3254896		-10.3	30
trans-1,3-Dichloropropene	A	5.00	4.68	0.3055463	0.2857505		-6.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.12	2.650055	2.185475		-17.5	30
1,4-Dioxane	A	5.00	4.59	0.139387	0.1278714		-8.3	30
Ethanol	A	5.00	4.16	0.1702165	0.1415898		-16.8	30
Ethyl Acetate	A	5.00	5.04	0.2280188	0.2298584		0.8	30
Ethylbenzene	A	5.00	4.62	1.161395	1.073599		-7.6	30
4-Ethyltoluene	A	5.00	4.58	1.262817	1.157501		-8.3	30
Heptane	A	5.00	5.01	0.1688454	0.1692536		0.2	30
Hexachlorobutadiene	A	5.00	4.59	0.6918294	0.6350314		-8.2	30
Hexane	L	5.00	4.53	0.6531603	0.5889016		-9.4	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061346-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone (MBK)	A	5.00	5.80	0.280065	0.3247831		16.0	30	
Isopropanol	A	5.00	5.12	1.001981	1.026442		2.4	30	
Methyl tert-Butyl Ether (MTBE)	A	5.00	3.89	2.512535	1.952871		-22.3	30	
Methylene Chloride	A	5.00	5.07	0.6621826	0.6719439		1.5	30	
4-Methyl-2-pentanone (MIBK)	A	5.00	5.24	0.1531114	0.1603289		4.7	30	
Naphthalene	A	5.00	3.90	1.086932	0.8469012		-22.1	30	
Propene	A	5.00	4.30	0.4641749	0.3992781		-14.0	30	
Styrene	A	5.00	4.54	0.7056488	0.6404174		-9.2	30	
1,1,2,2-Tetrachloroethane	A	5.00	5.07	0.638583	0.6475493		1.4	30	
Tetrachloroethylene	A	5.00	4.58	0.5546794	0.5080748		-8.4	30	
Tetrahydrofuran	A	5.00	4.29	0.7143044	0.6124813		-14.3	30	
Toluene	A	5.00	4.55	0.9345011	0.8510525		-8.9	30	
1,2,4-Trichlorobenzene	A	5.00	3.58	0.4260284	0.3054852		-28.3	30	
1,1,1-Trichloroethane	A	5.00	4.92	0.4496133	0.4424098		-1.6	30	
1,1,2-Trichloroethane	A	5.00	4.75	0.3281373	0.3119718		-4.9	30	
Trichloroethylene	A	5.00	4.98	0.2979469	0.2969421		-0.3	30	
Trichlorofluoromethane (Freon 11)	A	5.00	4.16	2.536841	2.10891		-16.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.34	1.957735	1.701182		-13.1	30	
1,2,4-Trimethylbenzene	A	5.00	4.59	1.026744	0.9424916		-8.2	30	
1,3,5-Trimethylbenzene	A	5.00	4.85	1.080978	1.048239		-3.0	30	
Vinyl Acetate	A	5.00	3.20	1.400965	0.8956201		-36.1	30	*
Vinyl Chloride	A	5.00	4.28	0.8554634	0.7320471		-14.4	30	
m&p-Xylene	A	10.0	9.93	0.9185043	0.9116743		-0.7	30	
o-Xylene	A	5.00	4.86	0.899786	0.8744486		-2.8	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

con-test ANALYTICAL LABORATORY
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Email: info@contestlabs.com

21G0009DTO

http://www.contestlabs.com

Doc #378 Rev 1_03242017

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:
Address: Nobis
Phone: 603-224-4182
Project Name: Robin Rug
Project Location: Bristol RI
Project Number: 0955160.26
Project Manager: Bettina Beames
Con-Test Quote Name/Number: order# 2106449
Invoice Recipient: Accounts Payable - Nobis
Sampled By: Saran Powers

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date: Standard turnaround

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: beamesa@nobis-group.com
Fax To #:

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15				" Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☒ L/min	Code	☒ Liters ☐ m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
01	SG-1	6/30/21 1345	6/30/21 1416	30	0.2 L/min	SS	6	✓				-30	-7	5.8	2057	4067
02	SG-2	6/30/21 1427	6/30/21 1457	30	0.2 L/min	SS	6	✓				-28	-4	1.6	1641	4076
03	SG-4	6/30/21 1457	6/30/21 1527	30	0.2 L/min	SS	6	✓				-29	-4	1.5	2205	4311
04	SG-5	6/30/21 1528	6/30/21 1558	30	0.2 L/min	SS	6	✓				-28	-5	1.4	2010	4213

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

	Date/Time:
Relinquished by: (signature) Saran Powers	6/30/21 2030
Received by: (signature)	7/1/21 1125
Relinquished by: (signature)	7/1/21 1605
Received by: (signature)	7/1 1605
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
C1
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client DCHD

Received By RLF Date 7/1/21 Time 1605

How were the samples received? In Cooler ____ On Ice ____ No Ice ____ In Box T Ambient ____ Melted Ice ____

Were samples within Temperature Compliance? 2-6°C NA By Gun # ____ Actual Temp - ____ By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F

Is COC in ink/ Legible? T

Did COC Include all Pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample Labels filled out and legible? T

Are there Rushes? F Who was notified? ____

Samples are received within holding time? T

Proper Media Used? T Individually Certified Cans? F

Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	5	6L	5	30min	Nut/Ferrule	5	IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s					Reg #'s				
2057					4067				
1641					4076				
2205					4311				
2015					4213				
Unused Media					**Pufs/TO-17's**				
2144	(29.5)	4039							

Comments:

APPENDIX C

Conceptual Site Model and Proposed Future Redevelopment

Contaminants consist of oil (as petroleum) and polyaromatic nuclear hydrocarbons (PAHs) and metals (primarily arsenic and lead). These contaminants are associated with filling of the land with unknown fill mixed with quarry gravel to expand the buildable waterfront coupled with the long-time (100 + years) of industrial use of the main portion of the Site and incidental releases which occurred over time.

These contaminants are present in subsurface soils above the residential direct exposure criteria (RDEC) and/or the industrial/commercial DEC (ICDEC) on two of the Main Mill parcels (west of Thames Street) and on two of the parking lots (east of Thames Street). A summary of soil exceedances of the RDEC and/or ICDEC are summarized in Table 8 (See Attached). Thus, the direct contact/dermal absorption pathway is the only complete exposure pathway identified at the Site. Regarding groundwater: 1) no significant concentration of VOCs were detected in groundwater, 2) groundwater beneath the Site and surrounding areas is designated a GB Resource Area, and 3) the Site and surrounding area is serviced by a public municipal drinking water supply. Thus, the drinking water pathway is considered incomplete and not a concern. No significant detections of VOCs were detected in soil gas beneath the subslab of the Main Mill parcel and no residential units are planned on the basement and/or first/ground floor level. Thus, the indoor air pathway (vapor intrusion) is incomplete and also not a concern. The past, current and proposed future use of the west and east portions of the Site are described as follows:

Main Mill Parcels (West of Thames Street)- The large multi-story Main Mill building is mostly unoccupied and is largely underutilized and has been for several years. Current activities involve light industrial work (braided rug manufacturing) primarily on the ground and first floor in the northernmost building of the Mill Complex only. The future proposed use of the Main Mill Parcels will include redevelopment of the existing Mill Buildings into residential apartments/condominiums. Most of these parcels are covered by either a building and/or asphalt. A small portion of the western portion of these parcels (the area between the buildings and Bristol Harbor) is unpaved.

Parking Lot Parcels (East of Thames Street) – These parcels have had more of a residential use and most recently have been used as vehicular parking for adjacent residential properties. The future proposed use of the Parking Lot Parcels is the same as the current use (parking) but will be upgraded and improved with new features including: an asphalt cap, curbing and perimeter landscaping, security lighting and stormwater management features.

Brady Sullivan is proposing to redevelop the Robin Rug Mill Complex. The proposed project will be named the Bristol Yarn Mill. The existing multi-story Main Mill building are proposed to be converted into 127 loft-style residential apartments (mostly 2-bedroom rentals) and approximately 6,300 SF of leasable space for commercial use will be provided on the ground/first floor. The development will include 150 interior parking spaces (on Main Mill parcels) and 150 exterior spaces (east of Thames Street). A riverwalk will be constructed along the Harbor which will connect to Independence Park and provide public access to the waterfront. Concept plans for the proposed project and that were submitted as part of the recent (June 2021) pre-application/concept review to the Town of Bristol Department of Community Development are attached.

Brady Sullivan has successfully redeveloped serval historic mill properties (like Robin Rug). Examples of previous mill building to residential loft conversions completed by Brady Sullivan have included: Harris Mill Lofts in Coventry, Pocasset Mill Lofts in Johnston and US Rubber Lofts in Providence, Rhode Island.

