# RELEASE ABATEMENT MEASURE STATUS REPORT

# SOIL EXCAVATION AND REMOVAL AT THE ACQUIRED RESIDENTIAL PROPERTIES

## NEW BEDFORD, MASSACHUSETTS

**Release Tracking Number 4-15685**

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**October 2014**

## ACRONYMS

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| MassDEP | Massachusetts Department of Environmental Protection |
| MCP | Massachusetts Contingency Plan |
| mg/kg | Milligrams per Kilogram |
| PAH | Polycyclic Aromatic Hydrocarbon |
| PCB | Polychlorinated Biphenyl |
| PID | Photoionization Detector |
| RAM | Release Abatement Measure |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TPH | Total Petroleum Hydrocarbons |
| RTN | Release Tracking Number |
| TCE | Trichloroethylene |
| TRC | TRC Environmental Corporation |
| VOCs | Volatile Organic Compounds |

## TABLE OF CONTENTS



### TABLES



### FIGURES



### APPENDICES

## 1.0 INTRODUCTION

TRC Environmental Corporation (TRC) prepared this Release Abatement Measure Status Report (RAM Status Report) for submittal to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City) per 310 CMR 40.0445 of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The RAM addresses soil removal and site restoration activities to be conducted at the properties located at 101, 102, and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street (hereinafter "Acquired Residential Properties") under a RAM Plan submitted to MassDEP on December 18, 2012 (TRC, 2012). However, note that this RAM Status Report specifically summarizes activities pertaining to 101 and 102 Greenwood Street ("the Site") during this reporting period, since response actions were not performed at the remaining parcels comprising the Acquired Residential Properties during the reporting timeframe.

The Acquired Residential Properties are a portion of the disposal site managed under the MCP and tracked by MassDEP under Release Tracking Number (RTN) 4-15685. A Site Location Map is provided as Figure 1. Additional information about proposed RAM activities at the Acquired Residential Properties is provided in the RAM Plan (TRC, 2012) and RAM Plan Modification (TRC, 2014b).

This RAM Status Report is organized as follows: Section 1.0 (Introduction) briefly summarizes background information pertaining to RAM-related activities. Section 2.0 (RAM Status Report) provides the information required for a RAM Status Report per the MCP (310 CMR 40.0445). Section 3.0 (References) lists information sources relied upon in the preparation of this RAM Status Report.

## 2.0 RELEASE ABATEMENT MEASURE STATUS REPORT (310 CMR 40.0445)

This RAM Status Report is organized according to the information needs set forth under 310 CMR 40.0445(2)(a) through (e) of the MCP.

### 2.1 The Status of Response Operations

Following submittal of the RAM Plan in December 2012, supplementary Site investigation activities (e.g., Dig Safe® notification, surveying/marking proposed boring locations, etc.) were initiated in March 2013 and pre-characterization sampling to delineate the extent of soil with polychlorinated biphenyl (PCB) concentrations equal to or above 50 milligrams per kilogram (mg/kg) at 101 and 102 Greenwood Street began in April 2013. The PCB pre-characterization investigation at 101 Greenwood Street was completed in June 2013 and PCB pre-characterization activities at 102 Greenwood Street were completed in October 2013. Figures 2 and 3 illustrate the results of the pre-characterization investigations at 101 and 102 Greenwood Street, respectively.

Prior RAM-related activities are described in the following reports submitted to MassDEP by the City:

- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* April 2013. (TRC, 2013a)
- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* October 2013. (TRC, 2013b)
- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* March 2014. (TRC, 2014a)

Response actions performed during the reporting period are summarized below.

#### *2.1.1 Waste Characterization Sampling at 101 and 102 Greenwood Street*

Forty previous soil boring locations at 101 and 102 Greenwood Street (originally sampled between 2005 and 2013) were revisited during September 12 and 15, 2014 to characterize the material proposed for excavation and off-site disposal during the proposed remedy. The boring locations were surveyed and marked in advance by a licensed surveyor, Land Planning, Incorporated of Hansen, Massachusetts (Land Planning). Drilling services were provided by GeoLogic-Earth Exploration, Incorporated of Norfolk, Massachusetts (GeoLogic), under TRC field supervision.

Previous boring locations within the proposed excavation areas at these properties where soil samples had been collected and determined through laboratory analysis to contain metals (cadmium, chromium and/or lead) or trichloroethylene (TCE) at concentrations equal to or greater than 20 times the regulatory limits listed in 310 CMR 30.125 Table 1 (i.e., "the 20X rule-of-thumb"), were revisited to facilitate collection of soil samples for analysis of those compounds by the toxicity characteristic leaching procedure (TCLP) method. Soil samples from the prior depth

interval(s) at each location with concentrations greater than or equal to the 20X rule were collected and analyzed per the TCLP method. However, at boring locations where more than one previous sample exceeded the 20X rule for a compound, the prior sample/depth interval that exhibited the highest concentration of the compound was selected for TCLP testing for that compound to conservatively assess worst-case conditions at each location with respect to leaching. The soil samples were submitted to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts (Con-Test) for analysis of leachable cadmium, chromium, lead and/or TCE by the TCLP method.

In addition, at six of the previous borings located outside of the proposed remedial excavation targeting soil with PCB concentrations equal to or above 50 mg/kg at 102 Greenwood Street, additional soil samples were collected and submitted to Con-Test for analysis of volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), ignitability, pH, and reactive cyanide and sulfide. These samples were analyzed to supplement the existing data set for soil located from the surface to three feet below grade, to support disposal facility acceptance of the material generated from that part of the Site during the proposed remedy. The extensive amount of existing historical PCB, polycyclic aromatic hydrocarbon (PAH) and metals data from outside the proposed remedial excavation at 102 Greenwood Street targeting soil with PCB concentrations equal to or above 50 mg/kg was deemed sufficient to satisfy facility acceptance requirements for those parameters; therefore, no PCB, PAH or total metals analyses were necessary during waste characterization activities.

### *2.1.2 Geotechnical Investigation at 102 Greenwood Street*

Geotechnical investigation activities were conducted at 102 Greenwood Street in June and September 2014 to evaluate subsurface conditions in the vicinity of the proposed remedial excavation targeting soil with PCB concentrations above 50 mg/kg. The work was performed to evaluate geotechnical characteristics in the deepest portion of the proposed remedial excavation to support consideration of potential excavation shoring/stabilization techniques and to enable the installation of groundwater monitoring wells to facilitate the collection of hydrogeologic data to support excavation dewatering calculations.

Geotechnical drilling activities were conducted at 102 Greenwood Street on June 16 and September 12 and 15, 2014. Drilling services were provided by GeoLogic, under TRC field supervision. The work was performed in accordance with the American Society for Testing and Materials (ASTM) Standard Method for Penetration Test and Split Barrel Sampling of Soils, ASTM Specification D-1586.

Two soil borings, identified as GT-1 (June 2014) and GT-2 (September 2014), were installed in the proposed remedial excavation, as shown on Figure 3. The borings were advanced via standard auger and drive and wash drilling techniques using a CME-75 drill rig. Blow counts and lithological observations were generally recorded continuously from the surface to the maximum depth of investigation (36-38 feet below grade). Soil samples from the borings were visually examined in the field for evidence of potential impacts and field screened with a photoionization detector using the MassDEP jar headspace methodology. Select soil samples from the borings were submitted to TRC's geotechnical laboratory in Mount Laurel, New Jersey for grain size distribution analysis; samples from boring GT-2 were also subjected to falling head permeability analysis.

In addition, a "nested" pair of groundwater monitoring wells was installed in the 6-inch diameter borehole of boring GT-2 on September 15, 2014 to facilitate dewatering operations planning. The shallow well of the pair, identified as MW-GT-2S, was screened from 4 to 19 feet below grade, and the deeper well, identified as MW-GT-2D, was screened from 20 to 25 feet below grade. The monitoring wells were constructed of 2-inch PVC and were completed at the surface as flush-mounted installations. The wells were developed on September 15, 2014.

The location of the geotechnical borings and the nested monitoring wells are identified on Figure 3. Boring and well construction logs are provided in Appendix A.

Monitoring wells MW-GT-2S, MW-GT-2D and MW-36 (installed in 2010) were subjected to hydrogeologic testing on September 21, 2014. Slug testing and a pump drawdown test were performed by TRC personnel.

## 2.2 Significant New Site Information or Data

Results of the sampling activities performed during the reporting period are discussed below.

### *2.2.1 Waste Characterization Sampling Results - 101 and 102 Greenwood Street*

A total of 49 soil samples collected from 40 boring locations at the Site were analyzed for cadmium, chromium, lead and/or TCE by the TCLP method. Analytical results indicated concentrations of leachable cadmium and/or lead above the regulatory limits listed in 310 CMR 30.125 Table 1 in five of the soil samples. The samples with exceedances of TCLP criteria for cadmium and/or lead were associated with four boring locations, with three of the locations at 101 Greenwood Street (SB-101-4A/5C, SB-101-4D, and SB-101-5A) and the fourth at 102 Greenwood Street (SB-102-7). Chromium and TCE were not detected above regulatory criteria in the TCLP samples.

Tables 1 through 3 summarize the waste characterization results for the soil samples. Table 1 includes the results of samples collected within the proposed remedial PCB excavation at 101 Greenwood Street, Table 2 includes the results of samples collected within the proposed remedial excavation targeting soil with PCB concentrations above 50 mg/kg at 102 Greenwood Street, and Table 3 includes the results of samples collected from outside the proposed remedial excavation targeting soil with PCB concentrations above 50 mg/kg at 102 Greenwood Street. TCLP sampling results for 101 and 102 Greenwood Street are illustrated on Figures 2 and 3, respectively. Copies of the laboratory reports are included in Appendix B.

### *2.2.2 Geotechnical Investigation Results - 102 Greenwood Street*

Geotechnical investigation boring and well locations are shown on Figure 3.

Copies of the geotechnical laboratory reports for the soil samples collected from borings GT-1 and GT-2 at 102 Greenwood Street are included in Appendix C. A discussion of the results is also included.

Slug test and pump drawdown test results for monitoring wells MW-GT-2S and MW-GT-2D are provided in Appendix C. Dewatering calculations for the proposed remedy based on the test

results are also included.

## 2.3 Details of and/or Plans for the Management of Remediation Waste, Remedial Wastewater, and/or Remedial Additives

No remediation waste, remedial wastewater or remedial additives were generated at the Site during the reporting period. Please refer to the RAM Plan (TRC, 2012) and RAM Plan Modification (TRC, 2014b) for details regarding the proposed management of remedial wastes.

Remedial planning associated with the proposed remedy for the Acquired Residential Properties is currently underway. Remediation work is scheduled to begin in late October 2014.

The Clean Harbors Lone Mountain, LLC landfill facility in Waynoka, Oklahoma is being evaluated as a potential disposal facility for soil with PCB concentrations above 50 mg/kg removed from the Site.

Environmental Soil Management, Incorporated of Loudon, New Hampshire is being evaluated as a potential treatment/disposal facility for soil located from the surface to three feet below grade outside of the proposed remedial excavation targeting soil with PCB concentrations above 50 mg/kg at 102 Greenwood Street.

Details regarding the management of remedial wastes generated during the remedy will be included in a future regulatory submittal.

## 2.4 Other Necessary Information

No additional information is required in association with this RAM Status Report.

## 2.5 LSP Opinion

The objective of this RAM Status Report is to apprise MassDEP of the City's activities at the Acquired Residential Properties.

This RAM Status Report has been prepared in accordance with 310 CMR 40.0445 per the MCP.

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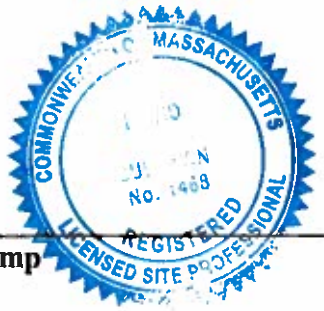
10/16/2014
Date

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## 3.0 REFERENCES


TRC, 2012 — *Release Abatement Measure Plan, Soil Excavation and Removal at the Acquired Residential Properties, Parker Street Waste Site, New Bedford, Massachusetts.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. December 2012.

TRC, 2013a — *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. April 2013.

TRC, 2013b — *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. October 2013.

TRC, 2014a — *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. March 2014.

TRC, 2014b — *Release Abatement Measure Plan Modification, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. August 2014 (submitted September 3, 2014).

# TABLES

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | 101 Greenwood St | | | 101 Greenwood St | | | | 101 Greenwood St | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | D.5-2 | | | E.5-2 | | | F2 | | | | G2 | | | |
| | | Sample Depth (ft.): | | | | | | 2-3 | 3-6 | 6-9 | 1-3 | 3-6 | 6-9 | 0.25-3 | 3-6 | 3-6[1] | 6-8 | 0.5-3 | 0-1 | 3-6 | 6-9 |
| | | Sample Date: | | | | | | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 1/27/2006 | 12/19/2005 | 12/19/2005 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | 0.54 U | 0.9 U | 1.3 U | NA | NA | NA | 0.3 U | 0.32 U | NA | 0.38 U | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | 0.5 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | 100 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | **0.11** | NA | 0.077 U | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | 6 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | 7.5 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | 0.5 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | 0.7 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | 0.5 | 56 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | 200 | 360 | 0.16 U | 0.27 U | 0.4 U | NA | NA | NA | 0.18 U | 0.19 U | NA | 0.23 U | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | 0.27 U | 0.45 U | 0.67 U | NA | NA | NA | 0.3 U | 0.32 U | NA | 0.38 U | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | 0.7 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | 0.054 U | **0.35** | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | 0.5 | 60 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | **0.24** | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 101 Greenwood St | | | 101 Greenwood St | | | 101 Greenwood St | | | | 101 Greenwood St | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | D.5-2 | | | E.5-2 | | | F2 | | | | G2 | | | |
| | | | | | | | | Sample Depth (ft.): | 2-3 | 3-6 | 6-9 | 1-3 | 3-6 | 6-9 | 0.25-3 | 3-6 | 3-6[1] | 6-8 | 0.5-3 | 0-1 | 3-6 | 6-9 |
| | | | | | | | | Sample Date: | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 1/27/2006 | 12/19/2005 | 12/19/2005 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | 0.2 | 60 | | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | 0.054 U | 0.09 U | 0.13 U | NA | NA | NA | 0.06 U | 0.065 U | NA | 0.077 U | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | 0.11 U | 0.18 U | 0.27 U | NA | NA | NA | 0.12 U | 0.13 U | NA | 0.15 U | NA | NA | NA | NA |
| | Ethanol | NS | NS | NS | N/A | N/A | N/A | | NA | 36 U | 54 U | NA | NA | NA | 24 U | NA | NA | 31 U | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.12 UJ | 0.13 UJ | 0.15 UJ | 0.118 UJ | 0.141 UJ | 0.141 UJ | 0.122 UJ | 0.131 UJ | ND | 0.129 UJ | 0.126 UJ | 0.1 UJ | 0.129 UJ | 0.137 UJ |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.24 UJ | 0.27 UJ | 0.3 UJ | 0.235 UJ | 0.282 UJ | 0.282 UJ | 0.243 UJ | 0.262 UJ | ND | 0.257 UJ | 0.253 UJ | 0.1 UJ | 0.258 UJ | 0.274 UJ |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.12 UJ | 0.13 UJ | 0.15 UJ | 0.118 UJ | 0.141 UJ | 0.141 UJ | 0.122 UJ | 0.131 UJ | ND | 0.129 UJ | 0.126 UJ | 0.2 UJ | 0.129 UJ | 0.137 UJ |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.12 UJ | 0.13 UJ | 0.15 UJ | 0.118 UJ | 0.141 UJ | 0.141 UJ | 0.122 UJ | 0.131 UJ | ND | 0.129 UJ | 0.126 UJ | 0.1 UJ | 0.129 UJ | 0.137 UJ |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | | **2.8 J** | 0.13 UJ | **1.47 J** | **29.6 J** | **0.391 J** | **1.132 J** | **3.66 J** | **0.784 J** | **5.6 J** | **3.01 J** | **10.4 J** | **0.226 J** | **23.3 J** | 1.37 UJ |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.12 UJ | **0.69 J** | 0.15 UJ | 0.118 UJ | 0.141 UJ | 0.141 UJ | **2.09 J** | **0.621 J** | **1.9 J** | **2.11 J** | 0.126 UJ | 0.1 UJ | 0.129 UJ | 0.137 UJ |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.12 UJ | 0.13 UJ | 0.15 UJ | 0.118 UJ | 0.141 UJ | 0.141 UJ | 0.122 UJ | 0.131 UJ | ND | 0.129 UJ | 0.126 UJ | 0.1 UJ | 0.129 UJ | 0.137 UJ |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.12 UJ | 0.13 UJ | 0.15 UJ | 0.118 UJ | 0.141 UJ | 0.141 UJ | 0.122 UJ | 0.131 UJ | ND | 0.129 UJ | 0.126 UJ | 0.1 UJ | 0.129 UJ | 0.137 UJ |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | | **2.8 J** | **0.69 J** | **1.47 J** | **29.6 J** | **0.391 J** | **1.132 J** | **5.75 J** | **1.405 J** | **7.5 J** | **5.12 J** | **10.4 J** | **0.226 J** | **23.3 J** | 1.37 UJ |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | **101 Greenwood St** | | | **101 Greenwood St** | | | **101 Greenwood St** | | | | **101 Greenwood St** | | | |
| | Sample ID: | | | | | | | D.5-2 | | | E.5-2 | | | F2 | | | | G2 | | | |
| | Sample Depth (ft.): | | | | | | | 2-3 | 3-6 | 6-9 | 1-3 | 3-6 | 6-9 | 0.25-3 | 3-6 | 3-6[1] | 6-8 | 0.5-3 | 0-1 | 3-6 | 6-9 |
| | Sample Date: | | | | | | | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/20/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 | 1/27/2006 | 12/19/2005 | 12/19/2005 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **54** | **39** | **174** | NA | NA | NA | **157** | **63** | NA | **106** | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **9.9** | **14.9** | **19.2** | NA | NA | NA | **11.5** | **11.8** | NA | **14.1** | NA | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Cadmium | N/A | N/A | N/A | N/A | 1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | | 101 Greenwood St | | | | | 101 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | H2 | | | | SB-101-4A/5C | | | | | SB-101-4B | | | | |
| | | Sample Depth (ft.): | | | | | | 0.5-3 | 3-6 | 6-8.5 | 6-8.5 | 0-1 | 0-1 | 1-3 | 1-3 | 10.5-12 | 0-1 | 0-1 | 1-3 | 4-7 | 9-11 |
| | | Sample Date: | | | | | | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 Field Dup | 12/14/2010 | 12/14/2010 Field Dup | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | 0.5 | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | | 101 Greenwood St | | | | | 101 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | H2 | | | | SB-101-4A/5C | | | | | SB-101-4B | | | | |
| | | Sample Depth (ft.): | | | | | | 0.5-3 | 3-6 | 6-8.5 | 6-8.5 | 0-1 | 0-1 | 1-3 | 1-3 | 10.5-12 | 0-1 | 0-1 | 1-3 | 4-7 | 9-11 |
| | | Sample Date: | | | | | | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 Field Dup | 12/14/2010 | 12/14/2010 Field Dup | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethanol | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | 0.20 U | 0.20 U | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | NA | NA | NA | NA | 0.20 U | 0.20 U | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | **0.26** | **0.33** | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | **0.84** | **0.87** | NA | NA | NA | **0.36** | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | NA | NA | NA | NA | **0.83** | **0.85** | NA | NA | NA | **0.39** | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | NA | NA | NA | NA | **1.2** | **1.2** | NA | NA | NA | **0.53** | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | NA | NA | NA | NA | **0.41** | **0.36** | NA | NA | NA | **0.19** | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | NA | NA | NA | NA | **0.42** | **0.42** | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | NA | NA | NA | NA | **0.97** | **0.94** | NA | NA | NA | **0.42** | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | NA | NA | NA | NA | 0.20 U | 0.20 U | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | **1.3** | **1.8** | NA | NA | NA | **0.52** | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | 0.20 U | 0.20 U | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | **0.50** | **0.47** | NA | NA | NA | **0.24** | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | 0.20 U | 0.20 U | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | 0.20 U | 0.20 U | NA | NA | NA | 0.18 U | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | **1.3** | **1.6** | NA | NA | NA | **0.34** | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | NA | NA | NA | NA | **1.3** | **1.3** | NA | NA | NA | **0.61** | NA | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.118 UJ | 0.133 UJ | 0.259 UJ | 0.191 UJ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | 0.122 U | 0.120 U | 0.312 U | NA | 0.0539 U | 0.183 U | NA | 0.120 U | 0.448 U | 0.0602 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.235 UJ | 0.265 UJ | 0.518 UJ | 0.382 UJ | 0.122 U | 0.120 U | 0.312 U | NA | 0.0539 U | 0.183 U | NA | 0.120 U | 0.448 U | 0.0602 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.118 UJ | 0.133 UJ | 0.259 UJ | 0.191 UJ | 0.122 U | 0.120 U | 0.312 U | NA | 0.0539 U | 0.183 U | NA | 0.120 U | 0.448 U | 0.0602 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | 0.122 U | 0.120 U | 0.312 U | NA | 0.0539 U | 0.183 U | NA | 0.120 U | 0.448 U | 0.0602 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.118 UJ | 0.133 UJ | 0.259 UJ | 0.191 UJ | 0.122 U | 0.120 U | 0.312 U | NA | 0.0539 U | 0.183 U | NA | 0.120 U | 0.448 U | 0.0602 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **0.968 J** | **799 J** | **1.87 J** | **2.46 J** | **1.87 J** | **2.27 J** | **9.12 J** | NA | 0.0539 U | **3.02 J** | NA | **2.24 J** | **6.54 J** | **0.0408 J** |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | **0.81 J** | **177 J** | 0.259 UJ | **1.24 J** | **0.280 J** | **0.349 J** | **1.35 J** | NA | 0.0539 U | **0.466 J** | NA | **1.05 J** | **0.407 J** | 0.0602 U |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **1.778 J** | **976 J** | **1.87 J** | **3.7 J** | **2.15 J** | **2.619 J** | **10.47 J** | NA | 0.0539 U | **3.486 J** | NA | **3.29 J** | **6.947 J** | **0.0408 J** |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | **101 Greenwood St** | | | | **101 Greenwood St** | | | | | **101 Greenwood St** | | | | |
| | Sample ID: | | | | | | | H2 | | | | SB-101-4A/5C | | | | | SB-101-4B | | | | |
| | Sample Depth (ft.): | | | | | | | 0.5-3 | 3-6 | 6-8.5 | 6-8.5 | 0-1 | 0-1 | 1-3 | 1-3 | 10.5-12 | 0-1 | 0-1 | 1-3 | 4-7 | 9-11 |
| | Sample Date: | | | | | | | 12/19/2005 | 12/19/2005 | 12/19/2005 | 12/19/2005 Field Dup | 12/14/2010 | 12/14/2010 Field Dup | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | 2.8 U | 3.0 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | NA | NA | NA | NA | **19** | **7.3** | **23** | NA | 2.7 U | **6.0** | NA | **4.0** | **13** | 2.9 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | NA | NA | NA | **310** | **340** | **990** | NA | **7.7** | **240** | NA | **96** | **360** | **15** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | 0.28 U | **1.1** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | NA | NA | NA | NA | **2.2** | **27** | **45** | NA | 0.27 U | **1.6** | NA | **0.78** | **7.1** | 0.29 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | **33** | **25** | **39** | NA | **3.5** | **27** | NA | **13** | **16** | **8.0** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | NA | NA | NA | NA | **2,200** | **1,400** | **2,600** | NA | **3.4** | **1,100** | NA | **300** | **780** | **29** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | **0.95** | **0.41** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | **26** | **16** | **35** | NA | **1.9** | **17** | NA | **8.9** | **18** | **5.3** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | 5.5 U | 6.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | 0.55 U | **0.65** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | 2.8 U | 3.0 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | **24** | **22** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | **580** | **410** | **1,500** | NA | **25** | **350** | NA | **180** | **1,100** | **17** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Cadmium | N/A | N/A | N/A | N/A | 1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | **0.025** | NA | NA | NA | NA | NA | NA |
| | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | NA | NA | **23** | NA | NA | **0.44** | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | | | | 101 Greenwood St | | | | | | 101 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-101-4C | | | | | | SB-101-4D | | | | | | SB-101-5A | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 0-1 | 1-3 | 4-9 | 4-9 | 10-12 | 0-1 | 1-3 | 5-8 | 5-8 | 10-12 | | 0-1 | 1-3 | 1-3 | 5-9 | 5-9 | 10-12 |
| | | Sample Date: | | | | | | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 9/15/2014 | 12/14/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | 0.5 | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | | | | 101 Greenwood St | | | | | 101 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-101-4C | | | | | | SB-101-4D | | | | | SB-101-5A | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 0-1 | 1-3 | 4-9 | 4-9 | 10-12 | 0-1 | 1-3 | 5-8 | 5-8 | 10-12 | 0-1 | 1-3 | 1-3 | 5-9 | 5-9 | 10-12 |
| | | Sample Date: | | | | | | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 9/15/2014 | 12/14/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethanol | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | 0.21 U | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | 0.21 U | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | **0.39** | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | **0.24** | NA | NA | NA | NA | NA | NA | **0.42** | NA | NA | NA | **0.85** | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | **0.24** | NA | NA | NA | NA | NA | NA | **0.41** | NA | NA | NA | **0.67** | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.28** | NA | NA | NA | NA | NA | NA | **0.50** | NA | NA | NA | **0.81** | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | **0.23** | NA | NA | NA | NA | NA | NA | **0.42** | NA | NA | NA | **0.49** | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | **0.31** | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.26** | NA | NA | NA | NA | NA | NA | **0.49** | NA | NA | NA | **0.83** | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | 0.21 U | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.41** | NA | NA | NA | NA | NA | NA | **0.62** | NA | NA | NA | **1.5** | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | 0.21 U | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | **0.26** | NA | NA | NA | NA | NA | NA | **0.45** | NA | NA | NA | **0.59** | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | 0.21 U | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.21 U | NA | NA | NA | NA | NA | NA | 0.22 U | NA | NA | NA | 0.21 U | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.24** | NA | NA | NA | NA | NA | NA | **0.47** | NA | NA | NA | **1.5** | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **0.48** | NA | NA | NA | NA | NA | NA | **0.94** | NA | NA | NA | **2.0** | NA | NA | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.294 U | NA | 0.122 U | 0.663 U | NA | 0.257 UJ | 0.0531 U | 0.246 U | 3.00 U | NA | 0.238 UJ | 0.296 U | 1.28 U | NA | 0.431 U | NA | 0.0580 UJ |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.294 U | NA | 0.122 U | 0.663 U | NA | 0.257 UJ | 0.0531 U | 0.246 U | 3.00 U | NA | 0.238 UJ | 0.296 U | 1.28 U | NA | 0.431 U | NA | 0.0580 UJ |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.294 U | NA | 0.122 U | 0.663 U | NA | 0.257 UJ | 0.0531 U | 0.246 U | 3.00 U | NA | 0.238 UJ | 0.296 U | 1.28 U | NA | 0.431 U | NA | 0.0580 UJ |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.294 U | NA | 0.122 U | 0.663 U | NA | 0.257 UJ | 0.0531 U | 0.246 U | 3.00 U | NA | 0.238 UJ | 0.296 U | 1.28 U | NA | 0.431 U | NA | 0.0580 UJ |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.294 U | NA | 0.122 U | 0.663 U | NA | 0.257 UJ | 0.0531 U | 0.246 U | 3.00 U | NA | 0.238 UJ | 0.296 U | 1.28 U | NA | 0.431 U | NA | 0.0580 UJ |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **3.32 J** | NA | **2.37 J** | **24.7 J** | NA | 0.257 UJ | **1.13 J** | **5.27** | **46.0 J** | NA | 0.238 UJ | **4.63 J** | **27.2 J** | NA | **3.08 J** | NA | 0.0580 UJ |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | **1.96 J** | NA | **2.30 J** | **2.20 J** | NA | 0.257 UJ | **0.275 J** | **2.85 J** | **3.24 J** | NA | 0.238 UJ | **0.831 J** | **2.81 J** | NA | **0.363 J** | NA | 0.0580 UJ |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **5.28 J** | NA | **4.67 J** | **26.9 J** | NA | 0.257 UJ | **1.405 J** | **8.12 J** | **49.24 J** | NA | 0.238 UJ | **5.461 J** | **30.01 J** | NA | **3.443 J** | NA | 0.0580 UJ |