Remedial Alternatives Analysis Objectives

As part of this SIR Addendum, Nobis conducted a Remedial Alternatives Analysis (RAA) to address the presence of oil (petroleum) and hazardous materials present in subsurface soils and which exceeds the RDEC and ICDEC at the Site. The purpose of the RRA is to identify a minimum of two (2) potential alternatives (excluding no action or natural attenuation) that will reduce or limit risk to human health associated with the direct contact exposure pathway associated with soil.

Description of Remedial Alternatives

The soil data and remedial alternatives for soil were evaluated against based upon several factors including: cost effectiveness, permanency of the alternative, risk management under current and/or future use scenarios (per Section 1.9.2 – Soil Objectives) and technical feasibility. Additionally, compliance with state and local laws or other public concerns, the Performing Party's ability and site background conditions were also considered for each alternative.

Each alternative was separately evaluated with respect to the Main Mill Parcels (west of Thames Street)and the Parking Lot Parcels (east of Thames Street) against each proposed alternative, which are as follows:

Alternative No. 1	Soil Excavation and Off-Site Disposal
Alternative No. 2	Engineered Controls
Alternative No. 3	Environmental Land Use Control and Soil Management Plan

Alternative No. 1 Soil Excavation and Off-Site Disposal

Description of Alternative

This alternative involves the excavation and off-site disposal off-site to a licensed facility.

On the Main Mill Parcel, the contaminants exceeding the RDEC and/or IDEC on the Main Mill parcels include PAHs, petroleum, lead and arsenic are located at depths from ground surface (0 feet) in the unpaved western portion of the site to depth up to 4 feet below grade located beneath paved areas. It is likely that these contaminants are located at similar depths within multiple subsurface utility corridors between the Mill buildings and beneath the footprint of the entire mill building complex. This alternative would be an enormous undertaking and would take a very long time. Excavation of soils from beneath the existing buildings would require demolition of the structure and removal of an enormously large volume of soil and backfilling, rebuild of existing structures (some subject to historical preservation), the associated subsurface utility corridors and asphalt and/or concrete pavements in order to achieve the end goal of the project.

On the Parking Lot Parcels, excavation up to depths of 9 to 10 feet in areas around SB-8 and TP-6 would need to be conducted to remove petroleum and arsenic above the RDEC. Exceedance of the ICDEC are located at mixed depths including 0 – 3.5 feet (lead a TP-7) and 7 to 9 feet (arsenic at SB-8). Further delineation around TP-7 would be needed around TP-7 which appears to be a "hot spot" (lead = 4.600 m/kg). Concentrations of arsenic are low (8 to 8.5 mg/kg) in soil and slightly above the RDEC and ICDEC of 7.0 mg/kg. Arsenic is presumed to be consistent with background concentrations on the Parking Lot Parcels. Excavation of soils on the unpaved parking lot parcels would generate a relatively large volume of soil (but less than at the Main Mill Parcels), management off-site and backfilling. The subgrade would need rebuild and restoration to support new parking lot construction which is the end goal of the project.

Compliance with Section 1.8 of the Remediation Regulations

This alternative would provide compliance with Section 1.8 of the Remediation Regulations, however , the cost to execute this alternative on the Main Mill Parcel would be cost prohibitive for the end goal of the project. On the Parking Lot Parcels, full soil excavation and off-site disposal across the entire Lots 10-43 and 10-76 would be cost prohibitive to the end goal of the

project. Localized soil excavation for the elevated lead in shallow soil (0 to 3.5 feet) around TP-7 on Lot 10-76 is suggested as these shallow lead impacted soils could be removed (in association with improvement to the parking lot sub-base) during rebuilding of the parking lot during project implementation. However, potential exposures to lead-impacted soils at TP-7 which are above the ICDEC could be managed via Alternative No. 2 (Capping) and Alternative No. 3 (ELUR with SMP). The full extent of lead impacted soils and volumes around TP-7 can be assessed during project execution.

Technical Feasibility

Implementation of soil excavation and off-site disposal is not considered to be technically or financially feasible on the Main Mill Parcels. Fill material with quarry gravel from an unknown source was historically used to expand the land area upon which the present Mill Complex is situated. Thus, soil on the Main Mill Parcels with RDEC and/or ICDEC exceedances is relatively inaccessible "as is" and covered by either a large building structure or pavement. Excavation of soils from the western portion of the Main Mill parcels (around TP-1, TP-2 and TP-3) where building and pavement are absent) would consist of a very large volume of impacted fill/quarry gravel materials (with unknown depths) as the depth of the fill/quarry gravel mix is unknown. Soils in this unpaved area would be best left in place as soil removal could impact the stability of the shoreline along Bristol Harbor and impact future construction of the proposed Harbors' Edge Walk. Exposure to near surface contaminated soils in the unpaved portion of the Main Mill can be managed via other means (i.e. Alternative No. 3).

Compliance with State and Local Laws and Other Public Concerns

This alternative would comply with state laws, including the Remediation Regulations. However, any proposed excavation from within the boundaries of most of the Main Mill Parcels would require approvals from the Coastal Resource Management Council (CRMC) and likely the Town. No specific local law or public concerns are known to be violated by this alternative. On the Parking Lot Parcels, this alternative is not anticipated to violate a specific local law or public concern.

Ability to Perform

Brady Sullivan, the Performing Party, is not able to perform this alternative to the full extent on the Main Mill Parcel and/or to the full extent on the Parking Lot Parcels as it would be cost prohibitive to the end goal of the project.

Alternative No. 2 Engineered Controls

Engineered controls would involve the use of a combination of strategies or "controls" designed to protect future site receptors from the contaminants in near and subsurface soil. Engineered controls can take the from of a number of various strategies and depend on the contamination present at the site. Engineered Controls can include, but not be limited to, such strategies as:

- Use of two feet of clean fill,
- Use of one foot of clean fill over geotextile liner (or marker barrier),
- Asphalt (minimum six inches of clean fill and four inches of asphalt),
- Concrete (minimum six inches of clean fill and four inches of concrete),
- Building foundation(s),
- Fencing,
- Restricted access,
- Impermeable cap (to prevent infiltration), and,
- Passive SSDS vapor barrier (for sites with vapor intrusion issues).

Several of these engineered controls will help to prevent direct contact to soil and minimize the leachability of the COCs (primarily metals) to groundwater. The identified COCs in soil on the Main Mill Parcels have shown little leaching and negative impacts on groundwater quality due to the presence of many of these controls, which currently exist. On the Parking Lot Parcels (most of which is currently unpaved), the construction of a new paved parking lot and maintenance of a capped surface would achieve the project risk management goals. Engineered Controls is recommended in conjunction with Alternative No. 3 for both the Main Mill Parcels and the Parking Lot Parcels.

Compliance with Section 1.8 of the Remediation Regulations

This alternative would provide compliance with Section 1.8 of the Remediation.

Technical Feasibility

Implementation of this alternative is technically feasible.

Compliance with State and Local Laws and Other Public Concerns

This alternative would comply with state laws, including the Remediation Regulations. This alternative is not anticipated to violate a specific local law or public concern for the Parking Lot Parcels. However, the use of asphalt or concrete pavement directly along the harbor front and west of the Main Mill Buildings may violate law or public concern and would not be consistent

with planned redevelopment of this portion of the site. This portion of the Site (adjacent to the harbor) is within the boundary of the CRMC and is proposed for construction of a public access harbor walk and thus will remain unpaved and surrounded by new and improved landscaping (i.e. wild grasses and flowers and small shrubs), etc.. The use of fencing and restricted access signage around the unpaved soil areas adjacent to the riverwalk (to prevent contact with near surface soils) will be utilized as engineered controls.

Ability to Perform

Brady Sullivan, the Performing Party, is able to perform this alternative.

Alternative No. 3 Environmental Land Use Control and Soil Management Plan

Environmental Land Use Control (ELUR) is a form of Institution Control that would be placed upon the land and recorded against the property deed (s). An ELUR would allow soil exceeding the Method 1 RDEC and/or ICDEC to remain in-place but under the Institutional Control of an ELUR. An Environmental Land Usage Restriction (ELUR) and an associated Soils Management Plan (SMP) would be placed on the property allowing certain activities and uses (i.e residential use with apartment style management) and future utility or construction work with conditions and prohibit certain activities and uses (i.e. single family residential use) provided that certain obligations and conditions are met. Obligations and conditions would include such things as: no gardening or growing of vegetables, annual inspections of restricted areas and any excavation work to be done under a Soil Management Plan (SMP). The ELUR would include an annual Site inspection and self-certification and reporting to RIDEM that the ELUR was being complied with.

Compliance with Section 1.8 of the Remediation Regulations

This alternative would comply with state laws, including the Remediation Regulations. This alternative would be used to allow residential apartment-condominium style use of the Main Mill Parcels only.

Technical Feasibility

Implementation of this alternative is considered technically and financially feasible on both the Main Mill Parcels and for the Parking Lot Parcels.

Compliance with State and Local Laws and Other Public Concerns

This alternative would comply with state laws, including the Remediation Regulations. This alternative is not anticipated to violate a specific local law or public concern. This alternative may require notification to easement holders and notification to utilities which may conduct excavation work within the ELUR-restricted areas in the future.

Ability to Perform

Brady Sullivan, the Performing Party is able to perform this alternative.

Recommended Remedial Alternatives

For the Main Mill Parcels Lots 10-42, 10-60, 10-61, 10-62 and 10-73 which are located west of Thames Street, the selected remedial alternative(s) include:

Alternative No. 2	Engineered Controls, and
Alternative No. 3	ELUR with SMP.

Engineered controls to be used on the Main Mill Parcels will include a combination of controls, including: 2 feet of clean fill in utility corridors, capping via use of asphalt pavement in vehicular parking areas, capping via use of concrete/pavers in walkway areas, maintenance of existing buildings/foundations and restricted access via the use of fencing and signage in portions to remain unpaved and where soil could be deemed "accessible" or "potentially accessible".

For the Parking Lot Parcels (Lots 10-41, 10-43, 10-44, 10-39, 10-68, 10-74 and 10-76) which are located east of Thames Street, the selected remedial alternative(s) include:

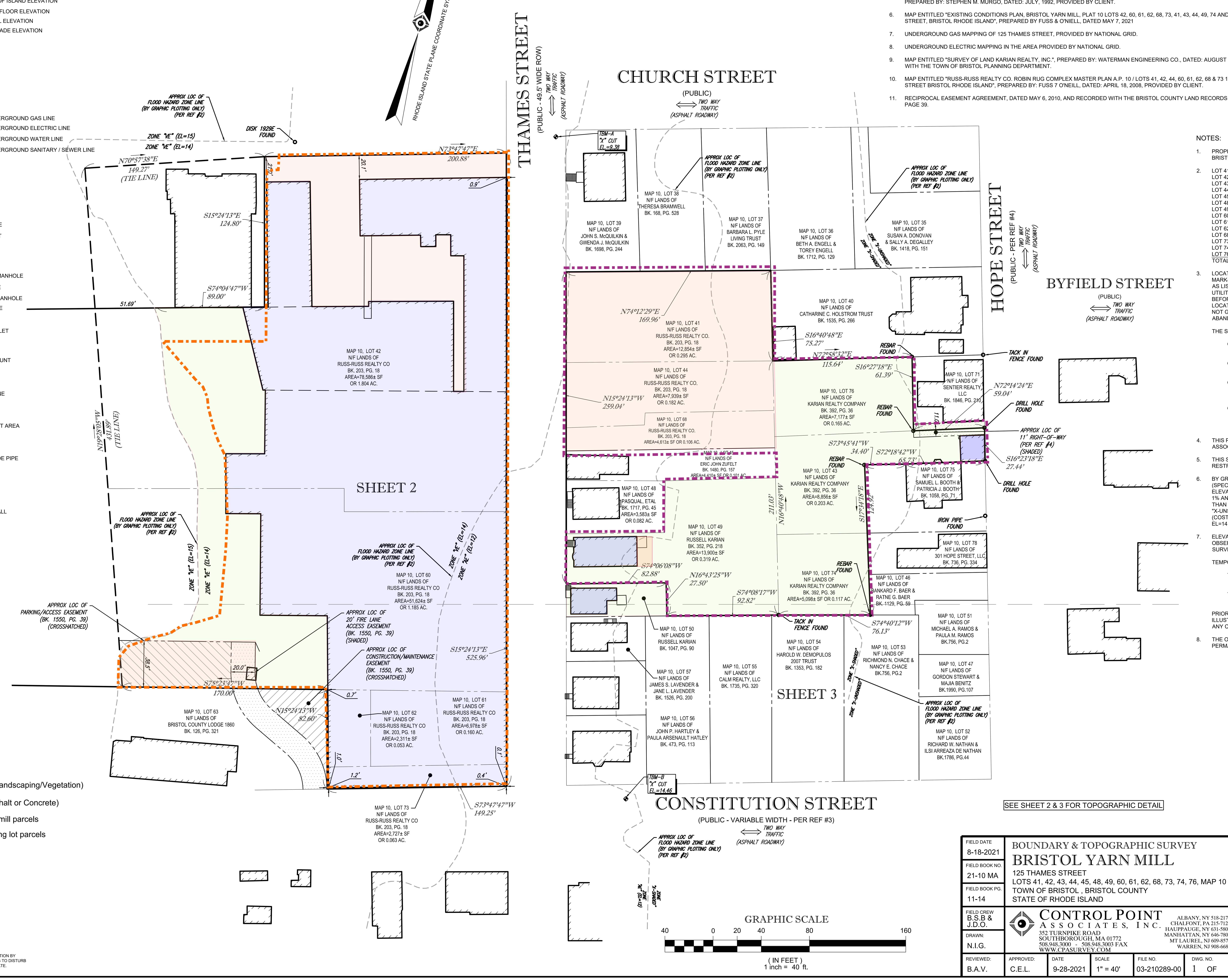
Alternative No. 1	Soil Excavation and Off-Site Disposal (To remove lead-impacted soils around TP-7 only on Lot 10-76), and,
Alternative No. 2	Engineered Controls, and
Alternative No. 3	ELUR with SMP.

Engineered controls to be used on the Parking Lot Parcels will include: the use of new asphalt pavement as a cap for construction of the new parking lot, including 2 feet of clean fill beneath the new paved parking lot.

APPENDIX D

LEGEND

- EXISTING CONTOUR (124 / 125)
- EXISTING SPOT ELEVATION (× 123.45)
- EXISTING TOP OF CURB ELEVATION (× TC 123.45)
- EXISTING GUTTER ELEVATION (× G 122.95)
- EXISTING TOP OF WALL ELEVATION (× TW 123.45)
- EXISTING BOTTOM OF WALL ELEVATION (× BW 122.95)
- EXISTING TOP OF ISLAND ELEVATION (× TI 123.45)
- EXISTING BOTTOM OF ISLAND ELEVATION (× BI 122.95)
- EXISTING FINISHED FLOOR ELEVATION (× FF 123.45)
- EXISTING DOOR SILL ELEVATION (× DS 123.45)
- EXISTING LEGAL GRADE ELEVATION (× [LG 125.45])
- HYDRANT
- WATER VALVE (WV)
- UNKNOWN VALVE (VALVE)
- GAS VALVE (GV)
- GAS METER (GM)
- ELECTRIC METER (EM)
- OVERHEAD WIRES (OH)
- APPROX. LOC. UNDERGROUND GAS LINE (G)
- APPROX. LOC. UNDERGROUND ELECTRIC LINE (E)
- APPROX. LOC. UNDERGROUND WATER LINE (W)
- APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE (S)
- UTILITY POLE (UP)
- AREA LIGHT
- SIGN
- BOLLARD
- CLF — CHAIN LINK FENCE
- DC — DEPRESSED CURB
- EOC — EDGE OF CONCRETE
- EOP — EDGE OF PAVEMENT
- LSA — LANDSCAPED AREA
- MC — METAL COVER
- (TYP) — TYPICAL
- DMH — DRAINAGE/STORM MANHOLE
- EMH — ELECTRIC MANHOLE
- SMH — SANITARY/SEWER MANHOLE
- MH — UNKNOWN MANHOLE
- WMH — WATER MANHOLE
- CB — CATCH BASIN OR INLET
- TREE & TRUNK SIZE
- PARKING SPACE COUNT (10)
- DEPRESSED CURB
- SWL — SOLID WHITE LINE
- DYL — DOUBLE YELLOW LINE
- HT — HEIGHT
- BLDG — BUILDING
- BFPA — BUILDING FOOTPRINT AREA
- NVP — NO VISIBLE PIPE
- DHF — DRILL HOLE FOUND
- PVC — POLYVINYL CHLORIDE PIPE
- CI — CAST IRON PIPE
- DI — DUCTILE IRON PIPE
- INV — INVERT ELEVATION
- GRT — GRATE ELEVATION
- MBW — MASONRY BLOCK WALL