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**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | | | | 101 Greenwood St | | | | | | 101 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-101-4C | | | | | | SB-101-4D | | | | | | SB-101-5A | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 0-1 | 1-3 | 4-9 | 4-9 | 10-12 | 0-1 | 1-3 | 5-8 | 5-8 | 10-12 | | 0-1 | 1-3 | 1-3 | 5-9 | 5-9 | 10-12 |
| | | Sample Date: | | | | | | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 9/15/2014 | 12/14/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | 3.1 U | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | **6.4** | NA | **5.3** | **5.5** | NA | 2.7 U | **5.6** | **7.7** | **9.8** | NA | 13 U | | 3.1 U | **6.5** | NA | **11** | NA | 2.6 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **240** | NA | **160** | **220** | NA | **7.6** | **320** | **280** | **230** | NA | **57** | | **120** | **470** | NA | **430** | NA | **21** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | 0.31 U | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **4.0** | NA | **1.2** | **55** | NA | 0.27 U | **1.6** | **6.3** | **68** | NA | 1.3 U | | **0.68** | **2.5** | NA | **90** | NA | 0.26 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **34** | NA | **14** | **12** | NA | **2.5** | **19** | **29** | **32** | NA | **6.8** | | **16** | **110** | NA | **75** | NA | **10** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **820** | NA | **490** | **400** | NA | **2.9** | **610** | **1,200** | **1,400** | NA | **6.9** | | **330** | **2,000** | NA | **2,700** | NA | **6.7** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | **0.42** | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **15** | NA | **12** | **14** | NA | **1.7** | **12** | **24** | **48** | NA | **3.3** | | **8.4** | **32** | NA | **36** | NA | **4.3** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | 6.3 U | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | 0.63 U | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | 3.1 U | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | **55** | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **360** | NA | **240** | **1,000** | NA | **13** | **330** | **1,100** | **2,300** | NA | **26** | | **120** | **830** | NA | **1,800** | NA | **12** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Cadmium | N/A | N/A | N/A | N/A | 1 | 1.1 | NA | NA | NA | NA | **0.53** | NA | NA | NA | NA | **7.3** | NA | | NA | NA | NA | NA | **1.0** | NA |
| | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | **0.047** | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | **2.4** | NA | NA | NA | NA | NA | NA | NA | **87** | NA | | NA | NA | NA | NA | **5.5** | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | **101 Greenwood St** | | | | | | **101 Greenwood St** | | | | **101 Greenwood St** | | |
| | Sample ID: | | | | | | | SB-101-5B | | | | | | SB-101-5D | | | | SB-101-6A | | |
| | Sample Depth (ft.): | | | | | | | 0-1 | 0-1 | 1-3 | 5-6 | 5-6 | 9-11 | 2-3.5 | 4-6 | 4-6 | 8-10 | 0-1 | 1-3 | 1-3 |
| | Sample Date: | | | | | | | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 12/13/2010 | 9/15/2014 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | 0.5 | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | **101 Greenwood St** | | | | | | **101 Greenwood St** | | | | **101 Greenwood St** | | |
| | Sample ID: | | | | | | | SB-101-5B | | | | | | SB-101-5D | | | | SB-101-6A | | |
| | Sample Depth (ft.): | | | | | | | 0-1 | 0-1 | 1-3 | 5-6 | 5-6 | 9-11 | 2-3.5 | 4-6 | 4-6 | 8-10 | 0-1 | 1-3 | 1-3 |
| | Sample Date: | | | | | | | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 12/13/2010 | 9/15/2014 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethanol | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | **0.56** | NA | **0.34** | NA | NA | NA | NA | NA | NA | NA | **0.24** | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | **0.51** | NA | **0.39** | NA | NA | NA | NA | NA | NA | NA | **0.23** | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.64** | NA | **0.46** | NA | NA | NA | NA | NA | NA | NA | **0.25** | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | **0.30** | NA | **0.31** | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | **0.26** | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.58** | NA | **0.38** | NA | NA | NA | NA | NA | NA | NA | **0.25** | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.73** | NA | **0.52** | NA | NA | NA | NA | NA | NA | NA | **0.47** | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | **0.40** | NA | **0.37** | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.20 U | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.72** | NA | **0.23** | NA | NA | NA | NA | NA | NA | NA | **0.34** | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **1.1** | NA | **0.82** | NA | NA | NA | NA | NA | NA | NA | **0.61** | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.613 U | NA | 6.22 U | 0.0707 U | NA | 0.194 UJ | 0.0527 U | 0.661 U | NA | 0.0525 U | 0.0579 U | 1.81 U | NA |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.613 U | NA | 6.22 U | 0.0707 U | NA | 0.194 UJ | 0.0527 U | 0.661 U | NA | 0.0525 U | 0.0579 U | 1.81 U | NA |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.613 U | NA | 6.22 U | 0.0707 U | NA | 0.194 UJ | 0.0527 U | 0.661 U | NA | 0.0525 U | 0.0579 U | 1.81 U | NA |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.613 U | NA | 6.22 U | 0.0707 U | NA | 0.194 UJ | 0.0527 U | 0.661 U | NA | 0.0525 U | 0.0579 U | 1.81 U | NA |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.613 U | NA | 6.22 U | 0.0707 U | NA | 0.194 UJ | 0.0527 U | 0.661 U | NA | 0.0525 U | 0.0579 U | 1.81 U | NA |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **14.2 J** | NA | **6.92 J** | **0.488 J** | NA | 0.194 UJ | **0.275 J** | **10.7 J** | NA | 0.0525 U | **1.38 J** | **42.4 J** | NA |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | **1.67 J** | NA | 6.22 U | **0.191** | NA | 0.194 UJ | 0.0527 U | 0.661 U | NA | 0.0525 U | **0.510** | 1.81 U | NA |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **15.87 J** | NA | **6.92 J** | **0.679 J** | NA | 0.194 UJ | **0.275 J** | **10.7 J** | NA | 0.0525 U | **1.89 J** | **42.4 J** | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | 101 Greenwood St | | | | | | 101 Greenwood St | | | | 101 Greenwood St | | |
| | Sample ID: | | | | | | | SB-101-5B | | | | | | SB-101-5D | | | | SB-101-6A | | |
| | Sample Depth (ft.): | | | | | | | 0-1 | 0-1 | 1-3 | 5-6 | 5-6 | 9-11 | 2-3.5 | 4-6 | 4-6 | 8-10 | 0-1 | 1-3 | 1-3 |
| | Sample Date: | | | | | | | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/14/2010 | 9/15/2014 | 12/14/2010 | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 12/13/2010 | 9/15/2014 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | **13** | NA | **3.9** | **24** | NA | 9.1 U | 2.7 U | **17** | NA | 2.6 U | 2.8 U | **5.1** | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **330** | NA | **110** | **130** | NA | **29** | **34** | **310** | NA | **7.1** | **60** | **510** | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **3.4** | NA | **2.1** | **100** | NA | 0.91 U | **0.28** | **19** | NA | 0.26 U | **0.45** | **2.6** | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **39** | NA | **120** | **140** | NA | **20** | **8.3** | **13** | NA | **3.8** | **13** | **44** | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **1,900** | NA | **610** | **1,300** | NA | **12** | **110** | **590** | NA | **12** | **170** | **570** | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **28** | NA | **10** | **160** | NA | **6.7** | **8.1** | **14** | NA | **1.8** | **6.3** | **20** | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **560** | NA | **250** | **5,300** | NA | **48** | **49** | **490** | NA | **21** | **69** | **400** | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Cadmium | N/A | N/A | N/A | N/A | 1 | 1.1 | NA | NA | NA | NA | **0.55** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | **1.5** | NA | NA | NA | NA | NA | NA | **1.6** | NA | NA | NA | **1.7** |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 101 Greenwood St | | | 101 Greenwood St | | | | 101 Greenwood St | | | 101 Greenwood St | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-101-6B | | | SB-101-6C | | | | SB-101-6D | | | SB-101-7D | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 |
| | | Sample Date: | | | | | | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 12/13/2010 Field Dup | 9/15/2014 | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 9/15/2014 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | 0.5 | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | **101 Greenwood St** | | | **101 Greenwood St** | | | | **101 Greenwood St** | | | **101 Greenwood St** | | |
| | Sample ID: | | | | | | | SB-101-6B | | | SB-101-6C | | | | SB-101-6D | | | SB-101-7D | | |
| | Sample Depth (ft.): | | | | | | | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 |
| | Sample Date: | | | | | | | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 12/13/2010 Field Dup | 9/15/2014 | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 9/15/2014 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethanol | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | 0.20 U | 0.22 U | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.20 U | NA | NA | 0.20 U | 0.22 U | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | 0.20 U | **0.28** | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | **0.26** | NA | NA | **0.32** | **0.68** | **0.28** | NA | 0.19 U | NA | NA | 0.19 U | **0.36** | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | **0.25** | NA | NA | **0.31** | **0.59** | **0.28** | NA | 0.19 U | NA | NA | 0.19 U | **0.34** | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.30** | NA | NA | **0.38** | **0.76** | **0.35** | NA | 0.19 U | NA | NA | 0.19 U | **0.39** | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | 0.20 U | NA | NA | **0.29** | **0.26** | **0.24** | NA | 0.19 U | NA | NA | 0.19 U | **0.27** | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | 0.20 U | NA | NA | 0.20 U | **0.33** | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.29** | NA | NA | **0.34** | **0.73** | **0.29** | NA | 0.19 U | NA | NA | 0.19 U | **0.36** | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.20 U | NA | NA | 0.20 U | 0.22 U | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.44** | NA | NA | **0.56** | **1.6** | **0.43** | NA | 0.19 U | NA | NA | 0.19 U | **0.68** | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | 0.20 U | 0.22 U | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | **0.22** | NA | NA | **0.34** | **0.29** | **0.26** | NA | 0.19 U | NA | NA | 0.19 U | **0.33** | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.20 U | NA | NA | 0.20 U | 0.22 U | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.20 U | NA | NA | 0.20 U | 0.22 U | 0.21 U | NA | 0.19 U | NA | NA | 0.19 U | 0.19 U | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.32** | NA | NA | **0.43** | **1.4** | **0.33** | NA | 0.19 U | NA | NA | 0.19 U | **0.63** | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **0.59** | NA | NA | **0.73** | **1.2** | **0.66** | NA | 0.19 U | NA | NA | **0.20** | **0.83** | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.569 U | 1.19 U | NA | 0.243 U | 0.593 U | 1.20 U | NA | 0.0541 U | 0.418 U | NA | 0.0596 U | 0.328 U | NA |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.569 U | 1.19 U | NA | 0.243 U | 0.593 U | 1.20 U | NA | 0.0541 U | 0.418 U | NA | 0.0596 U | 0.328 U | NA |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.569 U | 1.19 U | NA | 0.243 U | 0.593 U | 1.20 U | NA | 0.0541 U | 0.418 U | NA | 0.0596 U | 0.328 U | NA |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.569 U | 1.19 U | NA | 0.243 U | 0.593 U | 1.20 U | NA | 0.0541 U | 0.418 U | NA | 0.0596 U | 0.328 U | NA |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.569 U | 1.19 U | NA | 0.243 U | 0.593 U | 1.20 U | NA | 0.0541 U | 0.418 U | NA | 0.0596 U | 0.328 U | NA |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **19.7 J** | **53.2 J** | NA | **6.21 J** | **26.1 J** | **25.0 J** | NA | **0.675 J** | **7.57 J** | NA | **0.664 J** | **9.50 J** | NA |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 0.569 U | 1.19 U | NA | **0.808** | 0.593 U | 1.20 U | NA | 0.0541 U | **1.65** | NA | **0.141 J** | **1.40 J** | NA |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **19.7 J** | **53.2 J** | NA | **7.018 J** | **26.1 J** | **25.0 J** | NA | **0.675 J** | **9.22 J** | NA | **0.805 J** | **10.9 J** | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | | | | | | **101 Greenwood St** | | | **101 Greenwood St** | | | | **101 Greenwood St** | | | **101 Greenwood St** | | |
| | Sample ID: | | | | | | | SB-101-6B | | | SB-101-6C | | | | SB-101-6D | | | SB-101-7D | | |
| | Sample Depth (ft.): | | | | | | | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 |
| | Sample Date: | | | | | | | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 12/13/2010 Field Dup | 9/15/2014 | 12/13/2010 | 12/13/2010 | 9/15/2014 | 12/13/2010 | 12/13/2010 | 9/15/2014 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2.8 U | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | 2.9 U | **4.2** | NA | 2.9 U | **4.3** | **3.1** | NA | 2.8 U | **11** | NA | 2.9 U | 2.8 U | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **170** | **450** | NA | **110** | **180** | **180** | NA | **44** | **250** | NA | **42** | **170** | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.28 U | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **1.4** | **3.7** | NA | **1.0** | **1.4** | **1.5** | NA | 0.28 U | **1.8** | NA | **0.30** | **0.89** | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **23** | **32** | NA | **15** | **18** | **23** | NA | **10** | **57** | NA | **19** | **24** | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **270** | **580** | NA | **270** | **520** | **420** | NA | **20** | **750** | NA | **110** | **270** | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **0.24** | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **11** | **37** | NA | **8.6** | **14** | **14** | NA | **6.7** | **60** | NA | **4.6** | **11** | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 5.6 U | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.56 U | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2.8 U | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **23** | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **210** | **650** | NA | **170** | **250** | **260** | NA | **30** | **250** | NA | **47** | **130** | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Cadmium | N/A | N/A | N/A | N/A | 1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | **0.53** | NA | NA | NA | **0.34** | NA | NA | **0.40** | NA | NA | **0.40** |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location: | | | | | | **101 Greenwood St** | | | | | | |
| | | Sample ID: | | | | | | TP 101 I | | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 3-5 | 5-7 | 5 | 6 | 7-9 | 9 |
| | | Sample Date: | | | | | | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/8/2010 | 12/8/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | 0.5 | 56 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location: | | | | | | **101 Greenwood St** | | | | | | | |
| | | Sample ID: | | | | | | TP 101 I | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 3-5 | 5-7 | 5 | 6 | 7-9 | 9 |
| | | Sample Date: | | | | | | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/8/2010 | 12/8/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethanol | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | NA | NA | NA | NA | NA | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **11** | **14** | **25** | **100** | **110** | **180** | **44** | 0.33 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | 1.2 U | 2.4 U | 2.7 U | 13 U | 12 U | 15 U | 5.3 U | 0.33 U |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **11** | **14** | **25** | **100** | **110** | **180** | **44** | 0.33 U |