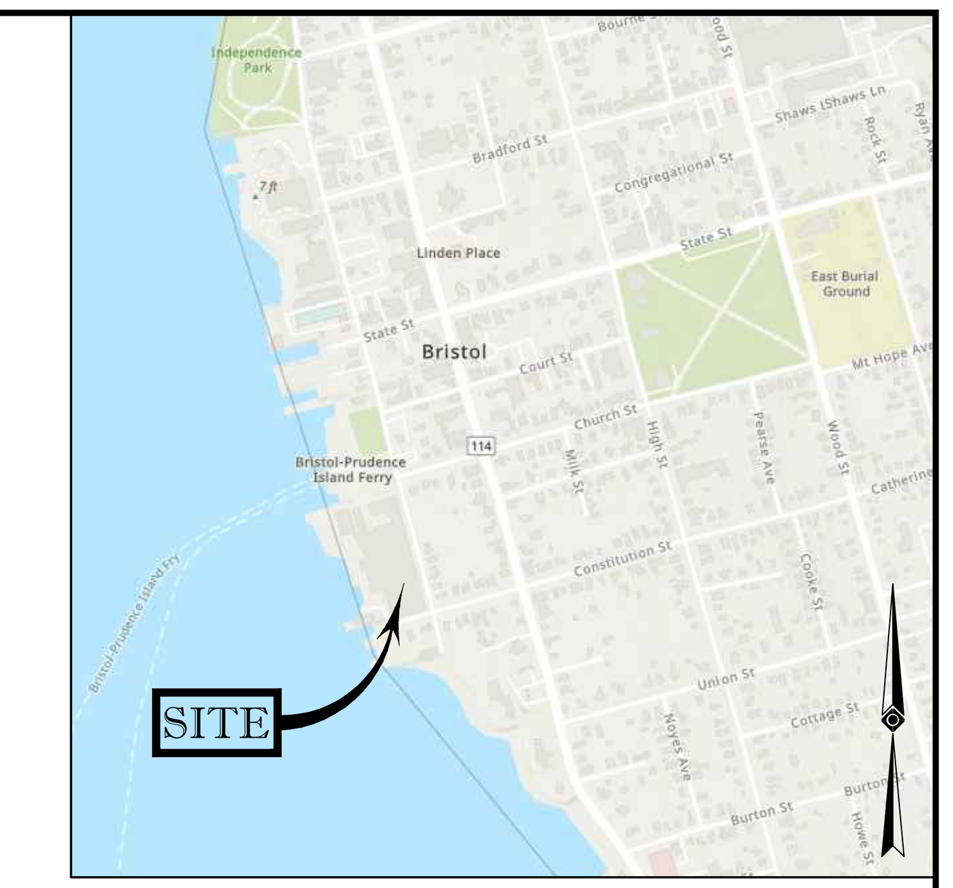
RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83
THAMES STREET
(PUBLIC - 49.5' WIDE ROW)
TWO WAY TRAFFIC (ASPHALT ROADWAY)
CHURCH STREET
(PUBLIC)
TWO WAY TRAFFIC (ASPHALT ROADWAY)
HOPE STREET
(PUBLIC - PER REF #4)
TWO WAY TRAFFIC (ASPHALT ROADWAY)
BYFIELD STREET
(PUBLIC)
TWO WAY TRAFFIC (ASPHALT ROADWAY)
CONSTITUTION STREET
(PUBLIC - VARIABLE WIDTH - PER REF #3)
TWO WAY TRAFFIC (ASPHALT ROADWAY)
APPROX LOC OF FLOOD HAZARD ZONE LINE (BY GRAPHIC PLOTTING ONLY) (PER REF #2)
ZONE "VE" (EL=15)
ZONE "VE" (EL=14)
DISK 1929E FOUND
N70°57'38"E 149.27' (TIE LINE)
N73°47'47"E 200.88'
S15°24'13"E 124.80'
S74°04'47"W 89.00'
51.69'
N19°28'05"W 431.89' (TIE LINE)
MAP 10, LOT 42 N/F LANDS OF RUSS-RUSS REALTY CO BK. 203, PG. 18 AREA=78,586± SF OR 1.804 AC.
SHEET 2
ZONE "VE" (EL=14)
ZONE "AE" (EL=12)
MAP 10, LOT 60 N/F LANDS OF RUSS-RUSS REALTY CO BK. 203, PG. 18 AREA=51,624± SF OR 1.185 AC.
APPROX LOC OF PARKING/ACCESS EASEMENT (BK. 1550, PG. 39) (CROSSHATCHED)
APPROX LOC OF 20' FIRE LANE ACCESS EASEMENT (BK. 1550, PG. 39) (SHADED)
APPROX LOC OF CONSTRUCTION/MAINTENANCE EASEMENT (BK. 1550, PG. 39) (CROSSHATCHED)
S15°24'13"E 525.96'
S75°23'47"W 170.00'
N15°24'13"W 82.60'
MAP 10, LOT 63 N/F LANDS OF BRISTOL COUNTY LODGE 1860 BK. 126, PG. 321
MAP 10, LOT 62 N/F LANDS OF RUSS-RUSS REALTY CO BK. 203, PG. 18 AREA=2,311± SF OR 0.053 AC.
MAP 10, LOT 61 N/F LANDS OF RUSS-RUSS REALTY CO BK. 203, PG. 18 AREA=6,978± SF OR 0.160 AC.
MAP 10, LOT 73 N/F LANDS OF RUSS-RUSS REALTY CO BK. 203, PG. 18 AREA=2,727± SF OR 0.063 AC.
S73°47'47"W 149.25'
TBM-A "X" CUT EL.=9.38
MAP 10, LOT 39 N/F LANDS OF JOHN S. McQUILKIN & GWENDA J. McQUILKIN BK. 1698, PG. 244
MAP 10, LOT 38 N/F LANDS OF THERESA BRAMWELL BK. 168, PG. 528
MAP 10, LOT 37 N/F LANDS OF BARBARA L. PYLE LIVING TRUST BK. 2063, PG. 149
MAP 10, LOT 36 N/F LANDS OF BETH A. ENGELL & TOREY ENGELL BK. 1712, PG. 129
MAP 10, LOT 35 N/F LANDS OF SUSAN A. DONOVAN & SALLY A. DEGALLEY BK. 1418, PG. 151
ZONE "X-UNSHADED"
ZONE "X-SHADED"
MAP 10, LOT 40 N/F LANDS OF CATHARINE C. HOLSTROM TRUST BK. 1535, PG. 266
N74°12'29"E 169.96'
MAP 10, LOT 41 N/F LANDS OF RUSS-RUSS REALTY CO. BK. 203, PG. 18 AREA=12,854± SF OR 0.295 AC.
MAP 10, LOT 44 N/F LANDS OF RUSS-RUSS REALTY CO. BK. 203, PG. 18 AREA=7,939± SF OR 0.182 AC.
N15°24'13"W 259.04'
MAP 10, LOT 68 N/F LANDS OF RUSS-RUSS REALTY CO. BK. 203, PG. 18 AREA=4,613± SF OR 0.106 AC.
S16°40'48"E 75.27'
N72°58'32"E 115.64'
S16°27'18"E 61.39'
REBAR FOUND
TACK IN FENCE FOUND
MAP 10, LOT 71 N/F LANDS OF SENTIER REALTY, LLC BK. 1846, PG. 210
N72°14'24"E 59.04'
DRILL HOLE FOUND
APPROX LOC OF 11' RIGHT-OF-WAY (PER REF #4) (SHADED)
MAP 10, LOT 76 N/F LANDS OF KARIAN REALTY COMPANY BK. 392, PG. 36 AREA=7,177± SF OR 0.165 AC.
S73°45'41"W 34.40'
S72°18'42"W 65.73'
S16°23'18"E 27.44'
MAP 10, LOT 45 N/F LANDS OF ERIC JOHN ZUFELT BK. 1480, PG. 157 AREA=4,410± SF OR 0.101 AC.
MAP 10, LOT 43 N/F LANDS OF KARIAN REALTY COMPANY BK. 392, PG. 36 AREA=8,856± SF OR 0.203 AC.
MAP 10, LOT 75 N/F LANDS OF SAMUEL L. BOOTH & PATRICIA J. BOOTH BK. 1058, PG. 71
MAP 10, LOT 48 N/F LANDS OF PASQUAL, ETAL BK. 1717, PG. 45 AREA=3,583± SF OR 0.082 AC.
211.03'
N16°40'48"W
S17°34'18"E
124.92'
IRON PIPE FOUND
MAP 10, LOT 49 N/F LANDS OF RUSSELL KARIAN BK. 352, PG. 218 AREA=13,900± SF OR 0.319 AC.
MAP 10, LOT 78 N/F LANDS OF 301 HOPE STREET, LLC BK. 736, PG. 334
S74°06'08"W 82.88'
N16°43'25"W 27.50'
S74°08'17"W 92.82'
MAP 10, LOT 74 N/F LANDS OF KARIAN REALTY COMPANY BK. 392, PG. 36 AREA=5,098± SF OR 0.117 AC.
MAP 10, LOT 46 N/F LANDS OF BANKARD F. BAER & RATNE G. BAER BK. 1129, PG. 59
S74°40'12"W 76.13'
MAP 10, LOT 50 N/F LANDS OF RUSSELL KARIAN BK. 1047, PG. 90
MAP 10, LOT 54 N/F LANDS OF HAROLD W. DEMOPULOS 2007 TRUST BK. 1353, PG. 182
MAP 10, LOT 53 N/F LANDS OF RICHMOND N. CHACE & NANCY E. CHACE BK.756, PG.2
MAP 10, LOT 51 N/F LANDS OF MICHAEL A. RAMOS & PAULA M. RAMOS BK.756, PG.2
MAP 10, LOT 57 N/F LANDS OF JAMES S. LAVENDER & JANE L. LAVENDER BK. 1526, PG. 200
MAP 10, LOT 55 N/F LANDS OF CALM REALTY, LLC BK. 1735, PG. 320
SHEET 3
MAP 10, LOT 47 N/F LANDS OF GORDON STEWART & MAJIA BENITZ BK.1990, PG.107
MAP 10, LOT 56 N/F LANDS OF JOHN P. HARTLEY & PAULA ARSENAULT HATLEY BK. 473, PG. 113
MAP 10, LOT 52 N/F LANDS OF RICHARD W. NATHAN & ILSI ARREAZA DE NATHAN BK.1786, PG.44
TBM-B "X" CUT EL.=14.46
GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