**Table 1**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2005 - 2014**
**101 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample Location: | | | | | | **101 Greenwood St** | | | | | | |
| | | Sample ID: | | | | | | TP 101 I | | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 3-5 | 5-7 | 5 | 6 | 7-9 | 9 |
| | | Sample Date: | | | | | | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/7/2010 | 12/8/2010 | 12/8/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | |
| (mg/L) | Cadmium | N/A | N/A | N/A | N/A | 1 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | 102 Greenwood St | | | | 102 Greenwood St | | 102 Greenwood St | | | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | L1.3 | | SB-185 | | | | SB-186 | | SB-195 | | | | SB-102-5A | | | | | |
| | | Sample Depth (ft.): | | | | | | 1-4 | 9-10 | 2 | 4 | 6 | 6 | 2 | 3.4 | 1 | 7.5 | 7.5 | 9 | 11 | 0-1 | 1-3 | 5-7 | 5-7 | 8-10 |
| | | Sample Date: | | | | | | 6/20/2006 | 6/20/2006 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 | 6/10/2008 | 6/10/2008 | 9/12/2014 | 6/10/2008 | 6/10/2008 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freo | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | 102 Greenwood St | | | | 102 Greenwood St | | 102 Greenwood St | | | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | L1.3 | | SB-185 | | | | SB-186 | | SB-195 | | | | SB-102-5A | | | | | |
| | | Sample Depth (ft.): | | | | | | 1-4 | 9-10 | 2 | 4 | 6 | 6 | 2 | 3.4 | 1 | 7.5 | 7.5 | 9 | 11 | 0-1 | 1-3 | 5-7 | 5-7 | 8-10 |
| | | Sample Date: | | | | | | 6/20/2006 | 6/20/2006 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 | 6/10/2008 | 6/10/2008 | 9/12/2014 | 6/10/2008 | 6/10/2008 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VOCs, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Benzene | N/A | N/A | N/A | N/A | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone (MEK) | N/A | N/A | N/A | N/A | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon Tetrachloride | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | N/A | N/A | N/A | N/A | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | N/A | N/A | N/A | N/A | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | N/A | N/A | N/A | N/A | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethylene | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl Chloride | N/A | N/A | N/A | N/A | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | **0.258** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | NA | NA | NA | NA | 0.193 U | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | **0.692** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | **1.69** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | NA | NA | NA | NA | **1.75** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | NA | NA | NA | NA | **2.30** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | **0.43** | 0.39 U | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | NA | NA | NA | NA | **0.963** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | NA | NA | NA | NA | **0.763** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | NA | NA | NA | NA | **1.87** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | NA | NA | NA | NA | **0.362** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | **3.68** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | **0.46** | 0.39 U | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | **0.341** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | **1.12** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | 0.193 U | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | **0.245** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | **3.47** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | 0.43 U | 0.39 U | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | NA | NA | NA | NA | **2.55** | NA | NA | NA | NA | 0.233 U | NA | 0.185 U | NA | **0.86** | 0.39 U | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | 102 Greenwood St | | 102 Greenwood St | | | | 102 Greenwood St | | 102 Greenwood St | | | | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | | L1.3 | | SB-185 | | | | SB-186 | | SB-195 | | | | | SB-102-5A | | | | | |
| | | Sample Depth (ft.): | | | | | | | 1-4 | 9-10 | 2 | 4 | 6 | 6 | 2 | 3.4 | 1 | 7.5 | 7.5 | 9 | 11 | 0-1 | 1-3 | 5-7 | 5-7 | 5-7 | 8-10 |
| | | Sample Date: | | | | | | | 6/20/2006 | 6/20/2006 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 | 6/10/2008 | 6/10/2008 | 9/12/2014 | 6/10/2008 | 6/10/2008 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | 0.111 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | 1.64 U | 1.08 U | 0.231 U | NA | 0.055 U | 0.0538 U | 0.0558 U | 0.138 U | NA | 0.0546 U | 0.0515 U | 0.0601 U | 0.191 U | 0.200 U | NA | NA | 0.0523 U |
| | Aroclor 1221 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | 0.111 U | 1.64 U | 1.08 U | 0.231 U | NA | 0.055 U | 0.0538 U | 0.0558 U | 0.138 U | NA | 0.0546 U | 0.0515 U | 0.0601 U | 0.191 U | 0.200 U | NA | NA | 0.0523 U |
| | Aroclor 1232 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | 0.111 U | 1.64 U | 1.08 U | 0.231 U | NA | 0.055 U | 0.0538 U | 0.0558 U | 0.138 U | NA | 0.0546 U | 0.0515 U | 0.0601 U | 0.191 U | 0.200 U | NA | NA | 0.0523 U |
| | Aroclor 1242 | | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | 1.64 U | 1.08 U | 0.231 U | NA | 0.055 U | 0.0538 U | 0.0558 U | 0.138 U | NA | 0.0546 U | 0.0515 U | 0.0601 U | 0.191 U | 0.200 U | NA | NA | 0.0523 U |
| | Aroclor 1248 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | 0.111 U | 1.64 U | 1.08 U | 0.231 U | NA | 0.055 U | 0.0538 U | 0.0558 U | 0.138 U | NA | 0.0546 U | 0.0515 U | 0.0601 U | 0.191 U | 0.200 U | NA | NA | 0.0523 U |
| | Aroclor 1254 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | **0.552 J** | **68.3 J** | **45.7 J** | **10.7 J** | NA | **0.798 J** | **0.376 J** | **2.45 J** | **4.34 J** | NA | **0.141 J** | 0.0515 U | **0.334 J** | **4.55 J** | **5.72 J** | NA | NA | **0.0762 J** |
| | Aroclor 1260 | | 1 | 4 | 4 | N/A | N/A | N/A | **0.141 J** | 0.111 U | 1.64 U | 1.08 U | 0.231 U | NA | **0.402 J** | **0.635 J** | 0.0558 U | 0.138 U | NA | 0.0546 U | 0.0515 U | **0.177 J** | **0.445** | 0.200 U | NA | NA | 0.0523 U |
| | Aroclor 1262 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | 0.111 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | | 1 | 4 | 4 | N/A | N/A | N/A | 0.108 U | 0.111 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | | 1 | 4 | 4 | N/A | N/A | N/A | **0.141 J** | **0.552 J** | **68.3 J** | **45.7 J** | **10.7 J** | NA | **1.20 J** | **1.011 J** | **2.45 J** | **4.34 J** | NA | **0.141 J** | 0.0515 U | **0.511 J** | **4.995 J** | **5.72 J** | NA | NA | **0.0762 J** |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | 4.63 U | NA | NA | NA | NA | 5.58 U | NA | 4.43 U | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | | 20 | 20 | 20 | 100 | N/A | N/A | NA | NA | NA | NA | **6.07** | NA | NA | NA | NA | **7.70** | NA | 2.77 U | NA | **7.3** | **4.7** | **31** | NA | NA | 2.5 U |
| | Barium | | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | NA | NA | NA | **113** | NA | NA | NA | NA | **183** | NA | **15.2** | NA | **220** | **290** | **280** | NA | NA | **17** |
| | Beryllium | | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | 0.29 U | NA | NA | NA | NA | **0.67** | NA | 0.28 U | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | | 70 | 100 | 100 | 20 | N/A | N/A | NA | NA | NA | NA | **6.49** | NA | NA | NA | NA | **1.41** | NA | 0.28 U | NA | **1.1** | **4.4** | **0.50** | NA | NA | 0.25 U |
| | Chromium | | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | **8.82** | NA | NA | NA | NA | **9.73** | NA | **7.40** | NA | **23** | **30** | **9.4** | NA | NA | **9.0** |
| | Lead | | 200 | 600 | 600 | 100 | N/A | N/A | NA | NA | NA | NA | **673** | NA | NA | NA | NA | **982** | NA | **4.43** | NA | **550** | **310** | **1,900** | NA | NA | **4.7** |
| | Mercury | | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | **0.131** | NA | NA | NA | NA | **0.201** | NA | 0.017 U | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | **24.9** | NA | NA | NA | NA | **11.7** | NA | **2.84** | NA | **20** | **22** | **17** | NA | NA | **4.0** |
| | Selenium | | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | 5.79 U | NA | NA | NA | NA | 6.98 U | NA | 5.54 U | NA | NA | NA | NA | NA | NA | NA |
| | Silver | | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | **2.33** | NA | NA | NA | NA | 0.70 U | NA | 0.56 U | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | 3.48 U | NA | NA | NA | NA | 4.19 U | NA | 3.33 U | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | **9.46** | NA | NA | NA | NA | **18.4** | NA | **13.4** | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | **1,490** | NA | NA | NA | NA | **367** | NA | **10.1** | NA | **330** | **510** | **220** | NA | NA | **16** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Chromium | | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | **2.8** | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | **0.12** | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-5D | | | | | SB-102-6 | | | SB-102-8A | | | | | SB-102-8B | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 5-7 | 5-7 | 7-9 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 |
| | | Sample Date: | | | | | | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/16/2010 | 12/16/2010 | 9/15/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freo | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-5D | | | | | SB-102-6 | | | SB-102-8A | | | | | SB-102-8B | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 5-7 | 5-7 | 7-9 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 |
| | | Sample Date: | | | | | | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/16/2010 | 12/16/2010 | 9/15/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VOCs, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Benzene | N/A | N/A | N/A | N/A | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone (MEK) | N/A | N/A | N/A | N/A | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon Tetrachloride | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | N/A | N/A | N/A | N/A | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | N/A | N/A | N/A | N/A | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | N/A | N/A | N/A | N/A | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethylene | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl Chloride | N/A | N/A | N/A | N/A | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.23** | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.25** | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.21 U | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.28** | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **0.39** | NA | NA | NA | NA | 0.19 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-5D | | | | | SB-102-6 | | | SB-102-8A | | | | | SB-102-8B | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 5-7 | 5-7 | 7-9 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 |
| | | Sample Date: | | | | | | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/16/2010 | 12/16/2010 | 9/15/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0622 U | 0.0560 U | 0.0594 U | NA | 0.0638 U | 0.0572 U | 6.18 U | NA | 0.0569 U | 0.119 U | NA | 13.6 U | 0.0606 U | 0.216 U | 2.47 U | NA | 1.13 U | 0.0561 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0622 U | 0.0560 U | 0.0594 U | NA | 0.0638 U | 0.0572 U | 6.18 U | NA | 0.0569 U | 0.119 U | NA | 13.6 U | 0.0606 U | 0.216 U | 2.47 U | NA | 1.13 U | 0.0561 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0622 U | 0.0560 U | 0.0594 U | NA | 0.0638 U | 0.0572 U | 6.18 U | NA | 0.0569 U | 0.119 U | NA | 13.6 U | 0.0606 U | 0.216 U | 2.47 U | NA | 1.13 U | 0.0561 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0622 U | 0.0560 U | 0.0594 U | NA | 0.0638 U | 0.0572 U | 6.18 U | NA | 0.0569 U | 0.119 U | NA | 13.6 U | 0.0606 U | 0.216 U | 2.47 U | NA | 1.13 U | 0.0561 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0622 U | 0.0560 U | 0.0594 U | NA | 0.0638 U | 0.0572 U | 6.18 U | NA | 0.0569 U | 0.119 U | NA | 13.6 U | 0.0606 U | 0.216 U | 2.47 U | NA | 1.13 U | 0.0561 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **0.626 J** | **1.21 J** | **0.605 J** | NA | 0.0638 U | **1.36 J** | **243 J** | NA | **0.264 J** | **1.97 J** | NA | **529 J** | **0.0869 J** | **6.22 J** | **83.3 J** | NA | **37.4 J** | 0.0561 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | **0.206** | **0.166 J** | **0.114 J** | NA | 0.0638 U | **0.223 J** | 6.18 U | NA | **0.0982 J** | **1.17 J** | NA | 13.6 U | 0.0606 U | 0.216 U | 2.47 U | NA | 1.13 U | 0.0561 U |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **0.832 J** | **1.376 J** | **0.719 J** | NA | 0.0638 U | **1.583 J** | **243 J** | NA | **0.3622 J** | **3.14 J** | NA | **529 J** | **0.0869 J** | **6.22 J** | **83.3 J** | NA | **37.4 J** | 0.0561 U |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | **7.7** | **4.3** | **15** | NA | 2.8 U | 2.9 U | 2.9 U | NA | **4.3** | **3.8** | NA | **19** | 3.0 U | **6.4** | **9.1** | NA | **10** | 5.9 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **230** | **210** | **1,200** | NA | **21** | **77** | **200** | NA | **89** | **1,100** | NA | **1,400** | **26** | **190** | **290** | NA | **240** | **56** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **1.3** | **2.9** | **21** | NA | 0.28 U | 0.29 U | **11** | NA | **0.79** | **3.7** | NA | **2.1** | 0.30 U | **3.3** | **10** | NA | **1.9** | 0.59 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **24** | **19** | **58** | NA | **6.4** | **9.2** | **22** | NA | **22** | **100** | NA | **44** | **3.6** | **26** | **16** | NA | **13** | **8.6** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **620** | **1,500** | **3,600** | NA | **10** | **270** | **2,300** | NA | **510** | **2,900** | NA | **1,100** | **13** | **770** | **1,100** | NA | **410** | **15** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **24** | **20** | **77** | NA | **2.5** | **7.0** | **31** | NA | **17** | **33** | NA | **28** | **0.91** | **20** | **17** | NA | **12** | **3.3** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **160** | **280** | **5,200** | NA | **80** | **57** | **18,000** | NA | **160** | **950** | NA | **930** | **33** | **750** | **1,800** | NA | **310** | **90** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | **0.0081** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | **0.42** | NA | NA | NA | **2.1** | NA | NA | **0.45** | NA | NA | NA | NA | **1.5** | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | 102 Greenwood St | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-8C | | | | | SB-102-8D/MW-36 | | | | | TP 102 B | | 102EX1SB1B-1B | | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 1-3 | 5-7 | 8-10 | 0-1 | 1-3 | 5-7 | 5-7 | 8-10 | 5-7 | 7-8 | 5-7 | 5-7 | 5-7 | 7-9 | 9-11 | 11-13 | 13-15 |
| | | Sample Date: | | | | | | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/9/2010 | 12/9/2010 | 6/19/2013 | 6/19/2013 Field Dup | 9/12/2014 | 6/19/2013 | 6/19/2013 | 8/21/2013 | 8/21/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.067 U | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.027 U | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00067 U | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0040 U | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freo | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **0.013** | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **0.0057** | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00067 U | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00067 U | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.13 U | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.013 U | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.013 U | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00067 U | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | 102 Greenwood St | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-8C | | | | | SB-102-8D/MW-36 | | | | | TP 102 B | | 102EX1SB1B-1B | | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 1-3 | 5-7 | 8-10 | 0-1 | 1-3 | 5-7 | 5-7 | 8-10 | 5-7 | 7-8 | 5-7 | 5-7 | 5-7 | 7-9 | 9-11 | 11-13 | 13-15 |
| | | Sample Date: | | | | | | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/9/2010 | 12/9/2010 | 6/19/2013 | 6/19/2013 Field Dup | 9/12/2014 | 6/19/2013 | 6/19/2013 | 8/21/2013 | 8/21/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(** | 10xUTS | | | | | | | | | | | | | | | | | | | |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **11** | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0067 U | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0027 U | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0013 U | NA | NA | NA | NA | NA | NA |
| **VOCs, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Benzene | N/A | N/A | N/A | N/A | 0.5 | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA |
| | 2-Butanone (MEK) | N/A | N/A | N/A | N/A | 200 | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA |
| | Carbon Tetrachloride | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.050 U | NA | NA | NA | NA |
| | Chlorobenzene | N/A | N/A | N/A | N/A | 100 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA |
| | Chloroform | N/A | N/A | N/A | N/A | 6 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.020 U | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | N/A | N/A | N/A | N/A | 7.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA |
| | 1,2-Dichloroethane | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA |
| | 1,1-Dichloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA |
| | Tetrachloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA |
| | Trichloroethylene | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **0.026** | NA | NA | NA | NA |
| | Vinyl Chloride | N/A | N/A | N/A | N/A | 0.2 | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.020 U | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 71 U | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **430** | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **190** | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | **0.32** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.20 U | 0.19 U | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | **0.60** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | **0.79** | **1.6** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **1.9** | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | **0.78** | **1.6** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **1.6** | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **1.0** | **2.0** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **2.4** | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | **0.32** | **0.64** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **1.1** | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | **0.39** | **0.62** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **0.86** | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.81** | **1.7** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **2.1** | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.20 U | **0.24** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **1.3** | **2.7** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **4.2** | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | **0.30** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | **0.44** | **0.91** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **1.3** | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.20 U | 0.19 U | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.20 U | **0.31** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | 0.71 U | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.79** | **3.5** | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | **2.9** | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **0.93** | **3.3** | NA | NA | NA | **0.21** | NA | NA | NA | NA | NA | NA | **4.0** | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | 102 Greenwood St | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-8C | | | | | SB-102-8D/MW-36 | | | | | TP 102 B | | 102EX1SB1B-1B | | | | | | |
| | | Sample Depth (ft.): | | | | | | 0-1 | 1-3 | 1-3 | 5-7 | 8-10 | 0-1 | 1-3 | 5-7 | 5-7 | 8-10 | 5-7 | 7-8 | 5-7 | 5-7 | 5-7 | 7-9 | 9-11 | 11-13 | 13-15 |
| | | Sample Date: | | | | | | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/9/2010 | 12/9/2010 | 6/19/2013 | 6/19/2013 Field Dup | 9/12/2014 | 6/19/2013 | 6/19/2013 | 8/21/2013 | 8/21/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(**) | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0641 U | 1.12 U | NA | 2.48 U | 0.0889 U | 0.0590 U | 0.121 U | 250 U | NA | 0.520 U | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0641 U | 1.12 U | NA | 2.48 U | 0.0889 U | 0.0590 U | 0.121 U | 250 U | NA | 0.520 U | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0641 U | 1.12 U | NA | 2.48 U | 0.0889 U | 0.0590 U | 0.121 U | 250 U | NA | 0.520 U | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0641 U | 1.12 U | NA | 2.48 U | 0.0889 U | 0.0590 U | 0.121 U | 250 U | NA | 0.520 U | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0641 U | 1.12 U | NA | 2.48 U | 0.0889 U | 0.0590 U | 0.121 U | 250 U | NA | 0.520 U | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **0.578 J** | **32.8 J** | NA | **80.3 J** | **0.320 J** | **0.0931 J** | **3.02 J** | **8,280 J** | NA | 0.520 U | **1.5 J** | **23 J** | **19 J** | **130 J** | NA | **0.59** | NA | NA | NA |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0641 U | 1.12 U | NA | 2.48 U | 0.0889 U | 0.0590 U | **0.542 J** | 250 U | NA | 0.520 U | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.13 U | 2.8 U | 3.0 U | 29 U | NA | 0.45 U | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **0.578 J** | **32.8 J** | NA | **80.3 J** | **0.320 J** | **0.0931 J** | **3.562 J** | **8,280 J** | NA | 0.520 U | **1.5 J** | **23 J** | **19 J** | **130 J** | NA | **0.59** | NA | NA | NA |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | **9.2** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | **4.4** | **8.7** | NA | **6.3** | 2.9 U | 2.9 U | **9.2** | **7.4** | NA | 2.5 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **140** | **340** | NA | **250** | **22** | **23** | **300** | **270** | NA | **17** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | 0.29 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **1.0** | **2.1** | NA | **11** | 0.29 U | 0.29 U | **6.3** | **12** | NA | 0.25 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **13** | **27** | NA | **15** | **9.7** | **7.8** | **25** | **21** | NA | **9.4** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **290** | **1,100** | NA | **380** | **5.8** | **32** | **960** | **1,600** | NA | **190** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | **0.42** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **8.8** | **25** | NA | **15** | **4.8** | **4.2** | **30** | **24** | NA | **5.2** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | 5.7 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | 0.57 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | 2.9 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | **21** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **290** | **640** | NA | **510** | **19** | **33** | **790** | **1,600** | NA | **22** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | **3.3** | NA | NA | NA | NA | NA | **0.19** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | | 102 Greenwood St | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | 102EX1SB2A-1C1 | | | | | | | 102EX1SB2A-2 | | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 5-7 | 7-9 | 7-9 | 9-11 | 11-13 | 13-15 | 15-17 | 3-5 | 4-6 | 4-6 | 4-6 | 5-7 | 7-9 | 9-11 | 11-13 | 13-15 | 17-18 | 18-20 |
| | | Sample Date: | | | | | | 6/19/2013 | 6/19/2013 | 9/12/2014 | 6/19/2013 | 6/19/2013 | 8/21/2013 | 8/21/2013 | 5/16/2013 | 8/21/2013 | 8/21/2013 Field Dup | 9/12/2014 | 5/16/2013 | 5/16/2013 | 6/28/2013 | 7/19/2013 | 7/19/2013 | 8/21/2013 | 8/21/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | 0.10 U | NA | 0.060 U | NA | NA | NA | NA | NA | 0.080 U | 0.082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | 0.040 U | NA | 0.024 U | NA | NA | NA | NA | NA | 0.032 U | 0.033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | 0.0010 U | NA | 0.00060 U | NA | NA | NA | NA | NA | 0.00080 U | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | 0.0060 U | NA | 0.0036 U | NA | NA | NA | NA | NA | 0.0048 U | 0.0049 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freo | 1,000 | NS | NS | N/A | N/A | 72 | **0.019** | NA | **0.0068** | NA | NA | NA | NA | NA | **0.016** | **0.014** | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | **0.027** | NA | **0.024** | NA | NA | NA | NA | NA | **0.023** | **0.019** | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | **0.0028** | NA | **0.0023** | NA | NA | NA | NA | NA | **0.0022** | **0.0021** | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | 0.0010 U | NA | 0.00060 U | NA | NA | NA | NA | NA | 0.00080 U | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | 0.0010 U | NA | 0.00060 U | NA | NA | NA | NA | NA | 0.00080 U | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | 0.20 U | NA | 0.12 U | NA | NA | NA | NA | NA | 0.16 U | 0.16 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | 0.020 U | NA | 0.012 U | NA | NA | NA | NA | NA | 0.016 U | 0.016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | 0.020 U | NA | 0.012 U | NA | NA | NA | NA | NA | 0.016 U | 0.016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | 0.0010 U | NA | 0.00060 U | NA | NA | NA | NA | NA | 0.00080 U | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | 0.0020 U | NA | **0.0012** | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | | 102 Greenwood St | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | 102EX1SB2A-1C1 | | | | | | | 102EX1SB2A-2 | | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 5-7 | 7-9 | 7-9 | 9-11 | 11-13 | 13-15 | 15-17 | 3-5 | 4-6 | 4-6 | 4-6 | 5-7 | 7-9 | 9-11 | 11-13 | 13-15 | 17-18 | 18-20 |
| | | Sample Date: | | | | | | 6/19/2013 | 6/19/2013 | 9/12/2014 | 6/19/2013 | 6/19/2013 | 8/21/2013 | 8/21/2013 | 5/16/2013 | 8/21/2013 | 8/21/2013 Field Dup | 9/12/2014 | 5/16/2013 | 5/16/2013 | 6/28/2013 | 7/19/2013 | 7/19/2013 | 8/21/2013 | 8/21/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | **0.0046** | NA | **0.0075** | NA | NA | NA | NA | NA | **0.0034** | **0.0025** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | **19** | NA | **24** | NA | NA | NA | NA | NA | **44** | **34** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | 0.010 U | NA | 0.0060 U | NA | NA | NA | NA | NA | 0.0080 U | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | 0.0040 U | NA | 0.0024 U | NA | NA | NA | NA | NA | 0.0032 U | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | 0.0020 U | NA | 0.0012 U | NA | NA | NA | NA | NA | 0.0016 U | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA |
| **VOCs, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Benzene | N/A | N/A | N/A | N/A | 0.5 | 100 | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone (MEK) | N/A | N/A | N/A | N/A | 200 | 360 | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA |
| | Carbon Tetrachloride | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | 0.050 U | NA | NA | NA | NA | NA | NA | NA | 0.050 U | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | N/A | N/A | N/A | N/A | 100 | 60 | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | N/A | N/A | N/A | N/A | 6 | 60 | NA | NA | 0.020 U | NA | NA | NA | NA | NA | NA | NA | 0.020 U | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | N/A | N/A | N/A | N/A | 7.5 | 60 | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethylene | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | NA | **0.028** | NA | NA | NA | NA | NA | NA | NA | **0.074** | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl Chloride | N/A | N/A | N/A | N/A | 0.2 | 60 | NA | NA | 0.020 U | NA | NA | NA | NA | NA | NA | NA | 0.020 U | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | | 102 Greenwood St | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | 102EX1SB2A-1C1 | | | | | | | 102EX1SB2A-2 | | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 5-7 | 7-9 | 7-9 | 9-11 | 11-13 | 13-15 | 15-17 | 3-5 | 4-6 | 4-6 | 4-6 | 5-7 | 7-9 | 9-11 | 11-13 | 13-15 | 17-18 | 18-20 |
| | | Sample Date: | | | | | | 6/19/2013 | 6/19/2013 | 9/12/2014 | 6/19/2013 | 6/19/2013 | 8/21/2013 | 8/21/2013 | 5/16/2013 | 8/21/2013 | 8/21/2013 Field Dup | 9/12/2014 | 5/16/2013 | 5/16/2013 | 6/28/2013 | 7/19/2013 | 7/19/2013 | 8/21/2013 | 8/21/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 U | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 U | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 U | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 U | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 UJ | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **8,300** | NA | **490** | **12** | **23 J** | **28 J** | **0.81** | **550** | NA | NA | NA | **360** | **0.39** | 0.10 U | **16** | **49** | **800** | **8.2** |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 UJ | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 UJ | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | 1,300 U | NA | 49 U | 2.2 U | 4.2 UJ | 4.2 U | 0.42 U | 47 U | NA | NA | NA | 56 U | 0.14 U | 0.10 U | 4.5 U | 8.2 U | 210 U | 1.9 U |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **8,300** | NA | **490** | **12** | **23 J** | **28 J** | **0.81** | **550** | NA | NA | NA | **360** | **0.39** | 0.10 U | **16** | **49** | **800** | **8.2** |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | 102EX1SB2A-2A | | | | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 3-5 | 3-5 | 5-7 | 7-9 | 9-11 | 11-13 | 11-13 | 13-15 | 15-17 | 17-19 | 19-21 |
| | | Sample Date: | | | | | | 6/19/2013 | 9/12/2014 | 6/19/2013 | 6/19/2013 | 9/19/2013 | 6/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | 0.082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | 0.033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | 0.0049 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freo | 1,000 | NS | NS | N/A | N/A | 72 | **0.018** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | **0.015** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | **0.0019** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | 0.16 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | 0.016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | 0.016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | 0.00082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | 102EX1SB2A-2A | | | | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 3-5 | 3-5 | 5-7 | 7-9 | 9-11 | 11-13 | 11-13 | 13-15 | 15-17 | 17-19 | 19-21 |
| | | Sample Date: | | | | | | 6/19/2013 | 9/12/2014 | 6/19/2013 | 6/19/2013 | 9/19/2013 | 6/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | **0.0021** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | **28** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | 0.0082 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | 0.0033 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | 0.0016 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VOCs, TCLP** | | | | | | | | | | | | | | | | | | |
| | Benzene | N/A | N/A | N/A | N/A | 0.5 | 100 | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone (MEK) | N/A | N/A | N/A | N/A | 200 | 360 | NA | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon Tetrachloride | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | 0.050 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | N/A | N/A | N/A | N/A | 100 | 60 | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | N/A | N/A | N/A | N/A | 6 | 60 | NA | 0.020 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | N/A | N/A | N/A | N/A | 7.5 | 60 | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethylene | N/A | N/A | N/A | N/A | 0.7 | 60 | NA | **0.025** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethylene | N/A | N/A | N/A | N/A | 0.5 | 60 | NA | **0.014** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl Chloride | N/A | N/A | N/A | N/A | 0.2 | 60 | NA | 0.020 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 2**
**Summary of Analytical Results for Select Soil Borings Located Within Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | 102EX1SB2A-2A | | | | | | | | | | |
| | | Sample Depth (ft.): | | | | | | 3-5 | 3-5 | 5-7 | 7-9 | 9-11 | 11-13 | 11-13 | 13-15 | 15-17 | 17-19 | 19-21 |
| | | Sample Date: | | | | | | 6/19/2013 | 9/12/2014 | 6/19/2013 | 6/19/2013 | 9/19/2013 | 6/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 | 9/19/2013 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **32** | NA | **15** | **0.15** | **0.25 J** | **0.17** | **0.58** | **560** | **820** | **380** | **0.38** |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1262 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | 4.8 U | NA | 2.8 U | 0.13 U | 0.11 U | 0.10 U | 0.42 U | 85 U | 86 U | 48 U | 0.11 U |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **32** | NA | **15** | **0.15** | **0.25 J** | **0.17** | **0.58** | **560** | **820** | **380** | **0.38** |
| **Metals** | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | |
| (mg/L) | Chromium | NS | NS | NS | N/A | 5 | 6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | K1.3 | | K5.5 | | M1.3 | | SB-187 | | SB-188 | | | SB-189 | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0.5-3 | 7.5-8 | 0.5-3 | 5-7 | 3-4 | 7.5-8 | 4 | 6 | 1 | 4.5 | 9 | 1 | 3.5 | 7 | 11 |
| | | | | | | | | Sample Date: | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/9/2008 | 6/9/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freor | 1,000 | NS | NS | N/A | N/A | 72 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | K1.3 | | K5.5 | | M1.3 | | SB-187 | | SB-188 | | | SB-189 | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0.5-3 | 7.5-8 | 0.5-3 | 5-7 | 3-4 | 7.5-8 | 4 | 6 | 1 | 4.5 | 9 | 1 | 3.5 | 7 | 11 |
| | | | | | | | | Sample Date: | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/9/2008 | 6/9/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | 0.195 U | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | 0.195 U | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | **0.341** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | **0.645** | NA | **1.05** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **0.602** | NA | **0.890** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | | NA | NA | NA | NA | NA | NA | NA | **0.886** | NA | **1.26** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | | NA | NA | NA | NA | NA | NA | NA | **0.419** | NA | **0.456** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | | NA | NA | NA | NA | NA | NA | NA | **0.330** | NA | **0.574** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | **0.738** | NA | **1.24** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | 0.195 U | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | **1.58** | NA | **2.50** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | 0.195 U | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | | NA | NA | NA | NA | NA | NA | NA | **0.449** | NA | **0.430** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | 0.195 U | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | 0.206 U | NA | 0.195 U | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | **1.12** | NA | **1.64** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | | NA | NA | NA | NA | NA | NA | NA | **0.943** | NA | **1.73** | 0.181 U | NA | 0.175 U | 0.184 U | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | 0.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | 0.0539 U | 0.123 U | 0.0682 U | 0.0597 U | 0.0510 U | 0.0531 U | 0.0509 U | 0.0552 U | 0.0531 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | 0.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | 0.0539 U | 0.123 U | 0.0682 U | 0.0597 U | 0.0510 U | 0.0531 U | 0.0509 U | 0.0552 U | 0.0531 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | 0.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | 0.0539 U | 0.123 U | 0.0682 U | 0.0597 U | 0.0510 U | 0.0531 U | 0.0509 U | 0.0552 U | 0.0531 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | 0.0539 U | 0.123 U | 0.0682 U | 0.0597 U | 0.0510 U | 0.0531 U | 0.0509 U | 0.0552 U | 0.0531 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | 0.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | 0.0539 U | 0.123 U | 0.0682 U | 0.0597 U | 0.0510 U | 0.0531 U | 0.0509 U | 0.0552 U | 0.0531 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | **5.15** | 0.117 U | 0.117 U | **0.179** | **12.4** | **0.181 J** | **4.63 J** | **0.358 J** | **0.436 J** | 0.0510 U | **0.0673 J** | 0.0509 U | **0.191 J** | 0.0531 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | 0.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | **0.0889 J** | **1.25 J** | **0.222 J** | **0.306 J** | 0.0510 U | 0.0531 U | 0.0509 U | 0.0552 U | 0.0531 U |
| | Aroclor 1262 | 1 | 4 | | N/A | N/A | N/A | | 0.1 U | 1.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | 2.13 U | 0.117 U | 0.117 U | 0.108 U | 0.113 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | | 0.1 U | **5.15** | 0.117 U | 0.117 U | **0.179** | **12.4** | **0.2699 J** | **5.88 J** | **0.580 J** | **0.742 J** | 0.0510 U | **0.0673 J** | 0.0509 U | **0.191 J** | 0.0531 U |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | 102 Greenwood St | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | K1.3 | | K5.5 | | M1.3 | | SB-187 | | SB-188 | | | SB-189 | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0.5-3 | 7.5-8 | 0.5-3 | 5-7 | 3-4 | 7.5-8 | 4 | 6 | 1 | 4.5 | 9 | 1 | 3.5 | 7 | 11 |
| | | | | | | | | Sample Date: | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/20/2006 | 6/9/2008 | 6/9/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 | 6/10/2008 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 4.93 U | NA | 4.66 U | 4.35 U | NA | 4.18 U | 4.42 U | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **32.0** | NA | **22.8** | **4.33** | NA | **2.87** | 2.76 U | NA |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **432** | NA | **343** | **12.8** | NA | **15.2** | **24.8** | NA |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.31 U | NA | **0.57** | 0.28 U | NA | 0.27 U | **0.31** | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **2.44** | NA | **1.30** | 0.28 U | NA | 0.27 U | 0.28 U | NA |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **41.9** | NA | **28.1** | **9.83** | NA | **4.83** | **4.61** | NA |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **846** | NA | **801** | **4.34** | NA | **4.50** | **31.1** | NA |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **0.823** | NA | **0.258** | 0.025 U | NA | 0.013 U | **0.013** | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **33.6** | NA | **30.8** | **6.31** | NA | **3.16** | **2.60** | NA |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 6.16 U | NA | 5.83 U | 5.43 U | NA | 5.23 U | 5.52 U | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **7.37** | NA | **8.88** | **1.04** | NA | **0.62** | 0.56 U | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 3.70 U | NA | 3.50 U | 3.26 U | NA | 3.14 U | 3.31 U | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **24.0** | NA | **18.8** | **13.4** | NA | **8.15** | **6.04** | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **759** | NA | **367** | **23.5** | NA | **13.2** | **37.1** | NA |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Lead | NS | NS | NS | N/A | 5 | 7.5 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Mercury | N/A | N/A | N/A | N/A | 0.2 | 2.0 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | | | | |
| | Ignitability | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (s.u.) | pH | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Cyanide | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Sulfide | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

**Gray shading indicates samples collected from deeper than 3 feet below grade.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

* - Sample depth for other/VOCs analysis; otherwise the sample depth applies to all listed analyses.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | 102 Greenwood St | | | 102 Greenwood St | | | | 102 Greenwood St | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-190 | | | | | | SB-191 | | | SB-192 | | | SB-193 | | | SB-194 | | | | |
| | | Sample Depth (ft.)*: | | | | | | 1 | 1 | 4 | 4 | 6 | 8 | 1 | 4 | 8 | 1 | 4 | 9 | 1 | 4 | 10 | 1 | 1 | 4 | 9 |
| | | Sample Date: | | | | | | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 Field Dup | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freor | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | 102 Greenwood St | | | 102 Greenwood St | | | | 102 Greenwood St | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-190 | | | | | | SB-191 | | | SB-192 | | | SB-193 | | | | SB-194 | | | |
| | | Sample Depth (ft.)*: | | | | | | 1 | 1 | 4 | 4 | 6 | 8 | 1 | 4 | 8 | 1 | 4 | 9 | 1 | 4 | 10 | | 1 | 1 | 4 | 9 |
| | | Sample Date: | | | | | | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 Field Dup | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | | | |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | **518** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | **414** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | **811** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | **3.41** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | **5.80** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | 0.143 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | **48.9** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | **0.949** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | **16.5** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | **19.1** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | 0.208 U | 0.182 U |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | **0.244** | 0.181 U | | 0.359 U | NA | **0.279** | 0.182 U |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.413** | 0.182 U |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | **0.462** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.757** | 0.182 U |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | **0.495** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.467** | 0.182 U |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.771** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.800** | 0.182 U |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | **0.301** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.291** | 0.182 U |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | **0.265** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.278** | 0.182 U |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.512** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.853** | 0.182 U |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | 0.208 U | 0.182 U |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.954** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | **0.221** | 0.186 U | NA | **0.195** | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **2.30** | 0.182 U |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | 0.208 U | 0.182 U |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | **0.346** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.333** | 0.182 U |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **0.748** | 0.182 U |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.189 U | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | **0.525** | 0.181 U | | 0.359 U | NA | **1.21** | 0.182 U |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.348** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | **0.260** | 0.181 U | | 0.359 U | NA | **2.00** | 0.182 U |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **0.588** | NA | 9.96 U | 9.63 U | NA | 0.182 U | NA | 0.220 U | 0.186 U | NA | 0.193 U | 0.178 U | NA | 0.211 U | 0.181 U | | 0.359 U | NA | **1.52** | 0.182 U |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0557 U | NA | 0.0581 U | 0.0602 U | 0.0639 U | 0.0522 U | 0.0510 U | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | 0.0535 U | 0.0624 U | 0.0528 U | | 0.108 U | NA | 0.576 U | 0.0532 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0557 U | NA | 0.0581 U | 0.0602 U | 0.0639 U | 0.0522 U | 0.0510 U | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | 0.0535 U | 0.0624 U | 0.0528 U | | 0.108 U | NA | 0.576 U | 0.0532 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0557 U | NA | 0.0581 U | 0.0602 U | 0.0639 U | 0.0522 U | 0.0510 U | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | 0.0535 U | 0.0624 U | 0.0528 U | | 0.108 U | NA | 0.576 U | 0.0532 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0557 U | NA | 0.0581 U | 0.0602 U | 0.0639 U | 0.0522 U | 0.0510 U | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | 0.0535 U | 0.0624 U | 0.0528 U | | 0.108 U | NA | 0.576 U | 0.0532 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0557 U | NA | 0.0581 U | 0.0602 U | 0.0639 U | 0.0522 U | 0.0510 U | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | 0.0535 U | 0.0624 U | 0.0528 U | | 0.108 U | NA | 0.576 U | 0.0532 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0557 U | NA | **0.199 J** | **0.310 J** | **0.358 J** | 0.0522 U | **0.142 J** | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | **0.215 J** | **0.299 J** | 0.0528 U | | **3.02 J** | NA | 0.576 U | 0.0532 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | **0.425 J** | NA | 0.0581 U | **0.119 J** | **0.616 J** | 0.0522 U | 0.0510 U | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | **0.0863 J** | 0.0624 U | 0.0528 U | | 0.108 U | NA | **26.6 J** | 0.0532 U |
| | Aroclor 1262 | 1 | 4 | | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **0.425 J** | NA | **0.199 J** | **0.429 J** | **0.974 J** | 0.0522 U | **0.142 J** | 0.0648 U | 0.0522 U | 0.0521 U | 0.0532 U | 0.0503 U | **0.3013 J** | **0.299 J** | 0.0528 U | | **3.02 J** | NA | **26.6 J** | 0.0532 U |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | 102 Greenwood St | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-190 | | | | | | SB-191 | | | SB-192 | | | SB-193 | | | SB-194 | | | |
| | | Sample Depth (ft.)*: | | | | | | 1 | 1 | 4 | 4 | 6 | 8 | 1 | 4 | 8 | 1 | 4 | 9 | 1 | 4 | 10 | 1 | 1 | 4 | 9 |
| | | Sample Date: | | | | | | 6/9/2008 | 9/12/2014 | 6/9/2008 | 6/9/2008 Field Dup | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 | 6/9/2008 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | 4.53 U | NA | 4.78 U | 4.62 U | NA | 4.37 U | NA | 5.27 U | 4.45 U | NA | 4.63 U | 4.26 U | NA | 5.06 U | 4.34 U | 4.31 U | NA | 4.99 U | 4.36 U |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | **5.87** | NA | **11.5** | **8.08** | NA | **4.10** | NA | **8.23** | **4.20** | NA | **8.68** | **4.66** | NA | **14.2** | **3.72** | **13.9** | NA | **11.3** | 2.73 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **97.8** | NA | **398** | **438** | NA | **9.74** | NA | **358** | **11.9** | NA | **47.3** | **10.6** | NA | **343** | **19.4** | **177** | NA | **227** | **17.3** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | 0.29 U | NA | **0.30 U** | 0.29 U | NA | 0.28 U | NA | **0.78** | 0.28 U | NA | 0.29 U | 0.27 U | NA | **0.93** | 0.28 U | **0.38** | NA | **0.63** | 0.28 U |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **1.15** | NA | **1.26** | **1.74** | NA | 0.28 U | NA | **0.37** | 0.28 U | NA | 0.29 U | 0.27 U | NA | **0.45** | 0.28 U | **1.52** | NA | **2.55** | 0.28 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **14.3** | NA | 122 | **45.5** | NA | **10.8** | NA | **14.8** | **8.17** | NA | **9.06** | **13.6** | NA | **13.0** | **8.19** | **19.6** | NA | **27.0** | **6.54** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **258** | NA | 1,510 | 460 | NA | **3.87** | NA | 219 | **4.39** | NA | 157 | **2.64** | NA | 161 | **3.90** | **1,030** | NA | 559 | **5.02** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | **0.437** | NA | **0.651** | **0.688** | NA | 0.016 U | NA | 0.025 U | 0.014 U | NA | **0.127** | 0.013 U | NA | **0.079** | 0.020 U | **1.00** | NA | **0.161** | 0.024 U |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **7.75** | NA | **25.5** | **13.7** | NA | **4.44** | NA | **9.90** | **3.99** | NA | **4.53** | **4.96** | NA | **17.8** | **4.07** | **13.8** | NA | **33.8** | **3.12** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | 5.66 U | NA | 5.98 U | 5.78 U | NA | 5.46 U | NA | 6.58 U | 5.56 U | NA | 5.79 U | 5.33 U | NA | 6.33 U | 5.43 U | 5.39 U | NA | 6.23 U | 5.45 U |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | **1.43** | NA | **2.87** | 0.58 U | NA | **0.80** | NA | **0.74** | **1.09** | NA | **0.79** | **0.80** | NA | **1.42** | **0.77** | **3.21** | NA | **9.48** | 0.55 U |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | 3.40 U | NA | 3.59 U | 3.47 U | NA | 3.28 U | NA | 3.95 U | 3.34 U | NA | 3.48 U | 3.20 U | NA | 3.80 U | **4.10** | 3.23 U | NA | 3.74 U | 3.27 U |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | **13.8** | NA | **16.6** | **11.8** | NA | **10.4** | NA | **23.0** | **12.6** | NA | **17.5** | **10.5** | NA | **27.9** | **9.65** | **16.7** | NA | **20.7** | **7.18** |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **181** | NA | **404** | **310** | NA | **12.3** | NA | **146** | **14.8** | NA | **44.2** | **14.2** | NA | **209** | **15.9** | **336** | NA | **182** | **18.6** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | **0.39** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | **1.0** | NA | NA |
| | Mercury | N/A | N/A | N/A | N/A | 0.2 | 2.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ignitability | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (s.u.) | pH | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Cyanide | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Sulfide | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