- Buildings
- Unpaved Areas (Landscaping/Vegetation)
- Paved Areas (Asphalt or Concrete)
- Boundary of main mill parcels
- Boundary of parking lot parcels

SEE SHEET 2 & 3 FOR TOPOGRAPHIC DETAIL

REFERENCES:

1. THE TAX ASSESSOR'S MAP OF BRISTOL, BRISTOL COUNTY, MAP 10.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, BRISTOL COUNTY, RHODE ISLAND 9ALL JURISDICTIONS), PANEL 14 OF 18", MAP NUMBER 44001C0014H, MAP REVISED: JULY 7, 2014.
3. MAP ENTITLED "BOUNDARY SURVEY PLAN AP 10 - LOTS 60, 61, 62 & 73 THAMES STREET & CONSTITUTION STREET BRISTOL, RHODE ISLAND RUSS - RUSS REALTY CO. C/O ROBIN RUG COMPANY 125 THAMES STREET P.O. BOX 656 BRISTOL, RHODE ISLAND 02809", PREPARED BY: WATERMAN ENGINEERING CO., DATED: FEBRUARY 1, 2005, PROVIDED BY CLIENT.
4. MAP ENTITLED "BOUNDARY SURVEY PLAN A.P. 10, LOTS 43, 71, 74 & 76 HOPE STREET BRISTOL RHODE ISLAND KARIAN REALTY CO. P.O. BOX 656 BRISTOL, RHODE ISLAND", PREPARED BY: WATERMAN ENGINEERING CO., DATED: FEBRUARY 26, 2021, PROVIDED BY CLIENT.
5. MAP ENTITLED "PLAN OF LAND: THEODORE J. & HELEN T. ALIGLET, LOCATION: 12 BUTTERWORTH AVENUE BRISTOL, RHODE ISLAND", PREPARED BY: STEPHEN M. MURGO, DATED: JULY, 1992, PROVIDED BY CLIENT.
6. MAP ENTITLED "EXISTING CONDITIONS PLAN, BRISTOL YARN MILL, PLAT 10 LOTS 42, 60, 61, 62, 68, 73, 41, 43, 44, 49, 74 AND 76, 125 THAMES STREET, BRISTOL RHODE ISLAND", PREPARED BY FUSS & O'NIELL, DATED MAY 7, 2021
7. UNDERGROUND GAS MAPPING OF 125 THAMES STREET, PROVIDED BY NATIONAL GRID.
8. UNDERGROUND ELECTRIC MAPPING IN THE AREA PROVIDED BY NATIONAL GRID.
9. MAP ENTITLED "SURVEY OF LAND KARIAN REALTY, INC.", PREPARED BY: WATERMAN ENGINEERING CO., DATED: AUGUST 1990, ON FILE WITH THE TOWN OF BRISTOL PLANNING DEPARTMENT.
10. MAP ENTITLED "RUSS-RUSS REALTY CO. ROBIN RUG COMPLEX MASTER PLAN A.P. 10 / LOTS 41, 42, 44, 60, 61, 62, 68 & 73 125 THAMES STREET BRISTOL RHODE ISLAND", PREPARED BY: FUSS 7 O'NEILL, DATED: APRIL 18, 2008, PROVIDED BY CLIENT.
11. RECIPROCAL EASEMENT AGREEMENT, DATED MAY 6, 2010, AND RECORDED WITH THE BRISTOL COUNTY LAND RECORDS IN BOOK 1550, PAGE 39.



LOCUS MAP
© 2013 ESRI WORLD STREET MAPS
NOT TO SCALE

NOTES:

1. PROPERTY KNOWN AS LOTS 41, 42, 43, 44, 45, 48, 49, 60, 61, 62, 68, 73, 74 & 76 AS SHOWN ON THE TOWN OF BRISTOL, BRISTOL COUNTY, STATE OF RHODE ISLAND MAP NO. 10.
2. LOT 41 AREA = 12,854 SQUARE FEET OR 0.295 ACRES
   LOT 42 AREA = 78,586 SQUARE FEET OR 1.804 ACRES
   LOT 43 AREA = 8,856 SQUARE FEET OR 0.203 ACRES
   LOT 44 AREA = 7,939 SQUARE FEET OR 0.182 ACRES
   LOT 45 AREA = 4,410 SQUARE FEET OR 0.101 ACRES
   LOT 48 AREA = 3,583 SQUARE FEET OR 0.082 ACRES
   LOT 49 AREA = 13,900 SQUARE FEET OR 0.319 ACRES
   LOT 60 AREA = 51,624 SQUARE FEET OR 1.185 ACRES
   LOT 61 AREA = 6,978 SQUARE FEET OR 0.160 ACRES
   LOT 62 AREA = 2,311 SQUARE FEET OR 0.053 ACRES
   LOT 68 AREA = 4,613 SQUARE FEET OR 0.106 ACRES
   LOT 73 AREA = 2,727 SQUARE FEET OR 0.063 ACRES
   LOT 74 AREA = 5,098 SQUARE FEET OR 0.117 ACRES
   LOT 76 AREA = 7,177 SQUARE FEET OR 0.165 ACRES
   TOTAL AREA = 210,656 SQUARE FEET OR 4.835 ACRES
3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.

   THE SOURCE OF UNDERGROUND UTILITIES ARE SHOWN UTILIZING A QUALITY LEVEL SYSTEM:

   QUALITY LEVEL D - UTILITIES SHOWN BASED UPON REFERENCE MAPPING OR ORAL HISTORY. NOT FIELD VERIFIED.

   QUALITY LEVEL C - LOCATION OF UTILITY SURFACE FEATURES SUPPLEMENTS REFERENCE MAPPING. INCLUDES MARKOUT BY OTHERS.

   QUALITY LEVEL B - UTILITY LOCATION DATA IS COLLECTED THROUGH GEOPHYSICAL SENSING TECHNOLOGY TO SUPPLEMENT SURFACE FEATURES AND OR REFERENCE MAPPING. INCLUDES MARKOUT BY CONTROL POINT ASSOCIATES, INC.

   QUALITY LEVEL A - HORIZONTAL AND VERTICAL LOCATION OF UTILITIES ARE OBTAINED USING VACUUM EQUIPMENT EXCAVATION OR OTHER METHODS TO EXPOSE THE UTILITY. LOCATION SHOWN AT SINGLE POINT WHERE EXCAVATION OCCURRED UNLESS UTILITY WAS LOCATED PRIOR TO FILLING.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
6. BY GRAPHIC PLOTTING ONLY A PORTION OF THE PROPERTY IS LOCATED IN FLOOD HAZARD ZONE "AE" (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, BASE FLOOD ELEVATIONS DETERMINED, EL=12), & ZONE "X SHADED" (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM %1 ANNUAL CHANCE FLOOD), & ZONE "X-UNSHADED" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), & ZONE "VE" (COSTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATIONS DETERMINED, EL=14 & EL=15) PER REF #2.
7. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS) TAKEN AT THE TIME OF THE FIELD SURVEY.

   TEMPORARY BENCH MARKS SET:

   TBM-A: X-CUT ON BONNET BOLT OF FIRE HYDRANT ALONG EASTERLY LINE OF THAMES STREET AT ELEVATION = 9.38'

   TBM-B: X-CUT ON BONNET BOLT OF FIRE HYDRANT ALONG NORTHERLY LINE OF CONSTITUTION STREET AT ELEVATION = 14.46'

   PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
8. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN:	APPROVED:	DATE
1	UPDATED PER RECEIPT OF CLIENT COMMENTS	--	A.L.S.	C.E.L.	10-01-2021

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 30, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY: COMPREHENSIVE BOUNDARY SURVEY — MEASUREMENT SPECIFICATION I
2. OTHER TYPE OF SURVEY: — MEASUREMENT SPECIFICATION:
   DATA ACCUMULATION SURVEY (TOPOGRAPHIC SURVEY) — III
   VERTICAL CONTROL STANDARD — V-3
   TOPOGRAPHIC SURVEY ACCURACY — T-2
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NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL.