**Gray shading indicates samples collected from deeper than 3 feet below grade.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

* - Sample depth for other/VOCs analysis; otherwise the sample depth applies to all listed analyses.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | 102 Greenwood St | | | | 102 Greenwood St | | 102 Greenwood St | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-196 | | | SB-102-1 | | | | SB-102-2 | | SB-102-3 | | | SB-102-4A | | | | |
| | | Sample Depth (ft.)*: | | | | | | 1 | 3.5 | 8 | 0-1 | 0-3/3 | 1-3 | 1-3 | 0-1 | 1-3 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 |
| | | Sample Date: | | | | | | 6/10/2008 | 6/10/2008 | 6/10/2008 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | 0.10 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | 0.042 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | 0.021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | 0.0042 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freor | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | 0.0042 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | 0.10 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | 0.0042 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | 0.021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | 102 Greenwood St | | | | 102 Greenwood St | | 102 Greenwood St | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-196 | | | SB-102-1 | | | | SB-102-2 | | SB-102-3 | | | SB-102-4A | | | | |
| | | Sample Depth (ft.)*: | | | | | | 1 | 3.5 | 8 | 0-1 | 0-3/3 | 1-3 | 1-3 | 0-1 | 1-3 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 |
| | | Sample Date: | | | | | | 6/10/2008 | 6/10/2008 | 6/10/2008 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | 0.0042 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | 0.010 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | 0.0042 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.26** | 0.22 U | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.26** | 0.22 U | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.36** | 0.22 U | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.26** | 0.22 U | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.40** | 0.22 U | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | 0.20 U | 0.22 U | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.41** | 0.22 U | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | NA | 0.172 U | NA | 0.18 U | NA | NA | NA | 0.37 U | NA | 0.73 U | NA | NA | **0.42** | **0.23** | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0515 U | 0.0507 U | 0.0500 U | 0.0639 U | NA | 0.0565 U | NA | 0.0566 U | 0.0551 U | 0.0591 U | 0.0614 U | 0.0614 U | 0.0615 U | 0.0563 U | NA | 0.181 U | 0.0524 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0515 U | 0.0507 U | 0.0500 U | 0.0639 U | NA | 0.0565 U | NA | 0.0566 U | 0.0551 U | 0.0591 U | 0.0614 U | 0.0614 U | 0.0615 U | 0.0563 U | NA | 0.181 U | 0.0524 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0515 U | 0.0507 U | 0.0500 U | 0.0639 U | NA | 0.0565 U | NA | 0.0566 U | 0.0551 U | 0.0591 U | 0.0614 U | 0.0614 U | 0.0615 U | 0.0563 U | NA | 0.181 U | 0.0524 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0515 U | 0.0507 U | 0.0500 U | 0.0639 U | NA | 0.0565 U | NA | 0.0566 U | 0.0551 U | 0.0591 U | 0.0614 U | 0.0614 U | 0.0615 U | 0.0563 U | NA | 0.181 U | 0.0524 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0515 U | 0.0507 U | 0.0500 U | 0.0639 U | NA | 0.0565 U | NA | 0.0566 U | 0.0551 U | 0.0591 U | 0.0614 U | 0.0614 U | 0.0615 U | 0.0563 U | NA | 0.181 U | 0.0524 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **0.284 J** | **0.191 J** | **0.204 J** | **0.179 J** | NA | 0.0565 U | NA | **0.0692 J** | 0.0551 U | **0.099 J** | **0.301 J** | **0.301 J** | **0.612 J** | **0.682 J** | NA | **3.73** | 0.0524 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0515 U | 0.0507 U | 0.0500 U | 0.0639 U | NA | **0.0888 J** | NA | 0.0566 U | **0.0889 J** | 0.0591 U | **0.131 J** | **0.131 J** | 0.0615 U | **0.213** | NA | **0.670** | 0.0524 U |
| | Aroclor 1262 | 1 | 4 | | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **0.284 J** | **0.191 J** | **0.204 J** | **0.179 J** | NA | **0.0888 J** | NA | **0.0692 J** | **0.0889 J** | **0.099 J** | **0.432 J** | **0.432 J** | **0.612 J** | **0.895 J** | NA | **4.40** | 0.0524 U |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | **12** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | 102 Greenwood St | | | | 102 Greenwood St | | 102 Greenwood St | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-196 | | | SB-102-1 | | | | SB-102-2 | | SB-102-3 | | | SB-102-4A | | | | |
| | | Sample Depth (ft.)*: | | | | | | 1 | 3.5 | 8 | 0-1 | 0-3/3 | 1-3 | 1-3 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 0-1 | 1-3 | 1-3 | 5-6 | 7-9 |
| | | Sample Date: | | | | | | 6/10/2008 | 6/10/2008 | 6/10/2008 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | 4.12 U | NA | 2.5 U | NA | NA | NA | NA | NA | NA | **5.1** | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | NA | 2.58 U | NA | 2.5 U | NA | 2.9 U | NA | 2.8 U | 2.9 U | 2.7 U | **15** | NA | 2.8 U | **4.6** | NA | 2.7 U | 2.6 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | NA | **12.0** | NA | **28** | NA | **400** | NA | **40** | **32** | **70** | **260** | NA | **79** | **170** | NA | **160** | **11** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | 0.26 U | NA | 0.25 U | NA | NA | NA | NA | NA | NA | 0.32 U | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | NA | 0.26 U | NA | 0.25 U | NA | **5.0** | NA | 0.28 U | 0.29 U | 0.50 | **1.2** | NA | **0.62** | **1.2** | NA | **18** | 0.26 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | NA | **2.93** | NA | **6.7** | NA | **16** | NA | **7.1** | **8.1** | **15** | **46** | NA | **21** | **42** | NA | **43** | **5.8** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | NA | **4.78** | NA | **49** | NA | **2,900** | NA | **60** | **75** | **210** | **2,000** | NA | **310** | **460** | NA | **1,300** | **2.7** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | 0.019 U | NA | **0.049** | NA | NA | NA | NA | NA | NA | **93** | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | NA | **2.49** | NA | **5.1** | NA | **9.9** | NA | **4.0** | **4.6** | **8.0** | **49** | NA | **15** | **44** | NA | **29** | **3.4** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | 5.15 U | NA | 5.1 U | NA | NA | NA | NA | NA | NA | 6.4 U | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | 0.52 U | NA | 0.51 U | NA | NA | NA | NA | NA | NA | **3.7** | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | 3.09 U | NA | 2.5 U | NA | NA | NA | NA | NA | NA | 3.2 U | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | 5.15 U | NA | **14** | NA | NA | NA | NA | NA | NA | **31** | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | **12.6** | NA | **38** | NA | **1,200** | NA | **49** | **53** | **130** | **320** | NA | **170** | **280** | NA | **980** | **13** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | NA | NA | NA | NA | NA | **0.043** | NA | NA | NA | NA | **1.5** | NA | NA | **2.4** | NA | NA |
| | Mercury | N/A | N/A | N/A | N/A | 0.2 | 2.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00010 U | NA | NA | NA | NA | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ignitability | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NI | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (s.u.) | pH | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | **6.8** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Cyanide | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | 3.9 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Sulfide | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | 20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

**Gray shading indicates samples collected from deeper than 3 feet below grade.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

* - Sample depth for other/VOCs analysis; otherwise the sample depth applies to all listed analyses.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | SB-102-4B | | | | | SB-102-4C | | | | | | SB-102-4D | | | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0-1 | 0-1 | 1-3 | 5-6 | 8-10 | 0-1 | 0-1 | 0-3/1.5 | 1-3 | 5-7 | 10-12 | 0-1 | 0-1 | 1-3 | 1-3 | 4-5.5 | 8-10 |
| | | | | | | | | Sample Date: | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | Field Dup | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | | NA | NA | NA | NA | NA | NA | NA | 0.11 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | | NA | NA | NA | NA | NA | NA | NA | 0.044 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | | NA | NA | NA | NA | NA | NA | NA | 0.022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0044 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dichlorodifluoromethane (Freor | 1,000 | NS | NS | N/A | N/A | 72 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0044 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | | NA | NA | NA | NA | NA | NA | NA | 0.11 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0044 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | | NA | NA | NA | NA | NA | NA | NA | 0.022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 50 | N/A | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-4B | | | | | SB-102-4C | | | | | | SB-102-4D | | | | | |
| | | Sample Depth (ft.)*: | | | | | | 0-1 | 0-1 | 1-3 | 5-6 | 8-10 | 0-1 | 0-1 | 0-3/1.5 | 1-3 | 5-7 | 10-12 | 0-1 | 0-1 | 1-3 | 1-3 | 4-5.5 | 8-10 |
| | | Sample Date: | | | | | | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 Field Dup | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | 0.0044 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0044 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0022 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | 0.20 U | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | **0.20** | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | **0.32** | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | **0.80** | NA | NA | **0.34** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | 0.20 U | NA | NA | NA | NA | **0.77** | NA | NA | **0.33** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.24** | NA | NA | NA | NA | **1.1** | NA | NA | **0.46** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | 0.20 U | NA | NA | NA | NA | **0.32** | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | 0.20 U | NA | NA | NA | NA | **0.38** | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | **0.77** | NA | NA | **0.35** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.20 U | NA | NA | NA | NA | 0.20 U | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.20** | NA | NA | NA | NA | **1.5** | NA | NA | **0.48** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | 0.20 U | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | **0.42** | NA | NA | **0.20** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.20 U | NA | NA | NA | NA | 0.20 U | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.20 U | NA | NA | NA | NA | 0.20 U | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | 0.20 U | NA | NA | NA | NA | **1.4** | NA | NA | **0.53** | NA | NA | 0.21 U | 0.20 U | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | 0.20 U | NA | NA | NA | NA | **1.2** | NA | NA | **0.62** | NA | NA | 0.21 U | **0.22** | NA | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | 0.0559 U | 0.0604 U | 0.0524 U | 0.0603 U | NA | NA | 0.0568 U | 0.0570 U | 0.0647 U | 0.0615 U | 0.0625 U | 0.0604 U | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | 0.0559 U | 0.0604 U | 0.0524 U | 0.0603 U | NA | NA | 0.0568 U | 0.0570 U | 0.0647 U | 0.0615 U | 0.0625 U | 0.0604 U | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | 0.0559 U | 0.0604 U | 0.0524 U | 0.0603 U | NA | NA | 0.0568 U | 0.0570 U | 0.0647 U | 0.0615 U | 0.0625 U | 0.0604 U | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | 0.0559 U | 0.0604 U | 0.0524 U | 0.0603 U | NA | NA | 0.0568 U | 0.0570 U | 0.0647 U | 0.0615 U | 0.0625 U | 0.0604 U | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | 0.0559 U | 0.0604 U | 0.0524 U | 0.0603 U | NA | NA | 0.0568 U | 0.0570 U | 0.0647 U | 0.0615 U | 0.0625 U | 0.0604 U | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | **0.278 J** | **0.318 J** | 0.0524 U | **0.974 J** | NA | NA | **0.404 J** | **0.420 J** | 0.0647 U | **0.307 J** | **0.543 J** | **0.298 J** | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | **0.119 J** | **0.110 J** | 0.0524 U | **0.231 J** | NA | NA | **0.205 J** | **0.254 J** | 0.0647 U | 0.0615 U | 0.0625 U | **0.150 J** | NA | 0.0707 U | 0.0534 U |
| | Aroclor 1262 | 1 | 4 | | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | 0.0632 U | NA | **0.397 J** | **0.428 J** | 0.0524 U | **1.205 J** | NA | NA | **0.609 J** | **0.674 J** | 0.0647 U | **0.307 J** | **0.543 J** | **0.448 J** | NA | 0.0707 U | 0.0534 U |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | **160** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-4B | | | | | SB-102-4C | | | | | | SB-102-4D | | | | | |
| | | Sample Depth (ft.)*: | | | | | | 0-1 | 0-1 | 1-3 | 5-6 | 8-10 | 0-1 | 0-1 | 0-3/1.5 | 1-3 | 5-7 | 10-12 | 0-1 | 0-1 | 1-3 | 1-3 | 4-5.5 | 8-10 |
| | | Sample Date: | | | | | | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 9/12/2014 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 Field Dup | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | **3.3** | NA | 3.0 U | 3.4 U | 2.6 U | **3.5** | NA | NA | **3.6** | 3.0 U | 3.4 U | 3.0 U | 2.9 U | **4.5** | NA | **11** | 2.6 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | **410** | NA | **67** | **250** | **21** | **170** | NA | NA | **85** | **260** | **41** | **65** | **140** | **120** | NA | **510** | **23** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | **1.3** | NA | **0.36** | **4.1** | 0.26 U | **1.6** | NA | NA | **0.62** | **1.5** | 0.34 U | **0.52** | **0.59** | **0.69** | NA | **2.1** | 0.26 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | **24** | NA | **9.7** | **22** | **10** | **17** | NA | NA | **8.3** | **27** | **12** | **11** | **14** | **9.2** | NA | **31** | **9.3** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | **550** | NA | **150** | **840** | **4.3** | **500** | NA | NA | **440** | **1,000** | **6.5** | **180** | **270** | **300** | NA | **490** | **4.4** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | **15** | NA | **7.6** | **42** | **4.8** | **14** | NA | NA | **6.8** | **34** | **7.9** | **6.5** | **11** | **8.5** | NA | **17** | **4.6** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | **410** | NA | **110** | **820** | **24** | **380** | NA | NA | **150** | **450** | **38** | **170** | **160** | **180** | NA | **470** | **18** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Lead | NS | NS | NS | N/A | 5 | 7.5 | NA | **1.3** | NA | NA | NA | NA | **0.62** | NA | NA | NA | NA | NA | NA | NA | **0.81** | NA | NA |
| | Mercury | N/A | N/A | N/A | N/A | 0.2 | 2.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ignitability | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NI | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (s.u.) | pH | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | **7.7** | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Cyanide | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 3.9 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| (mg/kg) | Reactive Sulfide | N/A | N/A | N/A | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

**Gray shading indicates samples collected from deeper than 3 feet below grade.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

* - Sample depth for other/VOCs analysis; otherwise the sample depth applies to all listed analyses.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | SB-102-5B | | | | | SB-102-5C | | | | | | SB-102-7 | | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0-1 | 1-3 | 1-3 | 5-6 | 6-8 | 11-13 | 0-1 | 0-3/1.5 | 1-3 | 1-3 | 5-6 | 7-9 | 0-1 | 0-1 | 0-3/1.5 | 1-3 | 1-3 |
| | | | | | | | | Sample Date: | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/16/2010 | 9/12/2014 | 9/12/2014 | 12/16/2010 | 12/16/2010 Field Dup |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| **VOCs** (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | 0.093 U | NA | NA | NA | NA | NA | NA | 0.14 U | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | NA | NA | NA | 0.037 U | NA | NA | NA | NA | NA | NA | 0.056 U | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | 0.019 U | NA | NA | NA | NA | NA | NA | 0.028 U | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0037 U | NA | NA | NA | NA | NA | NA | 0.0056 U | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Dichlorodifluoromethane (Freor | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0037 U | NA | NA | NA | NA | NA | NA | 0.0056 U | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | NA | NA | NA | 0.093 U | NA | NA | NA | NA | NA | NA | 0.14 U | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.019 U | NA | NA | NA | NA | NA | NA | 0.028 U | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0037 U | NA | NA | NA | NA | NA | NA | 0.0056 U | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | 0.019 U | NA | NA | NA | NA | NA | NA | 0.028 U | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,1,2,2-Tetrachloroethene | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.00093 U | NA | NA | NA | NA | NA | NA | 0.0014 U | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-5B | | | | | | SB-102-5C | | | | | | SB-102-7 | | | | |
| | | Sample Depth (ft.)*: | | | | | | 0-1 | 1-3 | 1-3 | 5-6 | 6-8 | 11-13 | 0-1 | 0-3/1.5 | 1-3 | 1-3 | 5-6 | 7-9 | 0-1 | 0-1 | 0-3/1.5 | 1-3 | 1-3 |
| | | Sample Date: | | | | | | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/16/2010 | 9/12/2014 | 9/12/2014 | 12/16/2010 | 12/16/2010 Field Dup |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | 0.0037 U | NA | NA | NA | NA | NA | NA | 0.0056 U | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | **0.0032** | NA | NA | NA | NA | NA | NA | **0.0050** | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | 0.0093 U | NA | NA | NA | NA | NA | NA | 0.014 U | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0037 U | NA | NA | NA | NA | NA | NA | 0.0056 U | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | 0.0019 U | NA | NA | NA | NA | NA | NA | 0.0028 U | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.33** | NA | NA | 0.21 U | 0.19 U |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.32** | NA | NA | 0.21 U | 0.19 U |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.22** | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.37** | NA | NA | 0.21 U | **0.20** |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.21** | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.35** | NA | NA | 0.21 U | **0.19** |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.21** | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.51** | NA | NA | 0.21 U | **0.24** |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.26** | NA | NA | 0.21 U | 0.19 U |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.20 U | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | 0.19 U | NA | NA | 0.21 U | 0.19 U |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.22** | NA | NA | NA | NA | NA | 0.20 U | NA | NA | NA | NA | NA | **0.46** | NA | NA | 0.21 U | **0.28** |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **0.33** | NA | NA | NA | NA | NA | **0.28** | NA | NA | NA | NA | NA | **0.85** | NA | NA | 0.21 U | **0.44** |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.112 U | 0.116 U | NA | 0.0679 U | 0.0631 U | NA | 0.0623 U | NA | 0.0556 U | NA | 0.0725 U | 0.0567 U | 1.18 U | NA | NA | 0.0653 U | 0.255 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.112 U | 0.116 U | NA | 0.0679 U | 0.0631 U | NA | 0.0623 U | NA | 0.0556 U | NA | 0.0725 U | 0.0567 U | 1.18 U | NA | NA | 0.0653 U | 0.255 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.112 U | 0.116 U | NA | 0.0679 U | 0.0631 U | NA | 0.0623 U | NA | 0.0556 U | NA | 0.0725 U | 0.0567 U | 1.18 U | NA | NA | 0.0653 U | 0.255 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.112 U | 0.116 U | NA | 0.0679 U | 0.0631 U | NA | 0.0623 U | NA | 0.0556 U | NA | 0.0725 U | 0.0567 U | 1.18 U | NA | NA | 0.0653 U | 0.255 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.112 U | 0.116 U | NA | 0.0679 U | 0.0631 U | NA | 0.0623 U | NA | 0.0556 U | NA | 0.0725 U | 0.0567 U | 1.18 U | NA | NA | 0.0653 U | 0.255 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | **3.53 J** | **4.64 J** | NA | **0.206 J** | 0.0631 U | NA | **0.248 J** | NA | **0.820 J** | NA | 0.0725 U | 0.0567 U | **34.0 J** | NA | NA | **1.77 J** | **5.63 J** |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | **0.796 J** | **0.434** | NA | 0.0679 U | 0.0631 U | NA | **0.113 J** | NA | **0.111 J** | NA | 0.0725 U | 0.0567 U | 1.18 U | NA | NA | 0.0653 U | 0.255 U |
| | Aroclor 1262 | 1 | 4 | | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | **4.326 J** | **5.074 J** | NA | **0.206 J** | 0.0631 U | NA | **0.361 J** | NA | **0.931 J** | NA | 0.0725 U | 0.0567 U | **34.0 J** | NA | NA | **1.77 J** | **5.63 J** |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | **310** | NA | NA | NA | NA | NA | NA | **210** | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | | | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | SB-102-5B | | | | | SB-102-5C | | | | | | SB-102-7 | | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0-1 | 1-3 | 1-3 | 5-6 | 6-8 | 11-13 | 0-1 | 0-3/1.5 | 1-3 | 1-3 | 5-6 | 7-9 | 0-1 | 0-1 | 0-3/1.5 | 1-3 | 1-3 |
| | | | | | | | | Sample Date: | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 12/16/2010 | 9/12/2014 | 9/12/2014 | 12/16/2010 | 12/16/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | | Field Dup |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | 3.2 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | | **14** | **7.9** | NA | **15** | **4.1** | NA | **4.8** | NA | **4.2** | NA | **7.4** | 2.7 U | **4.4** | NA | NA | **4.4** | **4.5** |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | | **250** | **260** | NA | **360** | **210** | NA | **210** | NA | **1,200** | NA | **670** | **26** | **170** | NA | NA | **210** | **200** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | 0.32 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | | **1.1** | **2.1** | NA | **0.82** | **0.83** | NA | **1.9** | NA | **1.3** | NA | **0.73** | 0.27 U | **1.4** | NA | NA | **1.3** | **0.62** |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | | **27** | **31** | NA | **19** | **15** | NA | **14** | NA | **21** | NA | **19** | **12** | **22** | NA | NA | **23** | **11** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | | **370** | **420** | NA | **390** | **330** | **3.3** | **790** | NA | **4,600** | NA | **1,200** | **6.2** | **840** | NA | NA | **540** | **220** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | **0.66** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | | **56** | **25** | NA | **17** | **10** | NA | **12** | NA | **13** | NA | **15** | **5.4** | **10** | NA | NA | **16** | **12** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | 6.4 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | 0.64 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | 3.2 U | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | **22** | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | **350** | **680** | NA | **620** | **390** | NA | **1,000** | NA | **980** | NA | **610** | **14** | **390** | NA | NA | **350** | **180** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Lead | NS | NS | NS | N/A | 5 | 7.5 | | NA | NA | **0.13** | NA | NA | NA | NA | NA | NA | **0.29** | NA | NA | NA | **5.3** | NA | NA | NA |
| | Mercury | N/A | N/A | N/A | N/A | 0.2 | 2.0 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ignitability | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NI | NA | NA | NA | NA | NA | NA | NI | NA | NA |
| (s.u.) | pH | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | **7.0** | NA | NA | NA | NA | NA | NA | **6.8** | NA | NA |
| (mg/kg) | Reactive Cyanide | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 4.0 U | NA | NA | NA | NA | NA | NA | 4.0 U | NA | NA |
| (mg/kg) | Reactive Sulfide | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | 20 U | NA | NA | NA | NA | NA | NA | 20 U | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

**Gray shading indicates samples collected from deeper than 3 feet below grade.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

* - Sample depth for other/VOCs analysis; otherwise the sample depth applies to all listed analyses.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | 102 Greenwood St | | | 102 Greenwood St | | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-9 | | | | SB-102-10 | | | SB-102-11 | | | | | | SB-102-12 | | | | |
| | | Sample Depth (ft.)*: | | | | | | 0-1 | 0-1 | 0-1 | 1-3 | 0-1 | 0-1 | 1-3 | 1-2 | 2-6 | 0-3/3 | 2-3 | 7-9 | 0.5-1.5 | 0.5-1.5 | 0-3/1.5 | 3-5 | 7-9 |
| | | Sample Date: | | | | | | 12/16/2010 | 12/16/2010 Field Dup | 9/12/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 9/12/2014 | 12/15/2010 | 12/15/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| **VOCs** (mg/kg) | Acetone | 6 | 50 | 400 | N/A | N/A | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.11 U | NA | NA | NA | NA | 0.11 U | NA | NA |
| | tert-Amyl Methyl Ether (TAME | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Bromobenzene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Bromochloromethane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Bromodichloromethane | 0.1 | 0.1 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Bromoform | 0.1 | 1 | 800 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | Bromomethane | 0.5 | 0.5 | 30 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | 2-Butanone | 4 | 50 | 400 | 4,000 | N/A | 360 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.043 U | NA | NA | NA | NA | 0.042 U | NA | NA |
| | n-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | sec-Butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | tert-butylbenzene | 100(1) | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | tert-Butyl Ethyl Ether (TBEE) | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | Carbon disulfide | 100 | NS | NS | N/A | N/A | 48 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.021 U | NA | NA | NA | NA | 0.021 U | NA | NA |
| | Carbon tetrachloride | 5 | 5 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Chlorobenzene | 1 | 3.0 | 100 | 2,000 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Dibromochloromethane | 0.005 | 0.03 | 100 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | Chloroethane | 100 | NS | NS | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | Chloroform | 0.2 | 0.2 | 1,000 | 120 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0043 U | NA | NA | NA | NA | 0.0042 U | NA | NA |
| | Chloromethane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | 2-Chlorotoluene | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 4-Chlorotoluene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,2-Dibromo-3-chloropropane | 10.0 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 5 | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | Dibromomethane | 500 | NS | NS | N/A | N/A | 150 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,2-Dichlorobenzene | 9 | 100 | 300 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,3-Dichlorobenzene | 3 | 200 | 500 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,4-Dichlorobenzene | 0.7 | 1 | 400 | 150 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Dichlorodifluoromethane (Freor | 1,000 | NS | NS | N/A | N/A | 72 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | 1,1-Dichloroethane | 0.4 | 9 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,2-Dichloroethane | 0.1 | 0.1 | 100 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,1-Dichloroethene | 3 | 40 | 1,000 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0043 U | NA | NA | NA | NA | 0.0042 U | NA | NA |
| | cis-1,2-Dichloroethene | 0.1 | 0.1 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | trans-1,2-Dichloroethene | 1 | 1 | 1,000 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,2-Dichloropropane | 0.1 | 0.1 | 100 | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,3-Dichloropropane | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | 2,2-Dichloropropane | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,1-Dichloropropene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | cis-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | trans-1,3-Dichloropropene | 0.01(2) | 0.4(2) | 90(2) | N/A | N/A | 180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | Diethyl Ether | 100 | NS | NS | N/A | N/A | 1600 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | Diisopropyl Ether (DIPE) | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | 1,4-Dioxane | 0.2 | 6 | 90 | N/A | N/A | 1700 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.11 U | NA | NA | NA | NA | 0.11 U | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Hexachlorobutadiene | 30 | 100 | 100 | 10 | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 2-Hexanone | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.021 U | NA | NA | NA | NA | 0.021 U | NA | NA |
| | Isopropylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | p-Isopropyltoluene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Methyl tert-butyl ether | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0043 U | NA | NA | NA | NA | 0.0042 U | NA | NA |
| | Methylene chloride | 0.1 | 4 | 700 | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | 4-Methyl-2-pentanone | 0.4 | 50 | 400 | N/A | N/A | 330 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.021 U | NA | NA | NA | NA | 0.021 U | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | n-Propylbenzene | 100 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Styrene | 3 | 4 | 300 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 400 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,1,2,2-Tetrachloroethene | 0.005 | 0.02 | 50 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0011 U | NA | NA | NA | NA | 0.0011 U | NA | NA |
| | Tetrachloroethene | 1 | 10 | 200 | 14 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Tetrahydrofuran | 500 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | Sample Location: | | | | | | 102 Greenwood St | | | | 102 Greenwood St | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sample ID: | | | | | | SB-102-9 | | | | SB-102-10 | | | SB-102-11 | | | | | SB-102-12 | | | | |
| | | Sample Depth (ft.)*: | | | | | | 0-1 | 0-1 | 0-1 | 1-3 | 0-1 | 0-1 | 1-3 | 1-2 | 2-6 | 0-3/3 | 2-3 | 7-9 | 0.5-1.5 | 0.5-1.5 | 0-3/1.5 | 3-5 | 7-9 |
| | | Sample Date: | | | | | | 12/16/2010 | 12/16/2010 Field Dup | 9/12/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 9/12/2014 | 12/15/2010 | 12/15/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| | 1,2,3-Trichlorobenzene | NS | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | 1,2,4-Trichlorobenzene | 2 | 6 | 3,000 | N/A | N/A | 190 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0043 U | NA | NA | NA | NA | 0.0042 U | NA | NA |
| | 1,1,1-Trichloroethane | 30 | 600 | 1,000 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,1,2-Trichloroethane | 0 | 2 | 200 | N/A | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Trichloroethene | 0.3 | 0.3 | 60 | 10 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | **0.0054** | NA | NA |
| | Trichlorofluoromethane (Freon | 1,000 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | 1,2,3-Trichloropropane | 100 | NS | NS | N/A | N/A | 300 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,2,4-Trimethylbenzene | 1,000 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | 1,3,5-Trimethylbenzene | 10 | 500(1) | 500(1) | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| | Vinyl chloride | 0.7 | 0.7 | 7 | 4 | N/A | 60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.011 U | NA | NA | NA | NA | 0.011 U | NA | NA |
| | m & p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0043 U | NA | NA | NA | NA | 0.0042 U | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0021 U | NA | NA | NA | NA | 0.0021 U | NA | NA |
| **VPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C5-C8 Aliphatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C12 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C9-C10 Aromatics | 100 | 500 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzene | 2 | 200 | 200 | 10 | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Ethylbenzene | 40 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | MTBE | 0.1 | 100 | 500 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Toluene | 30 | 1,000 | 1,000 | N/A | N/A | 100 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | m/p-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | o-Xylene | 100 | 100 | 1,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **EPH** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | C9-C18 Aliphatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C19-C36 Aliphatics | 3,000 | 5,000 | 5,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C11-C22 Aromatics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenzofuran | 100 | NS | NS | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthene | 4 | 3,000 | 3,000 | N/A | N/A | 34 | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Acenaphthylene | 1 | 600 | 10 | N/A | N/A | 34 | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Anthracene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)anthracene | 7 | 40 | 40 | N/A | N/A | 34 | **0.62** | **0.57** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(a)pyrene | 2 | 7 | 7 | N/A | N/A | N/A | 0.19 U | **0.65** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(b)fluoranthene | 7 | 40 | 40 | N/A | N/A | 68 | **0.81** | **0.84** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(g,h,i)perylene | 1,000 | 3,000 | 3,000 | N/A | N/A | 18 | **0.30** | **0.34** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Benzo(k)fluoranthene | 70 | 400 | 400 | N/A | N/A | 68 | **0.30** | **0.28** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Chrysene | 70 | 400 | 400 | N/A | N/A | 34 | **0.63** | **0.61** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Dibenz(a,h)anthracene | 1 | 4 | 4 | N/A | N/A | 82 | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluoranthene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | **0.67** | **0.74** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Fluorene | 1,000 | 3,000 | 3,000 | N/A | N/A | 34 | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Indeno(1,2,3-cd)pyrene | 7 | 40 | 40 | N/A | N/A | 34 | **0.43** | **0.40** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2-Methylnaphthalene | 0.7 | 80 | 500 | N/A | N/A | N/A | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Naphthalene | 4 | 20 | 1,000 | N/A | N/A | 56 | 0.19 U | 0.19 U | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Phenanthrene | 10 | 1,000 | 1,000 | N/A | N/A | 56 | **0.53** | **0.57** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Pyrene | 1,000 | 3,000 | 3,000 | N/A | N/A | 82 | **1.2** | **1.1** | NA | 0.18 U | 0.20 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **PCBs** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Aroclor 1016/1242 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1016 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | 0.0593 U | NA | 0.0522 U | 0.0565 U | NA | 0.0500 U | 0.0523 U | 0.0621 U | NA | NA | 0.0559 U | 0.0540 U | NA | NA | 0.0514 U | 0.0571 U |
| | Aroclor 1221 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | 0.0593 U | NA | 0.0522 U | 0.0565 U | NA | 0.0500 U | 0.0523 U | 0.0621 U | NA | NA | 0.0559 U | 0.0540 U | NA | NA | 0.0514 U | 0.0571 U |
| | Aroclor 1232 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | 0.0593 U | NA | 0.0522 U | 0.0565 U | NA | 0.0500 U | 0.0523 U | 0.0621 U | NA | NA | 0.0559 U | 0.0540 U | NA | NA | 0.0514 U | 0.0571 U |
| | Aroclor 1242 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | 0.0593 U | NA | 0.0522 U | 0.0565 U | NA | 0.0500 U | 0.0523 U | 0.0621 U | NA | NA | 0.0559 U | 0.0540 U | NA | NA | 0.0514 U | 0.0571 U |
| | Aroclor 1248 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | 0.0593 U | NA | 0.0522 U | 0.0565 U | NA | 0.0500 U | 0.0523 U | 0.0621 U | NA | NA | 0.0559 U | 0.0540 U | NA | NA | 0.0514 U | 0.0571 U |
| | Aroclor 1254 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | **0.178 J** | NA | **0.246 J** | **0.350 J** | NA | 0.0500 U | 0.0523 U | **0.250 J** | NA | NA | 0.0559 U | **0.547 J** | NA | NA | 0.0514 U | 0.0571 U |
| | Aroclor 1260 | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | 0.0593 U | NA | 0.0522 U | 0.0565 U | NA | 0.0500 U | 0.0523 U | 0.0621 U | NA | NA | 0.0559 U | **0.110 J** | NA | NA | **0.984 J** | 0.0571 U |
| | Aroclor 1262 | 1 | 4 | | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Aroclor 1268 | 1 | 4 | 4 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Total PCBs | 1 | 4 | 4 | N/A | N/A | N/A | 0.0580 U | **0.178 J** | NA | **0.246 J** | **0.350 J** | NA | 0.0500 U | 0.0523 U | **0.250 J** | NA | NA | 0.0559 U | **0.657 J** | NA | NA | **0.984 J** | 0.0571 U |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Diesel Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | **56** | NA | NA | NA | NA | **160** | NA | NA |
| | Gasoline Range Organics | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

**Table 3**
**Summary of Analytical Results for Soil Borings Located Outside of Target PCB Excavation**
**2006 - 2014**
**102 Greenwood Street**
**New Bedford, Massachusetts**

| Analysis | Analyte | | | | | | | Sample Location: | 102 Greenwood St | | | 102 Greenwood St | | | 102 Greenwood St | | | | | 102 Greenwood St | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample ID: | SB-102-9 | | | SB-102-10 | | | SB-102-11 | | | | | SB-102-12 | | | | |
| | | | | | | | | Sample Depth (ft.)*: | 0-1 | 0-1 | 0-1 | 1-3 | 0-1 | 0-1 | 1-3 | 1-2 | 2-6 | 0-3/3 | 2-3 | 7-9 | 0.5-1.5 | 0.5-1.5 | 0-3/1.5 | 3-5 | 7-9 |
| | | | | | | | | Sample Date: | 12/16/2010 | 12/16/2010 Field Dup | 9/12/2014 | 12/16/2010 | 12/16/2010 | 9/12/2014 | 12/16/2010 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 9/12/2014 | 12/15/2010 | 12/15/2010 | 9/12/2014 | 9/12/2014 | 12/15/2010 | 12/15/2010 |
| | | RC S-1 | S-2/GW-2 | S-2/GW-3 | 20xTCLP(** | TCLP(**) | 10xUTS | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/kg) | Antimony | 20 | 30 | 30 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Arsenic | 20 | 20 | 20 | 100 | N/A | N/A | | **4.5** | **4.4** | NA | 2.5 U | 2.8 U | NA | 2.6 U | 2.7 U | **12** | NA | NA | 2.7 U | 2.7 U | NA | NA | **3.1** | 2.7 U |
| | Barium | 1,000 | 3,000 | 3,000 | 2,000 | N/A | N/A | | **150** | **130** | NA | **26** | **45** | NA | **10** | **34** | **650** | NA | NA | **30** | **120** | NA | NA | **150** | **24** |
| | Beryllium | 90 | 200 | 200 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Cadmium | 70 | 100 | 100 | 20 | N/A | N/A | | **0.88** | **0.90** | NA | 0.25 U | 0.28 U | NA | 0.26 U | 0.27 U | **2.8** | NA | NA | 0.27 U | **0.71** | NA | NA | **1.2** | 0.27 U |
| | Chromium | 100 | 200 | 200 | 100 | N/A | N/A | | **18** | **16** | NA | **9.6** | **8.7** | NA | **4.8** | **6.5** | **28** | NA | NA | **7.6** | **16** | NA | NA | **8.7** | **5.8** |
| | Lead | 200 | 600 | 600 | 100 | N/A | N/A | | **330** | **330** | NA | **21** | **130** | NA | **21** | **66** | **1,500** | NA | NA | **2.7** | **290** | NA | NA | 270 | **9.7** |
| | Mercury | 20 | 30 | 30 | 4 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Nickel | 600 | 1,000 | 1,000 | N/A | N/A | N/A | | **13** | **13** | NA | **5.8** | **8.4** | NA | **4.9** | **6.0** | **46** | NA | NA | **3.8** | **12** | NA | NA | **8.4** | **3.4** |
| | Selenium | 400 | 700 | 700 | 20 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Silver | 100 | 200 | 200 | 100 | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Thallium | 8 | 60 | 60 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Vanadium | 400 | 700 | 700 | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | Zinc | 1,000 | 3,000 | 3,000 | N/A | N/A | N/A | | **190** | **200** | NA | **26** | **68** | NA | **18** | **53** | **830** | NA | NA | **17** | **210** | NA | NA | **260** | **44** |
| **Metals, TCLP** | | | | | | | | | | | | | | | | | | | | | | | | |
| (mg/L) | Lead | NS | NS | NS | N/A | 5 | 7.5 | | NA | NA | **0.67** | NA | NA | **0.19** | NA | NA | NA | NA | **0.36** | NA | NA | **0.65** | NA | NA | NA |
| | Mercury | N/A | N/A | N/A | N/A | 0.2 | 2.0 | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ignitability | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NI | NA | NA | NA | NA | NI | NA | NA |
| (s.u.) | pH | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | **7.6** | NA | NA | NA | NA | **7.4** | NA | NA |
| (mg/kg) | Reactive Cyanide | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3.9 U | NA | NA | NA | NA | 3.9 U | NA | NA |
| (mg/kg) | Reactive Sulfide | N/A | N/A | N/A | N/A | N/A | N/A | | NA | NA | NA | NA | NA | NA | NA | NA | NA | 19 U | NA | NA | NA | NA | 20 U | NA | NA |

**Notes:**

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter

s.u. - Standard unit.

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

**Values shown in Bold and shaded type equal or exceed one or more of the 20xTCLP, TCLP limit, or 10xUTS.**

**Gray shading indicates samples collected from deeper than 3 feet below grade.**

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

UTS - Universal Treatment Standard, Non-Wastewater, July 1, 2010.

2005 and 2006 data are based on the "Summary of Analytical Data, New Bedford High School" dated June 9, 2006, BETA Group, Inc.

(1) - MassDEP Method 1 standards and RC for C9-C10 aromatics used.

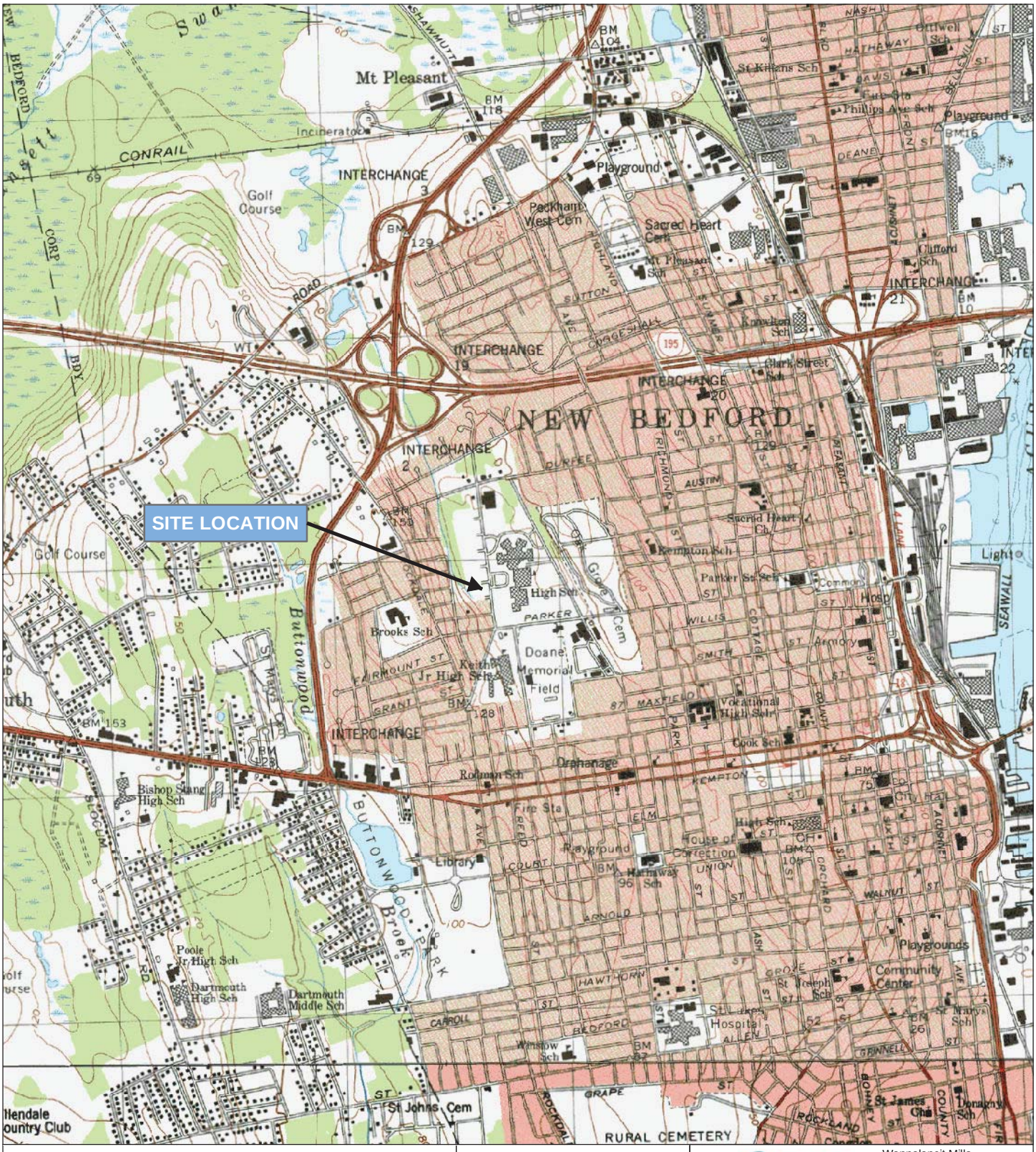
(2) - MassDEP RC for 1,3-Dichloropropene used.

^ - TRC developed standards.

* - Sample depth for other/VOCs analysis; otherwise the sample depth applies to all listed analyses.

** - SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

# FIGURES




0 1,000 2,000 Feet

N

*Base map: USGS 7.5 Minute Quadrangle New Bedford North (1979) and New Bedford South (1979)*

MASSACHUSETTS

SITE LOCATION

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
978-970-5600

# SITE LOCATION MAP

**ACQUIRED RESIDENTIAL PROPERTIES**

**NEW BEDFORD, MA**

| FIGURE 1 | AUGUST 2011 |
|---|---|

# 101 GREENWOOD STREET

## LEGEND

- EXISTING PROPERTY LINE
- EXISTING PAVEMENT
- EXISTING CHAIN LINK FENCE
- AREA ORIGINALLY PROPOSED FOR EXCAVATION TO 7-FOOT DEPTH (CONTAINS PCBs > 50 MG/KG) / VERIFICATION SAMPLE GRID PER 40 CFR 761.283 (1.5 METERS x 1.5 METERS)
- 101 EX1 / 101 EX2 / 101 EX3 / 1014D / 1016A — GROUP I.D.s FOR AREAS ORIGINALLY PROPOSED FOR EXCAVATION (PREFIXES USED IN 2013 SOIL SAMPLE I.D.s)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 3-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 5-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 6-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 7-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 8-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 9-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 11-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- 1PEX_1 (1-3') — PROPOSED POST EXCAVATION SAMPLE LOCATION WITH DEPTH
- G1 — PREVIOUS SITE CHARACTERIZATION BORING (PCB CONCENTRATION < 50 MG/KG)
- 101EX1SB-1 — TSCA PRECHARACTERIZATION DELINEATION BORING (RED SHADING INDICATES TOTAL PCB CONCENTRATION EXCEEDS 50 MG/KG AT ONE OR MORE SAMPLE DEPTH INTERVALS)
- SB-101-9 — PREVIOUS SITE CHARACTERIZATION BORING COMPLETED AS GROUNDWATER MONITORING WELL (2010)
- TP-101J — PREVIOUSLY EXCAVATED TEST PIT (SAMPLES COLLECTED FOR TOTAL PCB ANALYSIS)
- TP-101G — PREVIOUSLY EXCAVATED TEST PIT (SAMPLES NOT COLLECTED FOR PCB ANALYSIS, TOTAL PCB CONCENTRATIONS ASSUMED >50 MG/KG BASED ON ITEMS OBSERVED IN TEST PIT)

SOIL SAMPLE DEPTH INTERVAL IN FEET BELOW GROUND SURFACE — LISTS TOTAL PCB CONCENTRATION IN MG/KG IDENTIFIED IN SOIL AT THAT DEPTH INTERVAL. (GRAY SHADING INDICATES LABORATORY REPORTING LIMIT, PCBs NOT DETECTED). WHERE DUPLICATE RESULTS ARE AVAILABLE, THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE.

| | |
|---|---|
| 1–3 | 10 |
| 3–5 | 10 |
| 5–7 | 100 |
| 7–9 | 0.33 |

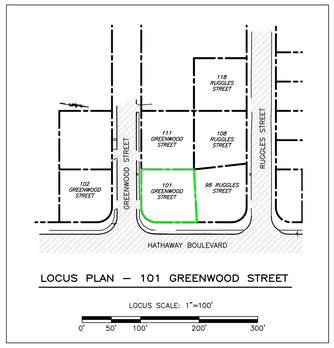
TSCA PRECHARACTERIZATION DELINEATION SAMPLE DEPTH INTERVALS AND TOTAL PCB CONCENTRATIONS (RED SHADING INDICATES TOTAL PCB CONCENTRATION EXCEEDS 50 MG/KG WITHIN THAT INTERVAL)

## 2014 TCLP SAMPLE RESULTS INFORMATION

- PASSED TCLP FOR METALS(S) [Cd, Cr, Hg, AND/OR Pb]
- EXCEEDED TCLP LIMIT FOR LEAD
- EXCEEDED TCLP LIMIT FOR CADMIUM
- SB-101-6D (1-3') — SAMPLE DEPTH PROVIDED IN PARENTHESES AND UNDERLINED

## NOTES

1. ONLY SOIL BORING LOCATIONS WHERE PCB DATA WAS COLLECTED ARE SHOWN ON THIS FIGURE.
2. TOTAL PCB DATA FOR TEST PITS REPRESENTS ANALYTICAL RESULTS FROM A COMPOSITE SAMPLE COLLECTED FROM SOIL EXCAVATED WITHIN THE TEST PIT AREA AT THAT DEPTH. THIS DATA DOES NOT REPRESENT ANALYSIS OF A SINGLE LOCATION OR TEST PIT SIDEWALL.




LOCUS PLAN – 101 GREENWOOD STREET

LOCUS SCALE: 1"=100'

0' 50' 100' 200' 300'

PLAN VIEW SCALE: 1"=3'

0' 1.5' 3' 6' 9'

| | |
|---|---|
| 101 GREENWOOD STREET (ACQ. RESIDENTIAL PROPERTIES) NEW BEDFORD, MA | |
| PRE-EXCAVATION PCB AND TCLP RESULTS SUMMARY PLAN | |
| TRC — Wannalancit Mills, 650 Suffolk Street, Lowell, MA 01854, (978) 970-5600 | FIGURE 2 |
| DRAWN BY: VCD | DATE: OCT 2014 |
| CHECKED BY: MAO | |

FILE: J:\Projects\115058 - New Bedford\APP - RAM Plan 2013_60 Percent Design\CAD\D-10 - Site Investigation Plan_12_TCLP_Results.dwg

# 102 GREENWOOD STREET

## LEGEND

- EXISTING PROPERTY LINE
- EXISTING PAVEMENT
- EXISTING CHAIN LINK FENCE
- AREA ORIGINALLY PROPOSED FOR EXCAVATION TO 7-FOOT DEPTH (CONTAINS PCBs > 50 MG/KG) / VERIFICATION SAMPLE GRID PER 40 CFR 761.283 (1.5 METERS x 1.5 METERS)
- 102 EX1 / 102 EX2 — GROUP I.D.s FOR AREAS ORIGINALLY PROPOSED FOR EXCAVATION (PREFIXES USED IN 2013 SOIL SAMPLE I.D.s)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 5-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 7-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 9-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 11-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 13-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 15-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 17-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- ADDITIONAL PROPOSED EXCAVATION AREA TO 19-FOOT DEPTH, FOLLOWING 2013 FIELD DATA COLLECTION (CONTAINS PCBs > 50 MG/KG)
- 2PEX_1 (1-3') — PROPOSED POST EXCAVATION SAMPLE AND DEPTH
- GT-2/MW-GT-2S&2D — GEOTECHNICAL BORING/NESTED MONITORING WELL
- GT-1 — GEOTECHNICAL BORING
- MW-43 — GROUND WATER MONITORING WELL
- K1_3 — PREVIOUS SITE CHARACTERIZATION BORING (PCB CONCENTRATION < 50 MG/KG)
- 102EX1SB1-A — TSCA PRECHARACTERIZATION DELINEATION BORING (RED SHADING INDICATES TOTAL PCB CONCENTRATION EXCEEDS 50 MG/KG AT ONE OR MORE SAMPLE DEPTH INTERVALS)
- SB-102-8D/MW-36 — PREVIOUS SITE CHARACTERIZATION BORING COMPLETED AS GROUNDWATER MONITORING WELL (2010)
- TP-102B — PREVIOUSLY EXCAVATED TEST PIT (SAMPLES COLLECTED FOR TOTAL PCB ANALYSIS)

SOIL SAMPLE DEPTH INTERVAL IN FEET BELOW GROUND SURFACE

| | |
|---|---|
| 1-3 | 10 |
| 3-5 | 10 |
| 5-7 | (100) |
| 7-9 | 0.33 |

LISTS TOTAL PCB CONCENTRATION IN MG/KG IDENTIFIED IN SOIL AT THAT DEPTH INTERVAL. (GRAY SHADING INDICATES LABORATORY REPORTING LIMIT, PCBs NOT DETECTED). WHERE DUPLICATE RESULTS ARE AVAILABLE, THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE.

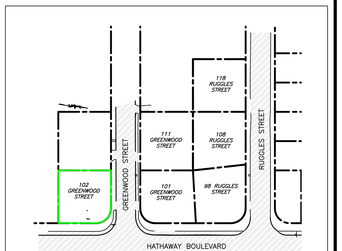
TSCA PRECHARACTERIZATION DELINEATION SAMPLE DEPTH INTERVALS AND TOTAL PCB CONCENTRATIONS (RED SHADING INDICATES TOTAL PCB CONCENTRATION EXCEEDS 50 MG/KG WITHIN THAT INTERVAL)

## 2014 TCLP SAMPLE RESULTS INFORMATION

- PASSED TCLP FOR METALS(S) [Cd, Cr, Hg, AND/OR Pb]
- PASSED TCLP FOR VOCs
- EXCEEDED TCLP LIMIT FOR LEAD
- SB-102-5C (1-3') — SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED

## NOTES

1. ONLY SOIL BORING LOCATIONS WHERE PCB DATA WAS COLLECTED ARE SHOWN ON THIS FIGURE.
2. TOTAL PCB DATA FOR TEST PIT TP102B REPRESENTS ANALYTICAL RESULTS FROM A COMPOSITE SAMPLE COLLECTED FROM SOIL EXCAVATED WITHIN THE TEST PIT AREA AT THAT DEPTH. THIS DATA DOES NOT REPRESENT ANALYSIS OF A SINGLE LOCATION OR TEST PIT SIDEWALL.




LOCUS PLAN – 102 GREENWOOD STREET

LOCUS SCALE: 1"=100'

0' 50' 100' 200' 300'

PLAN VIEW SCALE: 1"=3'

0' 1.5' 3' 6' 9'

| | |
|---|---|
| 102 GREENWOOD STREET (ACQ. RESIDENTIAL PROPERTIES) NEW BEDFORD, MA | |
| PRE-EXCAVATION PCB AND TCLP RESULTS SUMMARY PLAN | |
| TRC — Wannalancit Mills, 650 Suffolk Street, Lowell, MA 01854, (978) 970-5600 | FIGURE 3 |
| DRAWN BY: VCD | DATE: OCT 2014 |
| CHECKED BY: MAO | |

FILE: J:\Projects\115058 - New Bedford\WRP - RAM Plan 2013_60 Percent Design\CAD\c-10 - Site Investigation Plan_12_TCLP_Results.dwg

# APPENDIX A

# SOIL BORING AND MONITORING WELL LOGS

650 Suffolk Street
Lowell, MA
Telephone: 978-970-5600
Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

**CLIENT/PROJECT NUMBER** 102 Greenwood St/115058
**BORING/WELL NUMBER** GT-1
**TRC GEOLOGIST** Jamie Stapleton
**DRILLING CONTRACTOR/FOREMAN** Geologic/CME-75 auger/Dave Sheldon
**DATE DRILLED** 6/16/2014
**LOCATION** 102 Greenwood St
**SAMPLING METHOD** 24" Spoon
**DRILLING METHOD** HSA (0-27'), Drive & Wash (27-34'), automatic SPT hammer
**NOTES** Geotechnical samples submitted for grain size analysis.