CHARLES E. LENT
STATE OF RHODE ISLAND
No. 1947
HOPE
PROFESSIONAL LAND SURVEYOR

10-01-2021
DATE

CHARLES E. LENT
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1947
CERTIFICATE OF AUTHORIZATION #A350

BOUNDARY & TOPOGRAPHIC SURVEY
BRISTOL YARN MILL

125 THAMES STREET
LOTS 41, 42, 43, 44, 45, 48, 49, 60, 61, 62, 68, 73, 74, 76, MAP 10
TOWN OF BRISTOL , BRISTOL COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 - 508.948.3003 FAX
WWW.CPASURVEY.COM
ALBANY, NY 518-217-5010
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HAUPPAUGE, NY 631-580-2645
MANHATTAN, NY 646-780-0411
MT LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099

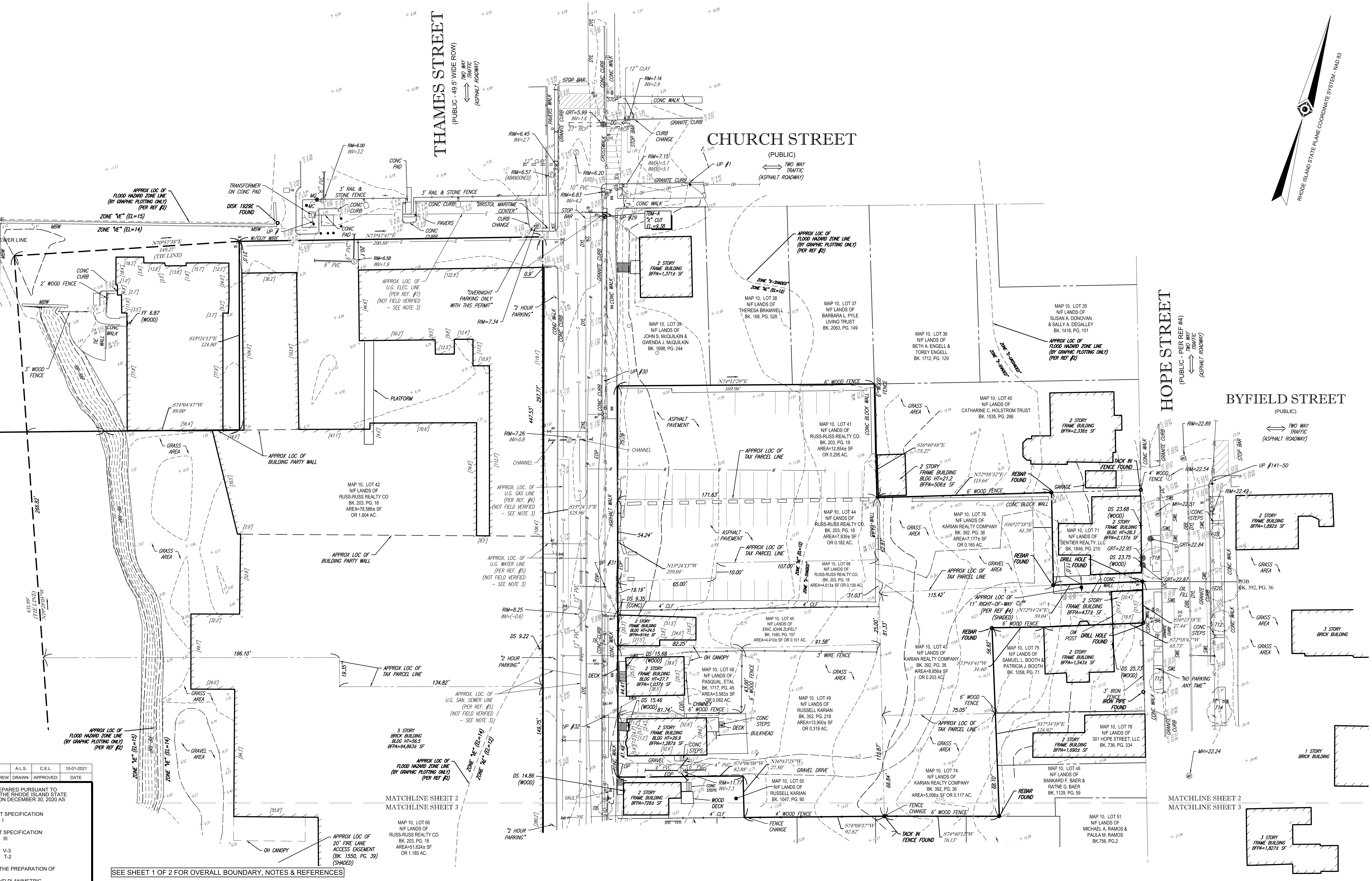
FIELD DATE	FIELD BOOK NO.	FIELD BOOK PG.	FIELD CREW	DRAWN:
8-18-2021	21-10 MA	11-14	B.S.B & J.D.O.	N.I.G.

REVIEWED:	APPROVED:	DATE	SCALE	FILE NO.	DWG. NO.
B.A.V.	C.E.L.	9-28-2021	1" = 40'	03-210289-00	1 OF 3

THE STATE OF RHODE ISLAND REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

LEGEND

— — 124 — — / — — 125 — —	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
× TC 123.45	EXISTING TOP OF CURB ELEVATION
× G 122.95	EXISTING GUTTER ELEVATION
× TW 123.45	EXISTING TOP OF WALL ELEVATION
× BW 122.95	EXISTING BOTTOM OF WALL ELEVATION
× TI 123.45	EXISTING TOP OF ISLAND ELEVATION
× BI 122.95	EXISTING BOTTOM OF ISLAND ELEVATION
× FF 123.45	EXISTING FINISHED FLOOR ELEVATION
× DS 123.45	EXISTING DOOR SILL ELEVATION
× [LG 125.45]	EXISTING LEGAL GRADE ELEVATION
	HYDRANT
WV	WATER VALVE
VALVE	UNKNOWN VALVE
GV	GAS VALVE
GM	GAS METER
EM	ELECTRIC METER
— OH —	OVERHEAD WIRES
— G —	APPROX. LOC. UNDERGROUND GAS LINE
— E —	APPROX. LOC. UNDERGROUND ELECTRIC LINE
— W —	APPROX. LOC. UNDERGROUND WATER LINE
— S —	APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE
UP #	UTILITY POLE
	AREA LIGHT
	SIGN
•	BOLLARD
CLF	CHAIN LINK FENCE
DC	DEPRESSED CURB
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
LSA	LANDSCAPED AREA
MC	METAL COVER
(TYP)	TYPICAL
Ⓓ DMH	DRAINAGE/STORM MANHOLE
Ⓔ EMH	ELECTRIC MANHOLE
Ⓢ SMH	SANITARY/SEWER MANHOLE
MH	UNKNOWN MANHOLE
WMH	WATER MANHOLE
CB	CATCH BASIN OR INLET
T#	TREE & TRUNK SIZE
10	PARKING SPACE COUNT
	DEPRESSED CURB
SWL	SOLID WHITE LINE
DYL	DOUBLE YELLOW LINE
HT	HEIGHT
BLDG	BUILDING
BFPA	BUILDING FOOTPRINT AREA
NVP	NO VISIBLE PIPE
DHF	DRILL HOLE FOUND
PVC	POLYVINYL CHLORIDE PIPE
CI	CAST IRON PIPE
DI	DUCTILE IRON PIPE
INV	INVERT ELEVATION
GRT	GRATE ELEVATION
MBW	MASONRY BLOCK WALL



SEE SHEET 1 OF 2 FOR OVERALL BOUNDARY, NOTES & REFERENCES

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CHARLES E. LENT — STATE OF RHODE ISLAND — No. 1947 — HOPE — PROFESSIONAL LAND SURVEYOR

10-01-2021
DATE

CHARLES E. LENT
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1947
CERTIFICATE OF AUTHORIZATION #A350

FIELD DATE	8-18-2021
FIELD BOOK NO.	21-10 MA
FIELD BOOK PG.	11-14
FIELD CREW	B.S.B & J.D.O.
DRAWN:	N.I.G.