**SCREEN TYPE/SLOT** NA
**FILTER PACK TYPE** NA
**SEAL TYPE** NA
**DEPTH TO WATER (Approximate Feet)** 14
**TOTAL DEPTH (Feet)** 36
**GROUND ELEVATION (Feet)** 91
**REFERENCE ELEVATION (Feet)** NA

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 0 | 2 | 24/12 | SS-S-1 | | Dark brown, loose, dry, fine to medium SAND, cinders, ash, little glass (FILL). | NA | | |
| 1 | 2 | | | | | | | |
| | 2 | | | | | | | |
| 2 | 2 | | | | | | | No Monitoring Well Installed |
| | 6 | 24/11 | SS-S-2 | | | | | |
| 3 | 3 | | | | | | | |
| | 3 | | | | | | | |
| 4 | 3 | | | | | | | |
| | 2 | 24/9 | SS-S-3 | | | | | |
| 5 | 2 | | | | | | | |
| | 2 | | | | | | | |
| 6 | 2 | | | | | | | |
| | 4 | 24/10 | SS-S-4 | | | | | |
| 7 | 2 | | | | Brown to gray, medium dense, dry, SILT, some clay, trace fine sand (ML). | | | |
| | 3 | | | | | | | |
| 8 | 4 | | | | | | | |
| | 7 | 24/18 | SS-S-5 | | | | | |
| 9 | 5 | | | | | | | |
| | 5 | | | | | | | |
| 10 | 4 | | | | | | | |
| | 3 | 24/20 | SS-S-6 | | | | | |
| 11 | 9 | | | | | | | |
| | 17 | | | | Brown, medium dense to dense, dry to wet, fine to medium SAND, little to some silt, trace coarse sand and gravel (SM). | | | |
| 12 | 24 | | | | | | | |
| | 33 | 24/20 | SS-S-7 | | | | | |
| 13 | 31 | | | | | | | |
| | 28 | | | | | | | |
| 14 | 22 | | | | | | | ▽ |
| 15 | | | | | | | | |
| | 14 | 36/15 | SS-S-8 | | | | | |
| 16 | 11 | | | | | | | |
| | 20 | | | | | | | |
| 17 | 24 | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

650 Suffolk Street
Lowell, MA
Telephone: 978-970-5600
Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

**BORING/WELL NUMBER** GT-1
**DATE DRILLED** 6/16/2014

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 21 | 3<br>6<br>7<br>10 | 60/13 | SS-S-9 | | Brown, medium dense to dense, dry to wet, fine to medium SAND, little to some silt, trace coarse sand and gravel (SM). | NA | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | 6<br>12<br>20<br>15 | 60/16 | SS-S-10 | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | 41<br>18<br>31<br>32 | 48/3 | SS-S-11 | | | | | |
| 30 | | | | | | | | |
| 31 | 32<br>30<br>21<br>23 | 24/19 | SS-S-12 | | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | 25<br>14<br>12<br>21 | 36/10 | SS-S-13 | | | | | |
| 35 | | | | | | | | |
| 36 | | | | | End of Boring 36 feet. | | | |

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# BORING/WELL CONSTRUCTION LOG

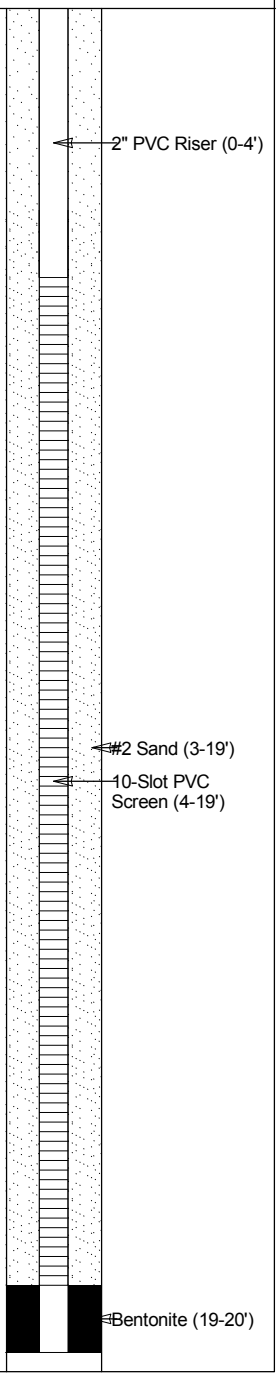
**CLIENT/PROJECT NUMBER** 102 Greenwood St/115058
**BORING/WELL NUMBER** GT-2 / MW-GT-2S
**TRC GEOLOGIST** Jason Fiero
**DRILLING CONTRACTOR/FOREMAN** Geologic/John
**DATE DRILLED** 9/12/2014 & 9/15/2014
**LOCATION** 102 Greenwood St
**SAMPLING METHOD** 24" Spoon
**DRILLING METHOD** Drive&wash CME-75 auger, automatic SPT hammer

**SCREEN TYPE/SLOT** PVC/2"/0.010-slot
**FILTER PACK TYPE** #2 Sand
**SEAL TYPE** Bentonite
**DEPTH TO WATER (Approximate Feet)** 11.5-12'
**TOTAL DEPTH (Feet)** 38.5
**GROUND ELEVATION (Feet)** 91
**REFERENCE ELEVATION (Feet)** NA

**NOTES** Geotechnical samples submitted for grain size analysis/sieve tests and vertical permeability testing. Wells are nested. 6" Borehole diameter.

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME |
|---|---|---|---|---|---|---|---|
| 0–1 | 5 9 7 9 | 24/22 | SS-1 | | 0-6" Brown SILT LOAM, little fine sand.<br>6-11" Tan fine SAND, some silt and sub-rounded gravel.<br>11-22" Orange to black FILL (silt, ash, glass, metal fragments), dry. | 0.0 | |
| 2–3 | 4 3 2 2 | 24/28 | SS-2 | | 0-18" Orange to black FILL (silt, ash, glass, metal fragments), dry. Moist at 3.5-4 feet with abundant ash and trace fine sand. | 0.5 | |
| 4–5 | 4 4 3 3 | 24/12 | SS-3 | | 0-12" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet. | 1.2 | |
| 6–7 | 6 2 6 7 | 24/18 | SS-4 | | 0-7" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet.<br>7-17" Black organic SILT and PEAT deposits. | 4.1 | |
| 8–9 | 18 11 8 7 | 24/19 | SS-5 | | 17-18" Gray fine SAND and SILT, little 1/8-1/4" sub-rounded gravel.<br>0-19" Gray to brown SILT and fine SAND, little to trace medium sand seams. | 0.2 | |
| 10–11 | 20 24 32 21 | 24/18 | SS-6 | | 0-6" Gray brown fine SAND, some to little silt and medium to coarse sand, medium dense.<br>6-18" Tan to orange brown fine to coarse SAND, some 1/8-3/4" sub-angular to angular gravel, little trace silt. Saturated groundwater table at ~ 11.5-12 feet. | 0.0 | |
| 12–13 | 29 44 52 64 | 24/20 | SS-7 | | 0-16" Brown running SILTY fine SAND. | 0.5 | |
| 14–15 | 27 49 52 32 | 24/15 | SS-8 | | 16-20" Gray to orange brown fine to coarse SAND, some 1/8-1/2" sub-angular gravel, trace silt.<br>0-12" Grey to orange brown fine to coarse SAND, some to little silt and 1/8-1" Sub-angular to angular gravel. | 0.0 | GT-2/SS-8 (15-16') |
| 16–17 | 30 21 35 38 | 24/8 | SS-9 | | 12-15" Fractured BOULDERS and COBBLES.<br>0-6" Tan gray brown fine to medium SAND, some silt, coarse sand, and angular to sub-angular 1/8-1/2" gravel. | | |
| 18–19 | 21 16 18 29 | 24/12 | SS-10 | | 6-8" Light brown to gray 1/2" sub-angular GRAVEL and medium SAND.<br>0-2" Gray GNEISS fragments, angular white-grey black moderately foliated.<br>2-10" Tan fine SAND, little medium sand and fine 1/16-1/8" sub-rounded gravel. | ND | |
| 20 | | | | | | | |

WELL DIAGRAM



650 Suffolk Street
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Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

**BORING/WELL NUMBER** GT-2 / MW-GT-2S
**DATE DRILLED** 9/12/2014 & 9/15/2014

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 21 | 24<br>21<br>15<br>18 | 24/10 | SS-11 | | 10-12" Gray to brown sub-angular to sub-rounded 1/8-1" GRAVEL.<br>0-10" Brown medium to coarse SAND and 1/8-1/4" Sub-angular to sub-rounded GRAVEL, little trace fine sand. | ND | GT-2/SS-11 (21-22') | |
| 22 | | | | | 10-12" White-gray GNEISS rock. | | | |
| 23 | 8<br>14<br>12<br>18 | 24/12 | SS-12 | | 0-8" Tan to brown fine to coarse SAND, trace 1/4"-1/2" sub-angular to sub-rounded gravel.<br>8-10" Tan to brown fine SAND. | ND | | |
| 24 | | | | | 10-12" Gray weathered/fractured ROCK. | | | |
| 25 | 29<br>20<br>12<br>10 | 24/8 | SS-13 | | 0-1.5" White to gray fractured GNEISS.<br>1.5-6.5" Brown fine to medium SAND, some little 1/4-3/4" angular gravel. | ND | | |
| 26 | | | | | 6.5-8" White gray black foliated GNEISS and angular Rock fragments. | | | |
| 27 | 10<br>12<br>18<br>30 | 24/14 | SS-14 | | 0-12.5" Brown fine to coarse SAND, some 1/8-1/2" angular to sub-angular gravel. | ND | | |
| 28 | | | | | 12.5-14" White to gray-white ROCK fragments. | | | |
| 29 | 12<br>14<br>13<br>17 | 24/18 | SS-15 | | 0-3" Coarse SAND and 1/8-1/4" angular GRAVEL<br>3-6" Brown fine to coarse SAND, little 1/8" sub-angular to angular gravel, trace silt.<br>6-10" Brown medium to coarse SAND, little fine sand and 1/8-1/4" sub-angular to angular gravel. | ND | | |
| 30 | | | | | 10-18" Brown fine SAND, some silt, little 1/8-1/4" sub-angular to angular gravel.<br>Drive and wash to 34 feet. | | | |
| 34 | 15<br>8<br>9<br>6 | 24/6 | SS-16 | | 0-4" Coarse SAND and 1/8-1/2" angular GRAVEL. | ND | | |
| 35 | | | | | 4-6" Angular pieces of GRANODIORITE with large pink plagioclase feldspar phenocrysts.<br>Drive and wash to 38.5 feet. | | | |
| 38 | | | | | End of Boring @ 38.5 feet. | | | |

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# BORING/WELL CONSTRUCTION LOG

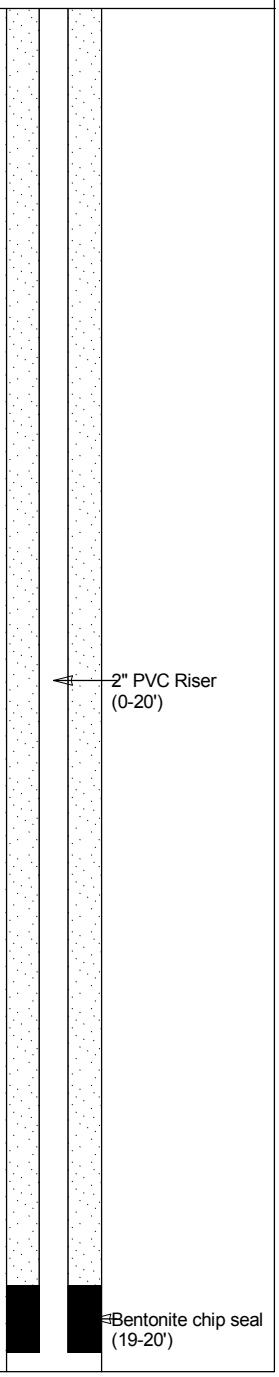
**CLIENT/PROJECT NUMBER** 102 Greenwood St/115058
**BORING/WELL NUMBER** GT-2 / MW-GT-2D
**TRC GEOLOGIST** Jason Fiero
**DRILLING CONTRACTOR/FOREMAN** Geologic/John
**DATE DRILLED** 9/12/2014 & 9/15/2014
**LOCATION** 102 Greenwood St
**SAMPLING METHOD** 24" Spoon
**DRILLING METHOD** Drive&wash CME-75 auger, automatic SPT hammer

**SCREEN TYPE/SLOT** PVC/2"/0.010-slot
**FILTER PACK TYPE** #2 Sand
**SEAL TYPE** Bentonite
**DEPTH TO WATER (Approximate Feet)** 11.5-12'
**TOTAL DEPTH (Feet)** 38.5
**GROUND ELEVATION (Feet)** 91
**REFERENCE ELEVATION (Feet)** NA

**NOTES** Geotechnical samples submitted for grain size analysis/sieve tests and vertical permeability testing. Wells are nested. 6" Borehole diameter.

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME |
|---|---|---|---|---|---|---|
| 0–1 | 5 9 7 9 | 24/22 | SS-1 | 0-6" Brown SILT LOAM, little fine sand.<br>6-11" Tan fine SAND, some silt and sub-rounded gravel.<br>11-22" Orange to black FILL (silt, ash, glass, metal fragments), dry. | 0.0 | |
| 2–3 | 4 3 2 2 | 24/28 | SS-2 | 0-18" Orange to black FILL (silt, ash, glass, metal fragments), dry. Moist at 3.5-4 feet with abundant ash and trace fine sand. | 0.5 | |
| 4–5 | 4 4 3 3 | 24/12 | SS-3 | 0-12" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet. | 1.2 | |
| 6–7 | 6 2 6 7 | 24/18 | SS-4 | 0-7" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet.<br>7-17" Black organic SILT and PEAT deposits. | 4.1 | |
| 8–9 | 18 11 8 7 | 24/19 | SS-5 | 17-18" Gray fine SAND and SILT, little 1/8-1/4" sub-rounded gravel.<br>0-19" Gray to brown SILT and fine SAND, little to trace medium sand seams. | 0.2 | |
| 10–11 | 20 24 32 21 | 24/18 | SS-6 | 0-6" Gray brown fine SAND, some to little silt and medium to coarse sand, medium dense.<br>6-18" Tan to orange brown fine to coarse SAND, some 1/8-3/4" sub-angular to angular gravel, little trace silt. Saturated groundwater table at ~ 11.5-12 feet. | 0.0 | |
| 12–13 | 29 44 52 64 | 24/20 | SS-7 | 0-16" Brown running SILTY fine SAND. | 0.5 | |
| 14–15 | 27 49 52 32 | 24/15 | SS-8 | 16-20" Gray to orange brown fine to coarse SAND, some 1/8-1/2" sub-angular gravel, trace silt.<br>0-12" Grey to orange brown fine to coarse SAND, some to little silt and 1/8-1" Sub-angular to angular gravel. | 0.0 | GT-2/SS-8 (15-16') |
| 16–17 | 30 21 35 38 | 24/8 | SS-9 | 12-15" Fractured BOULDERS and COBBLES.<br>0-6" Tan gray brown fine to medium SAND, some silt, coarse sand, and angular to sub-angular 1/8-1/2" gravel. | | |
| 18–19 | 21 16 18 29 | 24/12 | SS-10 | 6-8" Light brown to gray 1/2" sub-angular GRAVEL and medium SAND.<br>0-2" Gray GNEISS fragments, angular white-grey black moderately foliated.<br>2-10" Tan fine SAND, little medium sand and fine 1/16-1/8" sub-rounded gravel. | ND | |
| 20 | | | | | | |

WELL DIAGRAM



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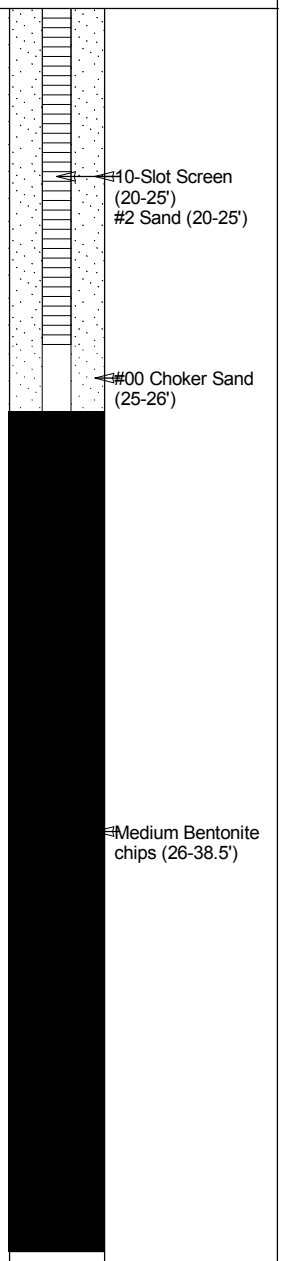
# BORING/WELL CONSTRUCTION LOG

**BORING/WELL NUMBER** GT-2 / MW-GT-2D
**DATE DRILLED** 9/12/2014 & 9/15/2014

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME |
|---|---|---|---|---|---|---|---|
| 21 | 24<br>21<br>15<br>18 | 24/10 | SS-11 | | 10-12" Gray to brown sub-angular to sub-rounded 1/8-1" GRAVEL.<br>0-10" Brown medium to coarse SAND and 1/8-1/4" Sub-angular to sub-rounded GRAVEL, little trace fine sand. | ND | GT-2/SS-11 (21-22') |
| 22 | | | | | 10-12" White-gray GNEISS rock. | | |
| 23 | 8<br>14<br>12<br>18 | 24/12 | SS-12 | | 0-8" Tan to brown fine to coarse SAND, trace 1/4"-1/2" sub-angular to sub-rounded gravel.<br>8-10" Tan to brown fine SAND. | ND | |
| 24 | | | | | 10-12" Gray weathered/fractured ROCK. | | |
| 25 | 29<br>20<br>12<br>10 | 24/8 | SS-13 | | 0-1.5" White to gray fractured GNEISS.<br>1.5-6.5" Brown fine to medium SAND, some little 1/4-3/4" angular gravel. | ND | |
| 26 | | | | | 6.5-8" White gray black foliated GNEISS and angular Rock fragments. | | |
| 27 | 10<br>12<br>18<br>30 | 24/14 | SS-14 | | 0-12.5" Brown fine to coarse SAND, some 1/8-1/2" angular to sub-angular gravel. | ND | |
| 28 | | | | | 12.5-14" White to gray-white ROCK fragments. | | |
| 29 | 12<br>14<br>13<br>17 | 24/18 | SS-15 | | 0-3" Coarse SAND and 1/8-1/4" angular GRAVEL<br>3-6" Brown fine to coarse SAND, little 1/8" sub-angular to angular gravel, trace silt.<br>6-10" Brown medium to coarse SAND, little fine sand and 1/8-1/4" sub-angular to angular gravel. | ND | |
| 30 | | | | | 10-18" Brown fine SAND, some silt, little 1/8-1/4" sub-angular to angular gravel.<br>Drive and wash to 34 feet. | | |
| 34 | 15<br>8<br>9<br>6 | 24/6 | SS-16 | | 0-4" Coarse SAND and 1/8-1/2" angular GRAVEL. | ND | |
| 36 | | | | | 4-6" Angular pieces of GRANODIORITE with large pink plagioclase feldspar phenocrysts.<br>Drive and wash to 38.5 feet. | | |
| 38 | | | | | End of Boring @ 38.5 feet. | | |




WELL DIAGRAM

# APPENDIX B

# LABORATORY REPORTS
# (ENVIRONMENTAL DATA)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 19, 2014

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: 101-102 Greenwood St., New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 14I0553

Enclosed are results of analyses for samples received by the laboratory on September 12, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

# Table of Contents

# Table of Contents (continued)

# Table of Contents (continued)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/19/2014

PURCHASE ORDER NUMBER: 72798

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14I0553

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

PROJECT LOCATION: 101-102 Greenwood St., New Bedford, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| SB-102-1 (0-3) | 14I0553-01 | Soil | | SM 2540G | |
| | | | | SW-846 1030 | |
| | | | | SW-846 8015C | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |
| SB-102-1 (3) | 14I0553-02 | Soil | | SM 2540G | |
| | | | | SW-846 8260C | |
| SB-102-1 (1-3) | 14I0553-03 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-190 (1) | 14I0553-04 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-10 (0-1) | 14I0553-05 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-9 (0-1) | 14I0553-06 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-11 (0-3) | 14I0553-07 | Soil | | SM 2540G | |
| | | | | SW-846 1030 | |
| | | | | SW-846 8015C | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |
| SB-102-11 (3) | 14I0553-08 | Soil | | SM 2540G | |
| | | | | SW-846 8260C | |
| SB-102-11 (2-3) | 14I0553-09 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-4D (1-3) | 14I0553-10 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-3 (1-3) | 14I0553-11 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| | | | | SW-846 7470A | |
| SB-102-4C (0-1) | 14I0553-12 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |

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TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/19/2014

PURCHASE ORDER NUMBER: 72798

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14I0553

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

PROJECT LOCATION: 101-102 Greenwood St., New Bedford, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| SB-102-4C (0-3) | 14I0553-13 | Soil | | SM 2540G | |
| | | | | SW-846 1030 | |
| | | | | SW-846 8015C | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |
| SB-102-4C (1.5) | 14I0553-14 | Soil | | SM 2540G | |
| | | | | SW-846 8260C | |
| SB-194 (1) | 14I0553-15 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-4B (0-1) | 14I0553-16 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-4A (1-3) | 14I0553-17 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-12 (0.5-1.5) | 14I0553-18 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-12 (0-3) | 14I0553-19 | Soil | | SM 2540G | |
| | | | | SW-846 1030 | |
| | | | | SW-846 8015C | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |
| SB-102-12 (1.5) | 14I0553-20 | Soil | | SM 2540G | |
| | | | | SW-846 8260C | |
| SB-102-8D/ MW-36 (5-7) | 14I0553-21 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-8A (1-3) | 14I0553-22 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-185 (6) | 14I0553-23 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-8C (1-3) | 14I0553-24 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |

con-test® ANALYTICAL LABORATORY

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

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/19/2014

PURCHASE ORDER NUMBER: 72798

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14I0553

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

PROJECT LOCATION: 101-102 Greenwood St., New Bedford, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| SB-102-8B (1-3) | 14I0553-25 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| 102EX1SB1B-1B (5-7) | 14I0553-26 | Soil | | SW-846 1311 | |
| | | | | SW-846 8260C | |
| SB-102-5C (0-3) | 14I0553-27 | Soil | | SM 2540G | |
| | | | | SW-846 1030 | |
| | | | | SW-846 8015C | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |
| SB-102-5C (1.5) | 14I0553-28 | Soil | | SM 2540G | |
| | | | | SW-846 8260C | |
| SB-102-5C (1-3) | 14I0553-29 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-5B (1-3) | 14I0553-30 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-5D (5-7) | 14I0553-31 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-5A (5-7) | 14I0553-32 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| 102EX1SB2A-1C1 (7-9) | 14I0553-33 | Soil | | SW-846 1311 | |
| | | | | SW-846 8260C | |
| 102EX1SB2A-2A (3-5) | 14I0553-34 | Soil | | SW-846 1311 | |
| | | | | SW-846 8260C | |
| SB-195 (7.5) | 14I0553-35 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| 102EX1SB2A-2 (4-6) | 14I0553-36 | Soil | | SW-846 1311 | |
| | | | | SW-846 8260C | |
| SB-102-7 (0-3) | 14I0553-37 | Soil | | SM 2540G | |
| | | | | SW-846 1030 | |
| | | | | SW-846 8015C | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |

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TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/19/2014

PURCHASE ORDER NUMBER: 72798

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14I0553

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

PROJECT LOCATION: 101-102 Greenwood St., New Bedford, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| SB-102-7 (1.5) | 14I0553-38 | Soil | | SM 2540G | |
| | | | | SW-846 8260C | |
| SB-102-7 (0-1) | 14I0553-39 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |

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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.

For method 6010, only Pb was requested and reported for all samples. Additionally, sample 14I0553-31 had Cd requested and reported.

A sample for requested inorganic analysis was not designated for matrix spike sample as per MA CAM.

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**SW-846 8260C**

**Qualifications:**

**L-04**

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

**Analyte & Samples(s) Qualified:**

**Vinyl Chloride**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**L-07**

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

**Analyte & Samples(s) Qualified:**

**1,2,3-Trichlorobenzene**

B105015-BSD1

**2-Butanone (MEK)**

B105195-BS1

**Naphthalene**

B105015-BSD1, B105110-BS1

**L-14**

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

**Analyte & Samples(s) Qualified:**

**Bromomethane**

B105015-BS1, B105110-BS1

**Chloromethane**

B105015-BS1, B105015-BSD1, B105110-BS1, B105110-BSD1

**Dichlorodifluoromethane (Freon 1**

B105015-BS1, B105015-BSD1

**R-05**

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

**Analyte & Samples(s) Qualified:**

**1,4-Dioxane**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1

**Bromomethane**

14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105110-BLK1, B105110-BS1, B105110-BSD1

**V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:**

**1,2,3-Trichlorobenzene**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**1,2,4-Trichlorobenzene**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**2-Butanone (MEK)**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**2-Hexanone (MBK)**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1

**Acetone**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**Naphthalene**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**Tetrahydrofuran**

14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105110-BLK1, B105110-BS1, B105110-BSD1

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**V-16**

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

**Analyte & Samples(s) Qualified:**

**1,4-Dioxane**

14I0553-02[SB-102-1 (3)], 14I0553-08[SB-102-11 (3)], 14I0553-14[SB-102-4C (1.5)], 14I0553-20[SB-102-12 (1.5)], 14I0553-28[SB-102-5C (1.5)], 14I0553-38[SB-102-7 (1.5)], B105015-BLK1, B105015-BS1, B105015-BSD1, B105110-BLK1, B105110-BS1, B105110-BSD1

**SW-846 9045C**

**Qualifications:**

**H-01**

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

**Analyte & Samples(s) Qualified:**

**pH**

14I0553-01[SB-102-1 (0-3)], 14I0553-07[SB-102-11 (0-3)], 14I0553-13[SB-102-4C (0-3)]

**SW-846 8015C**

Diesel Range Organics (C10-C28) is quantitated against a calibration made with a #2 fuel oil standard.

**SW-846 8260C**

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for “difficult analytes” where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

**SW-846 8270D**

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (0-3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-01**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | 12 | 8.9 | mg/Kg dry | 1 | | SW-846 8015C | 9/14/14 | 9/16/14 22:35 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | | | |
|---|---|---|---|---|---|---|---|
| o-Terphenyl | 85.1 | 40-140 | | | | 9/16/14 22:35 | |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (0-3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-01**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | > 212 °F | | present/absent | 1 | | SW-846 1030 | 9/16/14 | 9/16/14 21:35 | DJM |
| pH @19.8°C | 6.8 | | pH Units | 1 | H-01 | SW-846 9045C | 9/13/14 | 9/13/14 10:20 | MMH |
| Reactive Cyanide | ND | 3.9 | mg/Kg | 1 | | SW-846 9014 | 9/19/14 | 9/19/14 14:30 | DJM |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 9/19/14 | 9/19/14 15:25 | DJM |
| % Solids | 93.7 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-02**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.10 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Benzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Bromobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Bromochloromethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Bromodichloromethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Bromoform | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Bromomethane | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 2-Butanone (MEK) | ND | 0.042 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| n-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| sec-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| tert-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Carbon Disulfide | ND | 0.021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Carbon Tetrachloride | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Chlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Chloroethane | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Chloroform | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Chloromethane | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 2-Chlorotoluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 4-Chlorotoluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Dibromomethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1-Dichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2-Dichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1-Dichloroethylene | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2-Dichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 2,2-Dichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1-Dichloropropene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Diethyl Ether | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,4-Dioxane | ND | 0.10 | mg/Kg dry | 1 | R-05, V-16 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Ethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-02**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 2-Hexanone (MBK) | ND | 0.021 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Methylene Chloride | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Naphthalene | ND | 0.010 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| n-Propylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Styrene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Tetrachloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Tetrahydrofuran | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Toluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.010 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0042 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Trichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| Vinyl Chloride | ND | 0.010 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| m+p Xylene | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |
| o-Xylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:06 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 117 | 70-130 | | 9/16/14 16:06 |
| Toluene-d8 | 95.0 | 70-130 | | 9/16/14 16:06 |
| 4-Bromofluorobenzene | 89.7 | 70-130 | | 9/16/14 16:06 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-02**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.0 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (1-3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-03**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.3 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-1 (1-3)**  Sampled: 9/12/2014 08:53

**Sample ID: 14I0553-03**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.043 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:13 | OP |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-190 (1)**  Sampled: 9/12/2014 08:59

**Sample ID: 14I0553-04**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 93.3 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-190 (1)**  Sampled: 9/12/2014 08:59

**Sample ID: 14I0553-04**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.39 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:18 | OP |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-10 (0-1)**  Sampled: 9/12/2014 09:04

**Sample ID: 14I0553-05**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 96.1 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-10 (0-1)**  Sampled: 9/12/2014 09:04

**Sample ID: 14I0553-05**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.19 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:24 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-9 (0-1)**  Sampled: 9/12/2014 09:08

**Sample ID: 14I0553-06**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 89.9 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-9 (0-1)**  Sampled: 9/12/2014 09:08

**Sample ID: 14I0553-06**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.67 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:30 | OP |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (0-3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-07**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | 56 | 8.8 | mg/Kg dry | 1 | | SW-846 8015C | 9/14/14 | 9/16/14 23:28 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| o-Terphenyl | 78.3 | 40-140 | | 9/16/14 23:28 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (0-3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-07**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | > 212 °F | | present/absent | 1 | | SW-846 1030 | 9/16/14 | 9/16/14 21:35 | DJM |
| pH @20°C | 7.6 | | pH Units | 1 | H-01 | SW-846 9045C | 9/13/14 | 9/13/14 10:20 | MMH |
| Reactive Cyanide | ND | 3.9 | mg/Kg | 1 | | SW-846 9014 | 9/19/14 | 9/19/14 14:30 | DJM |
| Reactive Sulfide | ND | 19 | mg/Kg | 1 | | SW-846 9030A | 9/19/14 | 9/19/14 15:25 | DJM |
| % Solids | 94.3 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-08**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.11 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Benzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Bromobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Bromochloromethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Bromodichloromethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Bromoform | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 2-Butanone (MEK) | ND | 0.043 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| n-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| sec-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| tert-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Carbon Disulfide | ND | 0.021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Carbon Tetrachloride | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Chlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Chloroethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Chloroform | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 2-Chlorotoluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 4-Chlorotoluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Dibromomethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1-Dichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2-Dichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1-Dichloroethylene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2-Dichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 2,2-Dichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1-Dichloropropene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Diethyl Ether | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | R-05, V-16 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Ethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-08**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 2-Hexanone (MBK) | ND | 0.021 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Methylene Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Naphthalene | ND | 0.011 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| n-Propylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Styrene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Tetrachloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Toluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.011 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0043 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Trichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| m+p Xylene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |
| o-Xylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 16:33 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 | | 9/16/14 16:33 |
| Toluene-d8 | 96.4 | 70-130 | | 9/16/14 16:33 |
| 4-Bromofluorobenzene | 87.0 | 70-130 | | 9/16/14 16:33 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-08**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 92.5 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (2-3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-09**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 90.6 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-11 (2-3)**  Sampled: 9/12/2014 09:24

**Sample ID: 14I0553-09**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.36 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:34 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4D (1-3)**  Sampled: 9/12/2014 09:38

**Sample ID: 14I0553-10**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 87.2 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4D (1-3)**  Sampled: 9/12/2014 09:38

**Sample ID: 14I0553-10**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.81 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:39 | OP |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-3 (1-3)**  Sampled: 9/12/2014 09:42

**Sample ID: 14I0553-11**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 90.7 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-3 (1-3)**  Sampled: 9/12/2014 09:42

**Sample ID: 14I0553-11**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 9/18/14 | 9/19/14 9:48 | SCB |
| Lead | 1.5 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:45 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (0-1)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-12**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 88.2 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (0-1)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-12**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.62 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:51 | OP |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (0-3)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-13**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | 160 | 54 | mg/Kg dry | 5 | | SW-846 8015C | 9/14/14 | 9/16/14 19:22 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| o-Terphenyl | 90.5 | 40-140 | | 9/16/14 19:22 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (0-3)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-13**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | > 212 °F | | present/absent | 1 | | SW-846 1030 | 9/16/14 | 9/16/14 21:35 | DJM |
| pH @19.6°C | 7.7 | | pH Units | 1 | H-01 | SW-846 9045C | 9/13/14 | 9/13/14 10:20 | MMH |
| Reactive Cyanide | ND | 3.9 | mg/Kg | 1 | | SW-846 9014 | 9/19/14 | 9/19/14 14:30 | DJM |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 9/19/14 | 9/19/14 15:25 | DJM |
| % Solids | 76.1 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (1.5)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-14**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.11 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Benzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Bromobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Bromochloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Bromodichloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Bromoform | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 2-Butanone (MEK) | ND | 0.044 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| n-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| sec-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| tert-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Carbon Disulfide | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Carbon Tetrachloride | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Chlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Chloroethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Chloroform | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 2-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 4-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Dibromomethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1-Dichloroethylene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 2,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1-Dichloropropene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Diethyl Ether | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | R-05, V-16 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Ethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (1.5)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-14**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 2-Hexanone (MBK) | ND | 0.022 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Methylene Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Naphthalene | ND | 0.011 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| n-Propylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Styrene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Tetrachloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Toluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.011 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0044 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Trichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| m+p Xylene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |
| o-Xylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:01 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 117 | 70-130 | | 9/16/14 17:01 |
| Toluene-d8 | 94.6 | 70-130 | | 9/16/14 17:01 |
| 4-Bromofluorobenzene | 87.6 | 70-130 | | 9/16/14 17:01 |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4C (1.5)**  Sampled: 9/12/2014 09:52

**Sample ID: 14I0553-14**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 91.3 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-194 (1)**  Sampled: 9/12/2014 09:58

**Sample ID: 14I0553-15**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 91.4 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-194 (1)**  Sampled: 9/12/2014 09:58

**Sample ID: 14I0553-15**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.0 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:56 | OP |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4B (0-1)**  Sampled: 9/12/2014 10:05

**Sample ID: 14I0553-16**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 93.0 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4B (0-1)**  Sampled: 9/12/2014 10:05

**Sample ID: 14I0553-16**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.3 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:02 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4A (1-3)**  Sampled: 9/12/2014 10:13

**Sample ID: 14I0553-17**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 86.8 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-4A (1-3)**  Sampled: 9/12/2014 10:13

**Sample ID: 14I0553-17**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.4 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:23 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (0.5-1.5)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-18**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 92.7 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (0.5-1.5)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-18**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.65 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:29 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (0-3)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-19**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | 160 | 45 | mg/Kg dry | 5 | | SW-846 8015C | 9/14/14 | 9/16/14 19:39 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| o-Terphenyl | 79.1 | 40-140 | | 9/16/14 19:39 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (0-3)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-19**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | > 212 °F | | present/absent | 1 | | SW-846 1030 | 9/16/14 | 9/16/14 21:35 | DJM |
| pH @20.1°C | 7.4 | | pH Units | 1 | | SW-846 9045C | 9/13/14 | 9/13/14 10:20 | MMH |
| Reactive Cyanide | ND | 3.9 | mg/Kg | 1 | | SW-846 9014 | 9/19/14 | 9/19/14 14:30 | DJM |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 9/19/14 | 9/19/14 15:25 | DJM |
| % Solids | 91.8 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (1.5)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-20**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.11 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Benzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Bromobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Bromochloromethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Bromodichloromethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Bromoform | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 2-Butanone (MEK) | ND | 0.042 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| n-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| sec-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| tert-Butylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Carbon Disulfide | ND | 0.021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Carbon Tetrachloride | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Chlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Chloroethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Chloroform | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 2-Chlorotoluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 4-Chlorotoluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Dibromomethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1-Dichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2-Dichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1-Dichloroethylene | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2-Dichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 2,2-Dichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1-Dichloropropene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Diethyl Ether | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | R-05, V-16 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Ethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (1.5)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-20**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 2-Hexanone (MBK) | ND | 0.021 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Methylene Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Naphthalene | ND | 0.011 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| n-Propylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Styrene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Tetrachloroethylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Toluene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.011 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0042 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Trichloroethylene | 0.0054 | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| m+p Xylene | ND | 0.0042 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |
| o-Xylene | ND | 0.0021 | mg/Kg dry | 1 | | SW-846 8260C | 9/16/14 | 9/16/14 17:28 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 118 | 70-130 | | 9/16/14 17:28 |
| Toluene-d8 | 95.8 | 70-130 | | 9/16/14 17:28 |
| 4-Bromofluorobenzene | 88.8 | 70-130 | | 9/16/14 17:28 |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-12 (1.5)**  Sampled: 9/12/2014 10:20

**Sample ID: 14I0553-20**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 90.4 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8D/ MW-36 (5-7)**  Sampled: 9/12/2014 10:34

**Sample ID: 14I0553-21**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 77.0 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8D/ MW-36 (5-7)**  Sampled: 9/12/2014 10:34

**Sample ID: 14I0553-21**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.19 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:34 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8A (1-3)**  Sampled: 9/12/2014 10:39

**Sample ID: 14I0553-22**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 95.1 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8A (1-3)**  Sampled: 9/12/2014 10:39

**Sample ID: 14I0553-22**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.45 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:40 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-185 (6)**  Sampled: 9/12/2014 10:50

**Sample ID: 14I0553-23**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 65.7 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-185 (6)**  Sampled: 9/12/2014 10:50

**Sample ID: 14I0553-23**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.8 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:46 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8C (1-3)**  Sampled: 9/12/2014 11:01

**Sample ID: 14I0553-24**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 90.1 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8C (1-3)**  Sampled: 9/12/2014 11:01

**Sample ID: 14I0553-24**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 3.3 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:52 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8B (1-3)**  Sampled: 9/12/2014 11:24

**Sample ID: 14I0553-25**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 89.9 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-8B (1-3)**  Sampled: 9/12/2014 11:24

**Sample ID: 14I0553-25**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.5 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 19:57 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: 102EX1SB1B-1B (5-7)**  Sampled: 9/12/2014 11:52

**Sample ID: 14I0553-26**

Sample Matrix: Soil

**TCLP - Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| 2-Butanone (MEK) | ND | 0.20 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| Carbon Tetrachloride | ND | 0.050 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| Chlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| Chloroform | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| 1,4-Dichlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| 1,2-Dichloroethane | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| 1,1-Dichloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| Tetrachloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| Trichloroethylene | 0.026 | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |
| Vinyl Chloride | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 16:35 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98.6 | 70-130 | | 9/18/14 | 16:35 |
| Toluene-d8 | 100 | 70-130 | | 9/18/14 | 16:35 |
| 4-Bromofluorobenzene | 96.3 | 70-130 | | 9/18/14 | 16:35 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (0-3)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-27**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | 310 | 45 | mg/Kg dry | 5 | | SW-846 8015C | 9/14/14 | 9/17/14 2:41 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | | | |
|---|---|---|---|---|---|---|---|
| o-Terphenyl | 56.7 | 40-140 | | | | 9/17/14 2:41 | |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (0-3)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-27**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | > 212 °F | | present/absent | 1 | | SW-846 1030 | 9/16/14 | 9/16/14 21:35 | DJM |
| pH @19.1°C | 7.0 | | pH Units | 1 | | SW-846 9045C | 9/13/14 | 9/13/14 10:20 | MMH |
| Reactive Cyanide | ND | 4.0 | mg/Kg | 1 | | SW-846 9014 | 9/19/14 | 9/19/14 14:30 | DJM |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 9/19/14 | 9/19/14 15:25 | DJM |
| % Solids | 92.2 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (1.5)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-28**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.093 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Benzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Bromobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Bromochloromethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Bromodichloromethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Bromoform | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Bromomethane | ND | 0.0093 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 2-Butanone (MEK) | ND | 0.037 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| n-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| sec-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| tert-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Carbon Disulfide | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Carbon Tetrachloride | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Chlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Chlorodibromomethane | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Chloroethane | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Chloroform | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Chloromethane | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 2-Chlorotoluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 4-Chlorotoluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Dibromomethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1-Dichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2-Dichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1-Dichloroethylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,3-Dichloropropane | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 2,2-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1-Dichloropropene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Diethyl Ether | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,4-Dioxane | ND | 0.093 | mg/Kg dry | 1 | V-16 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Ethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (1.5)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-28**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 2-Hexanone (MBK) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Methylene Chloride | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Naphthalene | ND | 0.0093 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| n-Propylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Styrene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Tetrachloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Tetrahydrofuran | ND | 0.0093 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Toluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0093 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Trichloroethylene | 0.0032 | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0093 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| Vinyl Chloride | ND | 0.0093 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| m+p Xylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |
| o-Xylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 8:48 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 | | 9/17/14 8:48 |
| Toluene-d8 | 95.0 | 70-130 | | 9/17/14 8:48 |
| 4-Bromofluorobenzene | 91.5 | 70-130 | | 9/17/14 8:48 |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (1.5)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-28**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 97.1 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (1-3)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-29**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.0 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5C (1-3)**  Sampled: 9/12/2014 12:01

**Sample ID: 14I0553-29**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.29 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 20:01 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5B (1-3)**  Sampled: 9/12/2014 12:03

**Sample ID: 14I0553-30**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.0 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5B (1-3)**  Sampled: 9/12/2014 12:03

**Sample ID: 14I0553-30**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.13 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:19 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5D (5-7)**  Sampled: 9/12/2014 12:45

**Sample ID: 14I0553-31**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 73.8 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5D (5-7)**  Sampled: 9/12/2014 12:45

**Sample ID: 14I0553-31**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.0081 | 0.0040 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:14 | OP |
| Lead | 0.42 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:14 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5A (5-7)**  Sampled: 9/12/2014 12:52

**Sample ID: 14I0553-32**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 95.3 | | % Wt | 1 | | SM 2540G | 9/15/14 | 9/16/14 9:29 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-5A (5-7)**  Sampled: 9/12/2014 12:52

**Sample ID: 14I0553-32**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.12 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:25 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: 102EX1SB2A-1C1 (7-9)**  Sampled: 9/12/2014 13:13

**Sample ID: 14I0553-33**

Sample Matrix: Soil

**TCLP - Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| 2-Butanone (MEK) | ND | 0.20 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| Carbon Tetrachloride | ND | 0.050 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| Chlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| Chloroform | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| 1,4-Dichlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| 1,2-Dichloroethane | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| 1,1-Dichloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| Tetrachloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| Trichloroethylene | 0.028 | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |
| Vinyl Chloride | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:06 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98.6 | 70-130 | | 9/18/14 | 17:06 |
| Toluene-d8 | 99.1 | 70-130 | | 9/18/14 | 17:06 |
| 4-Bromofluorobenzene | 96.0 | 70-130 | | 9/18/14 | 17:06 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: 102EX1SB2A-2A (3-5)**  Sampled: 9/12/2014 13:17

**Sample ID: 14I0553-34**

Sample Matrix: Soil

**TCLP - Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| 2-Butanone (MEK) | ND | 0.20 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| Carbon Tetrachloride | ND | 0.050 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| Chlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| Chloroform | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| 1,4-Dichlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| 1,2-Dichloroethane | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| 1,1-Dichloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| Tetrachloroethylene | 0.025 | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| Trichloroethylene | 0.014 | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |
| Vinyl Chloride | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 17:38 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99.1 | 70-130 | | 9/18/14 | 17:38 |
| Toluene-d8 | 98.2 | 70-130 | | 9/18/14 | 17:38 |
| 4-Bromofluorobenzene | 95.2 | 70-130 | | 9/18/14 | 17:38 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-195 (7.5)**  Sampled: 9/12/2014 13:25

**Sample ID: 14I0553-35**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 42.8 | | % Wt | 1 | | SM 2540G | 9/16/14 | 9/16/14 12:54 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-195 (7.5)**  Sampled: 9/12/2014 13:25

**Sample ID: 14I0553-35**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:30 | OP |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: 102EX1SB2A-2 (4-6)**  Sampled: 9/12/2014 13:48

**Sample ID: 14I0553-36**

Sample Matrix: Soil

**TCLP - Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| 2-Butanone (MEK) | ND | 0.20 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| Carbon Tetrachloride | ND | 0.050 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| Chlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| Chloroform | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| 1,4-Dichlorobenzene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| 1,2-Dichloroethane | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| 1,1-Dichloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| Tetrachloroethylene | ND | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| Trichloroethylene | 0.074 | 0.010 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |
| Vinyl Chloride | ND | 0.020 | mg/L | 1 | | SW-846 8260C | 9/18/14 | 9/18/14 18:09 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99.2 | 70-130 | | 9/18/14 | 18:09 |
| Toluene-d8 | 99.7 | 70-130 | | 9/18/14 | 18:09 |
| 4-Bromofluorobenzene | 96.8 | 70-130 | | 9/18/14 | 18:09 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (0-3)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-37**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | 210 | 48 | mg/Kg dry | 5 | | SW-846 8015C | 9/14/14 | 9/17/14 2:24 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| o-Terphenyl | 64.8 | 40-140 | | 9/17/14 2:24 |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (0-3)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-37**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | > 212 °F | | present/absent | 1 | | SW-846 1030 | 9/16/14 | 9/16/14 21:35 | DJM |
| pH @18.6°C | 6.8 | | pH Units | 1 | | SW-846 9045C | 9/13/14 | 9/13/14 10:20 | MMH |
| Reactive Cyanide | ND | 4.0 | mg/Kg | 1 | | SW-846 9014 | 9/19/14 | 9/19/14 14:30 | DJM |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 9/19/14 | 9/19/14 15:25 | DJM |
| % Solids | 86.5 | | % Wt | 1 | | SM 2540G | 9/16/14 | 9/16/14 12:54 | MRL |

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Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (1.5)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-38**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.14 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Benzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Bromobenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Bromochloromethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Bromodichloromethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Bromoform | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Bromomethane | ND | 0.014 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 2-Butanone (MEK) | ND | 0.056 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| n-Butylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| sec-Butylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| tert-Butylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Carbon Disulfide | ND | 0.028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Carbon Tetrachloride | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Chlorobenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Chlorodibromomethane | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Chloroethane | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Chloroform | ND | 0.0056 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Chloromethane | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 2-Chlorotoluene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 4-Chlorotoluene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Dibromomethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1-Dichloroethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2-Dichloroethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1-Dichloroethylene | ND | 0.0056 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2-Dichloropropane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,3-Dichloropropane | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 2,2-Dichloropropane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1-Dichloropropene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Diethyl Ether | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,4-Dioxane | ND | 0.14 | mg/Kg dry | 1 | V-16 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Ethylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (1.5)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-38**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 2-Hexanone (MBK) | ND | 0.028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0056 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Methylene Chloride | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Naphthalene | ND | 0.014 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| n-Propylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Styrene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Tetrachloroethylene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Tetrahydrofuran | ND | 0.014 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Toluene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.014 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0056 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Trichloroethylene | 0.0050 | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| Vinyl Chloride | ND | 0.014 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| m+p Xylene | ND | 0.0056 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |
| o-Xylene | ND | 0.0028 | mg/Kg dry | 1 | | SW-846 8260C | 9/17/14 | 9/17/14 9:15 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 | | 9/17/14 9:15 |
| Toluene-d8 | 94.1 | 70-130 | | 9/17/14 9:15 |
| 4-Bromofluorobenzene | 88.3 | 70-130 | | 9/17/14 9:15 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (1.5)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-38**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 93.4 | | % Wt | 1 | | SM 2540G | 9/16/14 | 9/16/14 12:54 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (0-1)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-39**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.9 | | % Wt | 1 | | SM 2540G | 9/16/14 | 9/16/14 12:54 | MRL |

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

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0553

Date Received: 9/12/2014

**Field Sample #: SB-102-7 (0-1)**  Sampled: 9/12/2014 14:04

**Sample ID: 14I0553-39**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 5.3 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/17/14 | 9/17/14 18:36 | OP |

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

## Sample Extraction Data

**Prep Method: % Solids-SM 2540G**

| Lab Number [Field ID] | Batch | Date |
|---|---|---|
| 14I0553-01 [SB-102-1 (0-3)] | B104921 | 09/15/14 |
| 14I0553-02 [SB-102-1 (3)] | B104921 | 09/15/14 |
| 14I0553-03 [SB-102-1 (1-3)] | B104921 | 09/15/14 |
| 14I0553-04 [SB-190 (1)] | B104921 | 09/15/14 |
| 14I0553-05 [SB-102-10 (0-1)] | B104921 | 09/15/14 |
| 14I0553-06 [SB-102-9 (0-1)] | B104921 | 09/15/14 |
| 14I0553-07 [SB-102-11 (0-3)] | B104921 | 09/15/14 |
| 14I0553-08 [SB-102-11 (3)] | B104921 | 09/15/14 |
| 14I0553-09 [SB-102-11 (2-3)] | B104921 | 09/15/14 |
| 14I0553-10 [SB-102-4D (1-3)] | B104921 | 09/15/14 |
| 14I0553-11 [SB-102-3 (1-3)] | B104921 | 09/15/14 |
| 14I0553-12 [SB-102-4C (0-1)] | B104921 | 09/15/14 |
| 14I0553-13 [SB-102-4C (0-3)] | B104921 | 09/15/14 |
| 14I0553-14 [SB-102-4C (1.5)] | B104921 | 09/15/14 |
| 14I0553-15 [SB-194 (1)] | B104921 | 09/15/14 |
| 14I0553-16 [SB-102-4B (0-1)] | B104921 | 09/15/14 |
| 14I0553-17 [SB-102-4A (1-3)] | B104921 | 09/15/14 |
| 14I0553-18 [SB-102-12 (0.5-1.5)] | B104921 | 09/15/14 |
| 14I0553-19 [SB-102-12 (0-3)] | B104921 | 09/15/14 |
| 14I0553-20 [SB-102-12 (1.5)] | B104921 | 09/15/14 |
| 14I0553-21 [SB-102-8D/ MW-36 (5-7)] | B104921 | 09/15/14 |
| 14I0553-22 [SB-102-8A (1-3)] | B104921 | 09/15/14 |
| 14I0553-23 [SB-185 (6)] | B104921 | 09/15/14 |
| 14I0553-24 [SB-102-8C (1-3)] | B104921 | 09/15/14 |
| 14I0553-25 [SB-102-8B (1-3)] | B104921 | 09/15/14 |
| 14I0553-27 [SB-102-5C (0-3)] | B104921 | 09/15/14 |
| 14I0553-28 [SB-102-5C (1.5)] | B104921 | 09/15/14 |
| 14I0553-29 [SB-102-5C (1-3)] | B104921 | 09/15/14 |
| 14I0553-30 [SB-102-5B (1-3)] | B104921 | 09/15/14 |
| 14I0553-31 [SB-102-5D (5-7)] | B104921 | 09/15/14 |
| 14I0553-32 [SB-102-5A (5-7)] | B104921 | 09/15/14 |

**Prep Method: % Solids-SM 2540G**

| Lab Number [Field ID] | Batch | Date |
|---|---|---|
| 14I0553-35 [SB-195 (7.5)] | B104968 | 09/16/14 |
| 14I0553-37 [SB-102-7 (0-3)] | B104968 | 09/16/14 |
| 14I0553-38 [SB-102-7 (1.5)] | B104968 | 09/16/14 |
| 14I0553-39 [SB-102-7 (0-1)] | B104968 | 09/16/14 |

**SW-846 1030**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-01 [SB-102-1 (0-3)] | B105055 | 50.0 | 50.0 | 09/16/14 |
| 14I0553-07 [SB-102-11 (0-3)] | B105055 | 50.0 | 50.0 | 09/16/14 |
| 14I0553-13 [SB-102-4C (0-3)] | B105055 | 50.0 | 50.0 | 09/16/14 |
| 14I0553-19 [SB-102-12 (0-3)] | B105055 | 50.0 | 50.0 | 09/16/14 |
| 14I0553-27 [SB-102-5C (0-3)] | B105055 | 50.0 | 50.0 | 09/16/14 |
| 14I0553-37 [SB-102-7 (0-3)] | B105055 | 50.0 | 50.0 | 09/16/14 |

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

## Sample Extraction Data

**Prep Method: SW-846 3010A-SW-846 6010C** **Leachates were extracted on 9/16/2014 per SW-846 1311 in Batch B104978**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-03 [SB-102-1 (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-04 [SB-190 (1)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-05 [SB-102-10 (0-1)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-06 [SB-102-9 (0-1)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-09 [SB-102-11 (2-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-10 [SB-102-4D (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-11 [SB-102-3 (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-12 [SB-102-4C (0-1)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-15 [SB-194 (1)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-16 [SB-102-4B (0-1)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-17 [SB-102-4A (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-18 [SB-102-12 (0.5-1.5)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-21 [SB-102-8D/ MW-36 (5-7)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-22 [SB-102-8A (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-23 [SB-185 (6)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-24 [SB-102-8C (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-25 [SB-102-8B (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-29 [SB-102-5C (1-3)] | B105086 | 50.0 | 50.0 | 09/17/14 |

**Prep Method: SW-846 3010A-SW-846 6010C** **Leachates were extracted on 9/16/2014 per SW-846 1311 in Batch B104978**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-30 [SB-102-5B (1-3)] | B105087 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-31 [SB-102-5D (5-7)] | B105087 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-32 [SB-102-5A (5-7)] | B105087 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-35 [SB-195 (7.5)] | B105087 | 50.0 | 50.0 | 09/17/14 |
| 14I0553-39 [SB-102-7 (0-1)] | B105087 | 50.0 | 50.0 | 09/17/14 |

**Prep Method: SW-846 7470A Prep-SW-846 7470A** **Leachates were extracted on 9/16/2014 per SW-846 1311 in Batch B104978**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-11 [SB-102-3 (1-3)] | B105222 | 6.00 | 6.00 | 09/18/14 |

**Prep Method: SW-846 3546-SW-846 8015C**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-01 [SB-102-1 (0-3)] | B104852 | 30.1 | 1.00 | 09/14/14 |
| 14I0553-07 [SB-102-11 (0-3)] | B104852 | 30.1 | 1.00 | 09/14/14 |
| 14I0553-13 [SB-102-4C (0-3)] | B104852 | 30.3 | 1.00 | 09/14/14 |
| 14I0553-19 [SB-102-12 (0-3)] | B104852 | 30.1 | 1.00 | 09/14/14 |
| 14I0553-27 [SB-102-5C (0-3)] | B104852 | 30.1 | 1.00 | 09/14/14 |
| 14I0553-37 [SB-102-7 (0-3)] | B104852 | 30.2 | 1.00 | 09/14/14 |

**Prep Method: SW-846 5035-SW-846 8260C**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-02 [SB-102-1 (3)] | B105015 | 5.08 | 10.0 | 09/16/14 |
| 14I0553-08 [SB-102-11 (3)] | B105015 | 5.06 | 10.0 | 09/16/14 |
| 14I0553-14 [SB-102-4C (1.5)] | B105015 | 5.02 | 10.0 | 09/16/14 |
| 14I0553-20 [SB-102-12 (1.5)] | B105015 | 5.22 | 10.0 | 09/16/14 |

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## Sample Extraction Data

**Prep Method: SW-846 5035-SW-846 8260C**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-28 [SB-102-5C (1.5)] | B105110 | 5.53 | 10.0 | 09/17/14 |
| 14I0553-38 [SB-102-7 (1.5)] | B105110 | 3.84 | 10.0 | 09/17/14 |

**Prep Method: SW-846 5030B-SW-846 8260C** **Leachates were extracted on 9/17/2014 per SW-846 1311 in Batch B105078**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-26 [102EX1SB1B-1B (5-7)] | B105195 | 5.00 | 5.00 | 09/18/14 |
| 14I0553-33 [102EX1SB2A-1C1 (7-9)] | B105195 | 5.00 | 5.00 | 09/18/14 |
| 14I0553-34 [102EX1SB2A-2A (3-5)] | B105195 | 5.00 | 5.00 | 09/18/14 |
| 14I0553-36 [102EX1SB2A-2 (4-6)] | B105195 | 5.00 | 5.00 | 09/18/14 |

**SW-846 9014**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-01 [SB-102-1 (0-3)] | B105269 | 25.5 | 250 | 09/19/14 |
| 14I0553-07 [SB-102-11 (0-3)] | B105269 | 25.7 | 250 | 09/19/14 |
| 14I0553-13 [SB-102-4C (0-3)] | B105269 | 25.4 | 250 | 09/19/14 |
| 14I0553-19 [SB-102-12 (0-3)] | B105269 | 25.6 | 250 | 09/19/14 |
| 14I0553-27 [SB-102-5C (0-3)] | B105269 | 25.3 | 250 | 09/19/14 |
| 14I0553-37 [SB-102-7 (0-3)] | B105269 | 25.0 | 250 | 09/19/14 |