BOUNDARY & TOPOGRAPHIC SURVEY
BRISTOL YARN MILL

125 THAMES STREET
LOTS 41, 42, 43, 44, 45, 48, 49, 60, 61, 62, 68, 73, 74, 76, MAP 10
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REVIEWED:	APPROVED:	DATE	SCALE	FILE NO.	DWG. NO.
B.A.V.	C.E.L.	9-28-2021	1" = 30'	03-210289-00	2 OF 3

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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LEGEND

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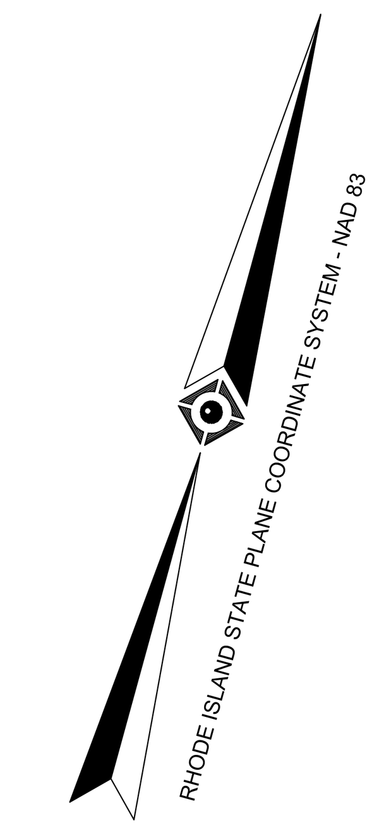

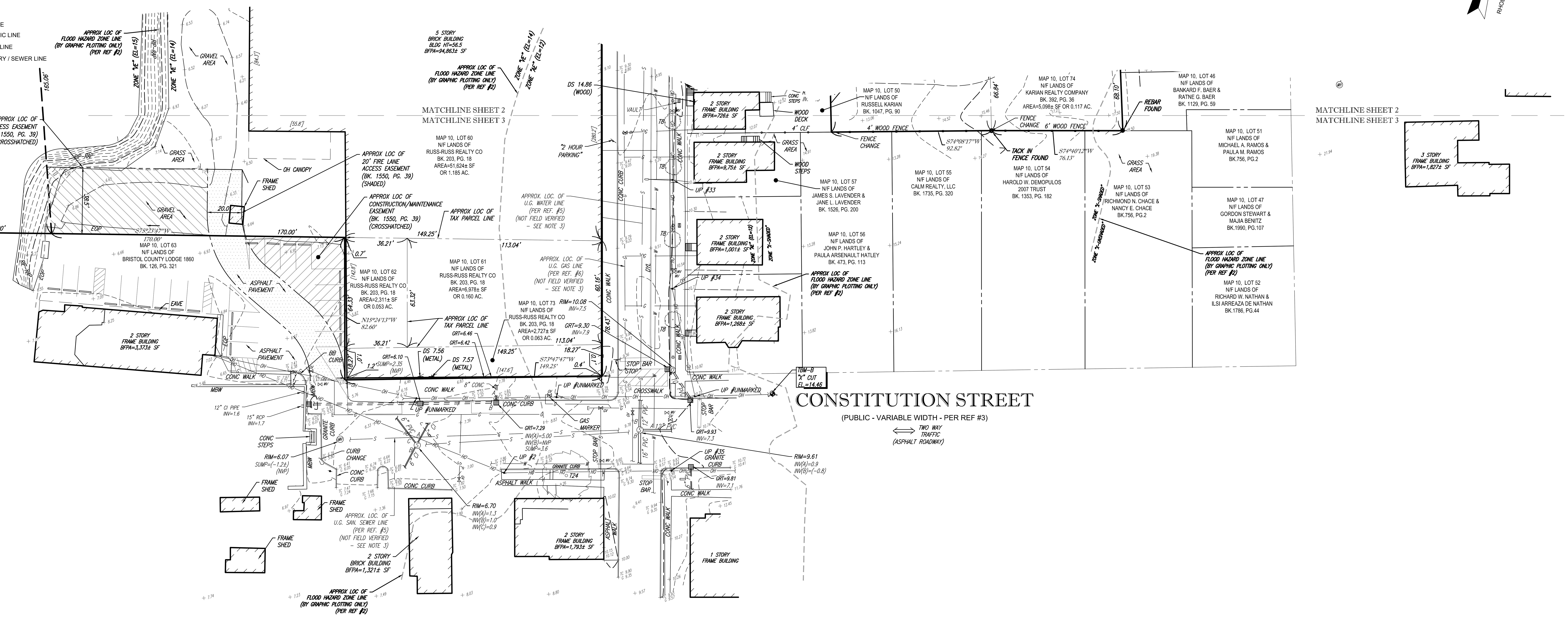

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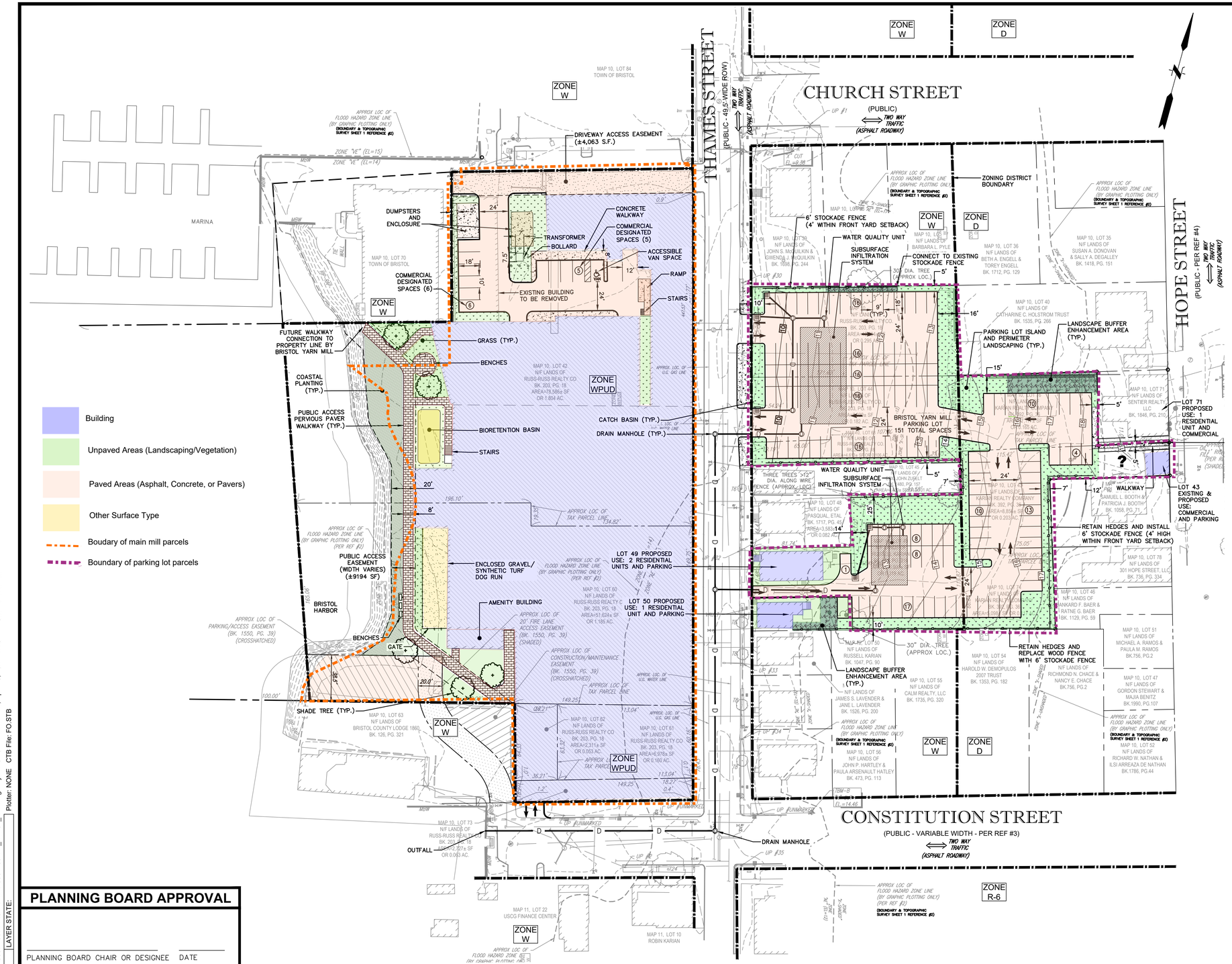


ZONING DIMENSION TABLE

CRITERIA	REQUIRED PER ZONING DISTRICT W	D	WPUD	PROPOSED (BUILDING SITE – LOTS 42,60,61,62,73)
MINIMUM LOT AREA	5,000 SF			142,226± SF (3.265 AC)
MINIMUM LOT AREA PER DWELLING UNIT	4,000 SF	2,500 SF	2,900 SF*	1,748 SF (227,286 SF/130 UNITS)
MINIMUM FRONTAGE	50'			149.25' CONSTITUTION STREET (MIN.)
MIMIMUM LOT WIDTH	50'			149.25' CONSTITUTION STREET (MIN.)
FRONT SETBACK	0'			–0.90'
SIDE SETBACK	0'			0.0'
REAR SETBACK	10'			30±' (TO APPROX. MEAN HIGH WATER)
MAX. BUILDING HEIGHT	35' (3 STORIES)			55' MAX.–4 STORIES (EXISTING)
MAX. LOT COVERAGE BY STRUCTURES	70%			83,153 S.F./142,226 S.F. = 58.5% (PROP.) 87,296 S.F./142,226 S.F. = 61.4% (EXIST.)
MAX. TOTAL COVERAGE	85%	95%	N/A	97,606 S.F./142,226 S.F. = 68.6%
MAX. FLOOR AREA RATIO	1.5	1.4	N/A	227,286 S.F./142,226 S.F. = 1.6±
IMPERVIOUS COVER	PARKING LOT SITE			51,237 S.F./66,327 S.F. = 77.2%

*TOWN COUNCIL ZONE CHANGE APPROVAL FROM JUNE 23, 2008 ALLOWED A DENSITY OF 98 UNITS BASED ON A GROSS FLOOR AREA TO UNIT RATIO OF 2,900 SQUARE FEET.

PARKING SUMMARY

	USE	REQUIRED	PROPOSED
RESIDENTIAL PARKING SPACES (ON–SITE)		127	137
RESIDENTIAL PARKING SPACES (OFF–SITE)		0	148
COMMERCIAL PARKING SPACES (ON–SITE)		11	11
317 HOPE STREET (LOT 71) – ZONE D	RES/COMM	0	0
325 HOPE STREET (LOT 43) – ZONE D	COMM	0	0
60 THAMES STREET (LOT 50) – ZONE W	SF RES	1	1
70 THAMES STREET (LOT 49) – ZONE W	MF RES	2	2
TOTAL PARKING SPACES:		141	299

RESIDENTIAL PARKING REQUIREMENT: 1 SPACE/D.U. (127 RESIDENTIAL W AND REHAB LDP ZONES)

COMMERCIAL PARKING REQUIREMENT: 1 SPACE/600 S.F. GFA (0 SPACES REQ'D FOR RESIDENTIAL, OFFICE, SERVICE, RETAIL, OR INSTITUTIONS WITHIN D ZONE) (6,292 S.F. / 600 S.F. = 11 SPACES

LOADING SPACE REQUIREMENT: 1 SPACE/3,000–19,999 S.F. OF GFA (6,292 S.F. = 1 SPACE

NOTES:
1. PARKING AND LOADING REQUIREMENTS SHALL COMPLY WITH ARTICLE VIII SEC. 28–251.
2. ON–STREET PARKING ON THAMES STREET IS NOT INCLUDED IN THE CALCULATIONS.
3. THERE ARE 42 TOTAL COMPACT VEHICLE PARKING SPACES, 9 DESIGNATED MOTORCYCLE SPACES AND 24 BICYCLE SPACES WITHIN THE BASEMENT LEVEL OF 125 THAMES STREET. COMPACT PARKING SPACES ACCOUNTS FOR 13.5% OF TOTAL PARKING COUNT. MOTORCYCLE AND BICYCLE PARKING IS NOT INCLUDED IN THE CALCULATIONS.

ZONING RELIEF:

1. ARTICLE VIII SEC. 28–251(1): OFF–STREET PARKING IS REQUIRED ON THE SAME PROPERTY AS THE DEVELOPMENT EXCEPT AS PERMITTED UNDER SEC. 28–255.
2. ARTICLE VIII SEC. 28–251(2)(a): OFF–STREET PARKING SPACE DIMENSIONS MUST BE 10' WIDE BY 18' LONG. PROPOSED RESIDENTIAL PARKING SPACES ARE 9' WIDE BY 18' LONG.
3. ARTICLE VIII SEC. 28–251(2)(a): DOUBLE LINE PARKING SPACE STRIPES ARE REQUIRED IN PARKING LOTS WITH MORE THAN 20 SPACES.
4. ARTICLE IX SEC. 28–284(d)(1): REQUIRED TO USE AT LEAST 25 PERCENT OF THE SITE FOR COMMERCIAL, INSTITUTIONAL, AND/OR PUBLIC USE.
5. ARTICLE IX SEC. 28–284(d)(2)RESIDENTIAL DENSITY FOR HISTORICAL BUILDINGS GREATER THAN 100,000 SQUARE FEET IN THE W ZONE. CONTRIBUTING BUILDINGS ON THE NATIONAL HISTORICAL REGISTER LOCATED IN THE W ZONE THAT ARE IN EXCESS OF 100,000 SQUARE FEET OF GROSS FLOOR AREA SHALL HAVE A MINIMUM GFA/DU (GROSS FLOOR AREA PER DWELLING UNIT) OF 2,250 SQUARE FEET PER DWELLING UNIT.
6. ARTICLE IX SEC. 28–284(g): AT LEAST 10 PERCENT OF THE LAND AREA MUST BE ALLOCATED FOR PUBLIC OR INSTITUTIONAL USE INCLUDING, BUT NOT LIMITED TO, PUBLICLY ACCESSIBLE PARKS, SQUARES, GREEN SPACES, WATERFRONT ACCESS, INTERIOR SPACES, PUBLIC VIEW CORRIDORS AND BUFFER AREAS. PROPOSED PUBLIC ACCESS EASEMENT IS 9.3 PERCENT OF LAND AREA (13,257 SF / 142,226 SF MILL LOTS ONLY: LOTS 42, 60, 61, 62, AND 73).

NOTES:

1. ARTICLES AND SECTIONS REFER TO THE BRISTOL, RI CODE OF ORDINANCES CHAPTER 28 "ZONING" (MUNICODE VERSION DECEMBER 14, 2020).
2. REFERENCE BRISTOL TOWN COUNCIL DECISION FOR "PETITION TO CHANGE OF ZONE ORDINANCE RELATIVE TO DENSITY AND COMMERCIAL USES FOR ROBIN RUG" DATED JUNE 23, 2008 (BK. 1457 PG. 177) THAT APPLIES TO SPECIFIC DEVELOPMENT CONDITIONS ON THE ROBIN RUG MILL COMPLEX.
3. THIS CONCEPT PLAN IS INTENDED TO BE USED FOR PLANNING PURPOSES ONLY AND IS NOT SUITABLE FOR PERMITTING OR CONSTRUCTION.

PLANNING BOARD APPROVAL

PLANNING BOARD CHAIR OR DESIGNEE DATE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1"= 40'
VERT.:
DATUM:
HORZ.:NAD 1983
VERT.: NAD 1988
40 20 0 40
GRAPHIC SCALE

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

BRADY SULLIVAN PROPERTIES, LLC
MASTER PLAN
BRISTOL YARN MILL
ALTERNATIVE PARKING PLAN

125 THAMES STREET BRISTOL, RHODE ISLAND

PROJ. No.: 20061150.A22
DATE: APRIL 13, 2021

C1.01

File Path: \\private\DFS\CadProj\DWG\P20061150\A22\Civil\Plan\20061150A22_STP01_ALT.dwg Layout: C1.01 Plotted: Wed, April 13, 2022 - 4:45 PM User: kmccombs
LAYER STATE: Plotter: NONE CTB File: FO.STB
MS VIEW:

APPENDIX E

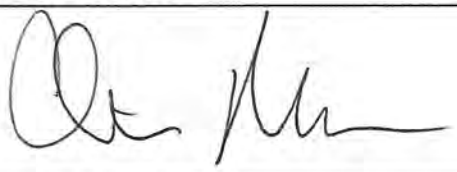
APPENDIX E – CERTIFICATION
Site Investigation Report

In accordance with RIDEM's Office of Land Revitalization and Sustainable Materials Management Regulations under 250-RICR-140-30-1, *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (aka the Remediation Regulations), the following statement of certification for the **Site Investigation Report for the Robin Rug Manufacturing Facility Site located at 125 Thames Street and auxiliary Parking Lot Parcels located east of Thames Street, Bristol, Rhode Island** is provided:

CERTIFICATION OF CONSULTANT:

*Nobis Group, certifies to the best of its knowledge that the **Site Investigation Report** is complete and accurate:*	
	
Name: Bettina Eames, P.G Senior Project Manager Nobis Group, Concord, NH	Date: August 1, 2022

CERTIFICATION OF PERFORMING PARTY:

*Brady Sullivan Properties certifies to the best of its knowledge that the **Site Investigation Report** is complete and accurate:*	
	
Name: Chris Reynolds, PE Senior Project Manager Brady Sullivan Properties	Date: August 1, 2022