**SW-846 9030A**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0553-01 [SB-102-1 (0-3)] | B105308 | 25.5 | 250 | 09/19/14 |
| 14I0553-07 [SB-102-11 (0-3)] | B105308 | 25.7 | 250 | 09/19/14 |
| 14I0553-13 [SB-102-4C (0-3)] | B105308 | 25.4 | 250 | 09/19/14 |
| 14I0553-19 [SB-102-12 (0-3)] | B105308 | 25.6 | 250 | 09/19/14 |
| 14I0553-27 [SB-102-5C (0-3)] | B105308 | 25.3 | 250 | 09/19/14 |
| 14I0553-37 [SB-102-7 (0-3)] | B105308 | 25.0 | 250 | 09/19/14 |

**SW-846 9045C**

| Lab Number [Field ID] | Batch | Initial [g] | Date |
|---|---|---|---|
| 14I0553-01 [SB-102-1 (0-3)] | B104847 | 20.0 | 09/13/14 |
| 14I0553-07 [SB-102-11 (0-3)] | B104847 | 20.0 | 09/13/14 |
| 14I0553-13 [SB-102-4C (0-3)] | B104847 | 20.0 | 09/13/14 |
| 14I0553-19 [SB-102-12 (0-3)] | B104847 | 20.0 | 09/13/14 |
| 14I0553-27 [SB-102-5C (0-3)] | B104847 | 20.0 | 09/13/14 |
| 14I0553-37 [SB-102-7 (0-3)] | B104847 | 20.0 | 09/13/14 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105015 - SW-846 5035** | | | | | | | | | | |
| **Blank (B105015-BLK1)** | | | | Prepared & Analyzed: 09/16/14 | | | | | | |
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | V-05 |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Benzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromochloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromodichloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromoform | ND | 0.010 | mg/Kg wet | | | | | | | |
| Bromomethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | V-05 |
| n-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.020 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.010 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Diethyl Ether | ND | 0.010 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | R-05, V-16 |
| Ethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | V-05 |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Methylene Chloride | ND | 0.010 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.010 | mg/Kg wet | | | | | | | V-05 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105015 - SW-846 5035** | | | | | | | | | | | |
| **Blank (B105015-BLK1)** | | | | Prepared & Analyzed: 09/16/14 | | | | | | | |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.010 | mg/Kg wet | | | | | | | V-05 | |
| 1,2,4-Trichlorobenzene | ND | 0.0040 | mg/Kg wet | | | | | | | V-05 | |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Trichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 0.010 | mg/Kg wet | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Vinyl Chloride | ND | 0.010 | mg/Kg wet | | | | | | | L-04 | |
| m+p Xylene | ND | 0.0040 | mg/Kg wet | | | | | | | | |
| o-Xylene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0511* | | mg/Kg wet | 0.0500 | | 102 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0473* | | mg/Kg wet | 0.0500 | | 94.7 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0454* | | mg/Kg wet | 0.0500 | | 90.8 | 70-130 | | | | |
| **LCS (B105015-BS1)** | | | | Prepared & Analyzed: 09/16/14 | | | | | | | |
| Acetone | 0.147 | 0.10 | mg/Kg wet | 0.200 | | 73.3 | 40-160 | | | V-05 | † |
| tert-Amyl Methyl Ether (TAME) | 0.0173 | 0.0010 | mg/Kg wet | 0.0200 | | 86.6 | 70-130 | | | | |
| Benzene | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 91.0 | 70-130 | | | | |
| Bromobenzene | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.9 | 70-130 | | | | |
| Bromochloromethane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.1 | 70-130 | | | | |
| Bromodichloromethane | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | | | | |
| Bromoform | 0.0205 | 0.010 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| Bromomethane | 0.0127 | 0.010 | mg/Kg wet | 0.0200 | | 63.5 | 40-160 | | | L-14 | † |
| 2-Butanone (MEK) | 0.152 | 0.040 | mg/Kg wet | 0.200 | | 76.1 | 40-160 | | | V-05 | † |
| n-Butylbenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | | |
| sec-Butylbenzene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| tert-Butylbenzene | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0184 | 0.0010 | mg/Kg wet | 0.0200 | | 91.9 | 70-130 | | | | |
| Carbon Disulfide | 0.0177 | 0.020 | mg/Kg wet | 0.0200 | | 88.3 | 70-130 | | | | |
| Carbon Tetrachloride | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| Chlorobenzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.1 | 70-130 | | | | |
| Chlorodibromomethane | 0.0220 | 0.0010 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | | |
| Chloroethane | 0.0178 | 0.010 | mg/Kg wet | 0.0200 | | 89.2 | 70-130 | | | | |
| Chloroform | 0.0205 | 0.0040 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| Chloromethane | 0.0118 | 0.010 | mg/Kg wet | 0.0200 | | 58.8 | 40-160 | | | L-14 | † |
| 2-Chlorotoluene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | | |
| 4-Chlorotoluene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.5 | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 0.0205 | 0.0010 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| Dibromomethane | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | | |
| 1,2-Dichlorobenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | | |
| 1,3-Dichlorobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.4 | 70-130 | | | | |
| 1,4-Dichlorobenzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.2 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105015 - SW-846 5035** | | | | | | | | | | | | |
| **LCS (B105015-BS1)** | | | | Prepared & Analyzed: 09/16/14 | | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0100 | 0.010 | mg/Kg wet | 0.0200 | | 50.1 | | 40-160 | | | L-14 | † |
| 1,1-Dichloroethane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 92.9 | | 70-130 | | | | |
| 1,2-Dichloroethane | 0.0228 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 0.0191 | 0.0040 | mg/Kg wet | 0.0200 | | 95.3 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 94.8 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.1 | | 70-130 | | | | |
| 1,2-Dichloropropane | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.2 | | 70-130 | | | | |
| 1,3-Dichloropropane | 0.0194 | 0.0010 | mg/Kg wet | 0.0200 | | 96.9 | | 70-130 | | | | |
| 2,2-Dichloropropane | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.5 | | 70-130 | | | | |
| 1,1-Dichloropropene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.4 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 0.0196 | 0.0010 | mg/Kg wet | 0.0200 | | 98.0 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 0.0216 | 0.0010 | mg/Kg wet | 0.0200 | | 108 | | 70-130 | | | | |
| Diethyl Ether | 0.0196 | 0.010 | mg/Kg wet | 0.0200 | | 97.8 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 0.0174 | 0.0010 | mg/Kg wet | 0.0200 | | 86.9 | | 70-130 | | | | |
| 1,4-Dioxane | 0.169 | 0.10 | mg/Kg wet | 0.200 | | 84.4 | | 40-160 | | | R-05, V-16 | † |
| Ethylbenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | | | | |
| Hexachlorobutadiene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 0.152 | 0.020 | mg/Kg wet | 0.200 | | 75.9 | | 40-160 | | | V-05 | † |
| Isopropylbenzene (Cumene) | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0184 | 0.0040 | mg/Kg wet | 0.0200 | | 92.2 | | 70-130 | | | | |
| Methylene Chloride | 0.0154 | 0.010 | mg/Kg wet | 0.0200 | | 76.9 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.165 | 0.020 | mg/Kg wet | 0.200 | | 82.3 | | 40-160 | | | | † |
| Naphthalene | 0.0144 | 0.010 | mg/Kg wet | 0.0200 | | 71.9 | | 70-130 | | | V-05 | |
| n-Propylbenzene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | | | | |
| Styrene | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.5 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 0.0187 | 0.0010 | mg/Kg wet | 0.0200 | | 93.3 | | 70-130 | | | | |
| Tetrachloroethylene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | | | | |
| Tetrahydrofuran | 0.0165 | 0.010 | mg/Kg wet | 0.0200 | | 82.7 | | 70-130 | | | | |
| Toluene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.2 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 0.0148 | 0.010 | mg/Kg wet | 0.0200 | | 74.0 | | 70-130 | | | V-05 | |
| 1,2,4-Trichlorobenzene | 0.0148 | 0.0040 | mg/Kg wet | 0.0200 | | 73.9 | | 70-130 | | | V-05 | |
| 1,1,1-Trichloroethane | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.4 | | 70-130 | | | | |
| Trichloroethylene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 0.0199 | 0.010 | mg/Kg wet | 0.0200 | | 99.3 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 96.0 | | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.3 | | 70-130 | | | | |
| **Vinyl Chloride** | 0.0119 | 0.010 | mg/Kg wet | 0.0200 | | **59.3** | * | 70-130 | | | L-04 | |
| m+p Xylene | 0.0411 | 0.0040 | mg/Kg wet | 0.0400 | | 103 | | 70-130 | | | | |
| o-Xylene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0508* | | mg/Kg wet | 0.0500 | | 102 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0482* | | mg/Kg wet | 0.0500 | | 96.4 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0485* | | mg/Kg wet | 0.0500 | | 97.0 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105015 - SW-846 5035** | | | | | | | | | | | | | |
| **LCS Dup (B105015-BSD1)** | | | | Prepared & Analyzed: 09/16/14 | | | | | | | | | |
| Acetone | 0.148 | 0.10 | mg/Kg wet | 0.200 | | 73.9 | | 40-160 | 0.883 | | 20 | V-05 | † |
| tert-Amyl Methyl Ether (TAME) | 0.0166 | 0.0010 | mg/Kg wet | 0.0200 | | 83.2 | | 70-130 | 4.00 | | 20 | | |
| Benzene | 0.0177 | 0.0020 | mg/Kg wet | 0.0200 | | 88.7 | | 70-130 | 2.56 | | 20 | | |
| Bromobenzene | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 90.1 | | 70-130 | 4.13 | | 20 | | |
| Bromochloromethane | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.0 | | 70-130 | 1.19 | | 20 | | |
| Bromodichloromethane | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | 4.89 | | 20 | | |
| Bromoform | 0.0202 | 0.010 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 1.48 | | 20 | | |
| Bromomethane | 0.0153 | 0.010 | mg/Kg wet | 0.0200 | | 76.5 | | 40-160 | 18.6 | | 20 | | † |
| 2-Butanone (MEK) | 0.152 | 0.040 | mg/Kg wet | 0.200 | | 76.1 | | 40-160 | 0.0526 | | 20 | V-05 | † |
| n-Butylbenzene | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.7 | | 70-130 | 5.94 | | 20 | | |
| sec-Butylbenzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.3 | | 70-130 | 5.48 | | 20 | | |
| tert-Butylbenzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.6 | | 70-130 | 7.16 | | 20 | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 | | 88.4 | | 70-130 | 3.88 | | 20 | | |
| Carbon Disulfide | 0.0181 | 0.020 | mg/Kg wet | 0.0200 | | 90.4 | | 70-130 | 2.35 | | 20 | | |
| Carbon Tetrachloride | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 3.30 | | 20 | | |
| Chlorobenzene | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.0 | | 70-130 | 4.27 | | 20 | | |
| Chlorodibromomethane | 0.0206 | 0.0010 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | 6.48 | | 20 | | |
| Chloroethane | 0.0184 | 0.010 | mg/Kg wet | 0.0200 | | 92.2 | | 70-130 | 3.31 | | 20 | | |
| Chloroform | 0.0193 | 0.0040 | mg/Kg wet | 0.0200 | | 96.7 | | 70-130 | 5.82 | | 20 | | |
| Chloromethane | 0.0122 | 0.010 | mg/Kg wet | 0.0200 | | 60.8 | | 40-160 | 3.34 | | 20 | L-14 | † |
| 2-Chlorotoluene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.5 | | 70-130 | 5.97 | | 20 | | |
| 4-Chlorotoluene | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.3 | | 70-130 | 5.35 | | 20 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 92.8 | | 70-130 | 1.41 | | 20 | | |
| 1,2-Dibromoethane (EDB) | 0.0197 | 0.0010 | mg/Kg wet | 0.0200 | | 98.3 | | 70-130 | 4.38 | | 20 | | |
| Dibromomethane | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 5.28 | | 20 | | |
| 1,2-Dichlorobenzene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.4 | | 70-130 | 5.60 | | 20 | | |
| 1,3-Dichlorobenzene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.0 | | 70-130 | 4.67 | | 20 | | |
| 1,4-Dichlorobenzene | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.3 | | 70-130 | 6.19 | | 20 | | |
| Dichlorodifluoromethane (Freon 12) | 0.0102 | 0.010 | mg/Kg wet | 0.0200 | | 51.0 | | 40-160 | 1.78 | | 20 | L-14 | † |
| 1,1-Dichloroethane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.0 | | 70-130 | 1.18 | | 20 | | |
| 1,2-Dichloroethane | 0.0221 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | | 70-130 | 3.03 | | 20 | | |
| 1,1-Dichloroethylene | 0.0196 | 0.0040 | mg/Kg wet | 0.0200 | | 97.9 | | 70-130 | 2.69 | | 20 | | |
| cis-1,2-Dichloroethylene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.1 | | 70-130 | 2.89 | | 20 | | |
| trans-1,2-Dichloroethylene | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.0 | | 70-130 | 0.962 | | 20 | | |
| 1,2-Dichloropropane | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.6 | | 70-130 | 4.85 | | 20 | | |
| 1,3-Dichloropropane | 0.0184 | 0.0010 | mg/Kg wet | 0.0200 | | 91.8 | | 70-130 | 5.41 | | 20 | | |
| 2,2-Dichloropropane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.2 | | 70-130 | 1.39 | | 20 | | |
| 1,1-Dichloropropene | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.5 | | 70-130 | 3.09 | | 20 | | |
| cis-1,3-Dichloropropene | 0.0187 | 0.0010 | mg/Kg wet | 0.0200 | | 93.3 | | 70-130 | 4.91 | | 20 | | |
| trans-1,3-Dichloropropene | 0.0210 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | 2.44 | | 20 | | |
| Diethyl Ether | 0.0198 | 0.010 | mg/Kg wet | 0.0200 | | 99.0 | | 70-130 | 1.22 | | 20 | | |
| Diisopropyl Ether (DIPE) | 0.0168 | 0.0010 | mg/Kg wet | 0.0200 | | 84.1 | | 70-130 | 3.27 | | 20 | | |
| 1,4-Dioxane | 0.206 | 0.10 | mg/Kg wet | 0.200 | | 103 | | 40-160 | **20.1** | * | 20 | R-05, V-16 | † |
| Ethylbenzene | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 95.9 | | 70-130 | 4.98 | | 20 | | |
| Hexachlorobutadiene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 6.96 | | 20 | | |
| 2-Hexanone (MBK) | 0.150 | 0.020 | mg/Kg wet | 0.200 | | 75.1 | | 40-160 | 1.11 | | 20 | V-05 | † |
| Isopropylbenzene (Cumene) | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.2 | | 70-130 | 5.39 | | 20 | | |
| p-Isopropyltoluene (p-Cymene) | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.5 | | 70-130 | 7.07 | | 20 | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0184 | 0.0040 | mg/Kg wet | 0.0200 | | 92.1 | | 70-130 | 0.109 | | 20 | | |
| Methylene Chloride | 0.0157 | 0.010 | mg/Kg wet | 0.0200 | | 78.7 | | 70-130 | 2.31 | | 20 | | |
| 4-Methyl-2-pentanone (MIBK) | 0.161 | 0.020 | mg/Kg wet | 0.200 | | 80.6 | | 40-160 | 2.10 | | 20 | | † |
| **Naphthalene** | 0.0139 | 0.010 | mg/Kg wet | 0.0200 | | **69.5** | * | 70-130 | 3.39 | | 20 | L-07, V-05 | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105015 - SW-846 5035** | | | | | | | | | | | |
| **LCS Dup (B105015-BSD1)** | | | | Prepared & Analyzed: 09/16/14 | | | | | | | |
| n-Propylbenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 4.75 | 20 | |
| Styrene | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 88.8 | | 70-130 | 6.22 | 20 | |
| 1,1,1,2-Tetrachloroethane | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 2.79 | 20 | |
| 1,1,2,2-Tetrachloroethane | 0.0178 | 0.0010 | mg/Kg wet | 0.0200 | | 89.1 | | 70-130 | 4.61 | 20 | |
| Tetrachloroethylene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | 3.19 | 20 | |
| Tetrahydrofuran | 0.0175 | 0.010 | mg/Kg wet | 0.0200 | | 87.7 | | 70-130 | 5.87 | 20 | |
| Toluene | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 95.0 | | 70-130 | 2.29 | 20 | |
| **1,2,3-Trichlorobenzene** | 0.0139 | 0.010 | mg/Kg wet | 0.0200 | | **69.5** | * | 70-130 | 6.27 | 20 | L-07, V-05 |
| 1,2,4-Trichlorobenzene | 0.0144 | 0.0040 | mg/Kg wet | 0.0200 | | 71.9 | | 70-130 | 2.74 | 20 | V-05 |
| 1,1,1-Trichloroethane | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.3 | | 70-130 | 3.66 | 20 | |
| 1,1,2-Trichloroethane | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 94.9 | | 70-130 | 4.63 | 20 | |
| Trichloroethylene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | 0.760 | 20 | |
| Trichlorofluoromethane (Freon 11) | 0.0206 | 0.010 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | 3.46 | 20 | |
| 1,2,3-Trichloropropane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.2 | | 70-130 | 1.89 | 20 | |
| 1,2,4-Trimethylbenzene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.3 | | 70-130 | 7.03 | 20 | |
| 1,3,5-Trimethylbenzene | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.9 | | 70-130 | 5.59 | 20 | |
| **Vinyl Chloride** | 0.0120 | 0.010 | mg/Kg wet | 0.0200 | | **59.8** | * | 70-130 | 0.840 | 20 | L-04 |
| m+p Xylene | 0.0399 | 0.0040 | mg/Kg wet | 0.0400 | | 99.8 | | 70-130 | 2.87 | 20 | |
| o-Xylene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.4 | | 70-130 | 3.07 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0499* | | mg/Kg wet | 0.0500 | | 99.8 | | 70-130 | | | |
| Surrogate: Toluene-d8 | *0.0487* | | mg/Kg wet | 0.0500 | | 97.4 | | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0490* | | mg/Kg wet | 0.0500 | | 97.9 | | 70-130 | | | |
| **Batch B105110 - SW-846 5035** | | | | | | | | | | | |
| **Blank (B105110-BLK1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | | |
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | | V-05 |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0010 | mg/Kg wet | | | | | | | | |
| Benzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Bromobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Bromochloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Bromodichloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Bromoform | ND | 0.010 | mg/Kg wet | | | | | | | | |
| Bromomethane | ND | 0.010 | mg/Kg wet | | | | | | | | R-05 |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | | V-05 |
| n-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | | |
| Carbon Disulfide | ND | 0.020 | mg/Kg wet | | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | | |
| Chloroethane | ND | 0.010 | mg/Kg wet | | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | | |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105110 - SW-846 5035** | | | | | | | | | | |
| **Blank (B105110-BLK1)** | | | Prepared & Analyzed: 09/17/14 | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.010 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Diethyl Ether | ND | 0.010 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | V-16 |
| Ethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Methylene Chloride | ND | 0.010 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.010 | mg/Kg wet | | | | | | | V-05 |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | V-05 |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.010 | mg/Kg wet | | | | | | | V-05 |
| 1,2,4-Trichlorobenzene | ND | 0.0040 | mg/Kg wet | | | | | | | V-05 |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Trichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 0.010 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Vinyl Chloride | ND | 0.010 | mg/Kg wet | | | | | | | L-04 |
| m+p Xylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| o-Xylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0534* | | mg/Kg wet | 0.0500 | | 107 | 70-130 | | | |
| Surrogate: Toluene-d8 | *0.0473* | | mg/Kg wet | 0.0500 | | 94.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0464* | | mg/Kg wet | 0.0500 | | 92.8 | 70-130 | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105110 - SW-846 5035** | | | | | | | | | | | | |
| **LCS (B105110-BS1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | | | |
| Acetone | 0.185 | 0.10 | mg/Kg wet | 0.200 | | 92.3 | | 40-160 | | | V-05 | † |
| tert-Amyl Methyl Ether (TAME) | 0.0170 | 0.0010 | mg/Kg wet | 0.0200 | | 85.2 | | 70-130 | | | | |
| Benzene | 0.0176 | 0.0020 | mg/Kg wet | 0.0200 | | 87.8 | | 70-130 | | | | |
| Bromobenzene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.6 | | 70-130 | | | | |
| Bromochloromethane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 92.8 | | 70-130 | | | | |
| Bromodichloromethane | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | | 70-130 | | | | |
| Bromoform | 0.0209 | 0.010 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | | | | |
| Bromomethane | 0.0123 | 0.010 | mg/Kg wet | 0.0200 | | 61.3 | | 40-160 | | | L-14, R-05 | † |
| 2-Butanone (MEK) | 0.175 | 0.040 | mg/Kg wet | 0.200 | | 87.4 | | 40-160 | | | V-05 | † |
| n-Butylbenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.2 | | 70-130 | | | | |
| sec-Butylbenzene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | | | | |
| tert-Butylbenzene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 | | 88.7 | | 70-130 | | | | |
| Carbon Disulfide | 0.0174 | 0.020 | mg/Kg wet | 0.0200 | | 87.1 | | 70-130 | | | | |
| Carbon Tetrachloride | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | | | | |
| Chlorobenzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.6 | | 70-130 | | | | |
| Chlorodibromomethane | 0.0223 | 0.0010 | mg/Kg wet | 0.0200 | | 112 | | 70-130 | | | | |
| Chloroethane | 0.0177 | 0.010 | mg/Kg wet | 0.0200 | | 88.4 | | 70-130 | | | | |
| Chloroform | 0.0199 | 0.0040 | mg/Kg wet | 0.0200 | | 99.3 | | 70-130 | | | | |
| Chloromethane | 0.0116 | 0.010 | mg/Kg wet | 0.0200 | | 57.8 | | 40-160 | | | L-14 | † |
| 2-Chlorotoluene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | | | | |
| 4-Chlorotoluene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 95.2 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 0.0209 | 0.0010 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | | | | |
| Dibromomethane | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.2 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.4 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 0.00946 | 0.010 | mg/Kg wet | 0.0200 | | 47.3 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 91.8 | | 70-130 | | | | |
| 1,2-Dichloroethane | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 0.0191 | 0.0040 | mg/Kg wet | 0.0200 | | 95.4 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.2 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.3 | | 70-130 | | | | |
| 1,2-Dichloropropane | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.0 | | 70-130 | | | | |
| 1,3-Dichloropropane | 0.0193 | 0.0010 | mg/Kg wet | 0.0200 | | 96.5 | | 70-130 | | | | |
| 2,2-Dichloropropane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 92.8 | | 70-130 | | | | |
| 1,1-Dichloropropene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.0 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 0.0201 | 0.0010 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 0.0222 | 0.0010 | mg/Kg wet | 0.0200 | | 111 | | 70-130 | | | | |
| Diethyl Ether | 0.0192 | 0.010 | mg/Kg wet | 0.0200 | | 96.2 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 0.0168 | 0.0010 | mg/Kg wet | 0.0200 | | 83.9 | | 70-130 | | | | |
| 1,4-Dioxane | 0.195 | 0.10 | mg/Kg wet | 0.200 | | 97.6 | | 40-160 | | | V-16 | † |
| Ethylbenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | | | | |
| Hexachlorobutadiene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 0.171 | 0.020 | mg/Kg wet | 0.200 | | 85.7 | | 40-160 | | | | † |
| Isopropylbenzene (Cumene) | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0181 | 0.0040 | mg/Kg wet | 0.0200 | | 90.6 | | 70-130 | | | | |
| Methylene Chloride | 0.0153 | 0.010 | mg/Kg wet | 0.0200 | | 76.3 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.169 | 0.020 | mg/Kg wet | 0.200 | | 84.5 | | 40-160 | | | | † |
| **Naphthalene** | 0.0139 | 0.010 | mg/Kg wet | 0.0200 | | **69.5** | * | 70-130 | | | L-07, V-05 | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105110 - SW-846 5035** | | | | | | | | | | | | |
| **LCS (B105110-BS1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | | | |
| n-Propylbenzene | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | | 70-130 | | | | |
| Styrene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.6 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 0.0188 | 0.0010 | mg/Kg wet | 0.0200 | | 94.2 | | 70-130 | | | | |
| Tetrachloroethylene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | | | | |
| Tetrahydrofuran | 0.0180 | 0.010 | mg/Kg wet | 0.0200 | | 89.9 | | 70-130 | | | V-05 | |
| Toluene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.5 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 0.0145 | 0.010 | mg/Kg wet | 0.0200 | | 72.3 | | 70-130 | | | V-05 | |
| 1,2,4-Trichlorobenzene | 0.0148 | 0.0040 | mg/Kg wet | 0.0200 | | 74.1 | | 70-130 | | | V-05 | |
| 1,1,1-Trichloroethane | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.0 | | 70-130 | | | | |
| Trichloroethylene | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 0.0204 | 0.010 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.6 | | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.5 | | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | | | | |
| **Vinyl Chloride** | 0.0118 | 0.010 | mg/Kg wet | 0.0200 | | **59.1** | * | 70-130 | | | L-04 | |
| m+p Xylene | 0.0419 | 0.0040 | mg/Kg wet | 0.0400 | | 105 | | 70-130 | | | | |
| o-Xylene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0505* | | mg/Kg wet | 0.0500 | | 101 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0490* | | mg/Kg wet | 0.0500 | | 98.0 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0484* | | mg/Kg wet | 0.0500 | | 96.9 | | 70-130 | | | | |
| **LCS Dup (B105110-BSD1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | | | |
| Acetone | 0.162 | 0.10 | mg/Kg wet | 0.200 | | 81.0 | | 40-160 | 13.0 | 20 | V-05 | † |
| tert-Amyl Methyl Ether (TAME) | 0.0187 | 0.0010 | mg/Kg wet | 0.0200 | | 93.7 | | 70-130 | 9.50 | 20 | | |
| Benzene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.7 | | 70-130 | 6.50 | 20 | | |
| Bromobenzene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | 6.28 | 20 | | |
| Bromochloromethane | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.4 | | 70-130 | 5.86 | 20 | | |
| Bromodichloromethane | 0.0233 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | | 70-130 | 3.85 | 20 | | |
| Bromoform | 0.0223 | 0.010 | mg/Kg wet | 0.0200 | | 112 | | 70-130 | 6.85 | 20 | | |
| Bromomethane | 0.0152 | 0.010 | mg/Kg wet | 0.0200 | | 75.8 | | 40-160 | **21.2** | * 20 | R-05 | † |
| 2-Butanone (MEK) | 0.167 | 0.040 | mg/Kg wet | 0.200 | | 83.6 | | 40-160 | 4.34 | 20 | V-05 | † |
| n-Butylbenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | 4.24 | 20 | | |
| sec-Butylbenzene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | | 70-130 | 3.37 | 20 | | |
| tert-Butylbenzene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | | 70-130 | 3.50 | 20 | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0191 | 0.0010 | mg/Kg wet | 0.0200 | | 95.5 | | 70-130 | 7.38 | 20 | | |
| Carbon Disulfide | 0.0187 | 0.020 | mg/Kg wet | 0.0200 | | 93.5 | | 70-130 | 7.09 | 20 | | |
| Carbon Tetrachloride | 0.0222 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | | 70-130 | 8.36 | 20 | | |
| Chlorobenzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 6.32 | 20 | | |
| Chlorodibromomethane | 0.0239 | 0.0010 | mg/Kg wet | 0.0200 | | 119 | | 70-130 | 6.67 | 20 | | |
| Chloroethane | 0.0185 | 0.010 | mg/Kg wet | 0.0200 | | 92.4 | | 70-130 | 4.42 | 20 | | |
| Chloroform | 0.0214 | 0.0040 | mg/Kg wet | 0.0200 | | 107 | | 70-130 | 7.65 | 20 | | |
| Chloromethane | 0.0124 | 0.010 | mg/Kg wet | 0.0200 | | 61.8 | | 40-160 | 6.69 | 20 | L-14 | † |
| 2-Chlorotoluene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | | 70-130 | 4.48 | 20 | | |
| 4-Chlorotoluene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | | 70-130 | 5.58 | 20 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 10.4 | 20 | | |
| 1,2-Dibromoethane (EDB) | 0.0219 | 0.0010 | mg/Kg wet | 0.0200 | | 109 | | 70-130 | 4.68 | 20 | | |
| Dibromomethane | 0.0230 | 0.0020 | mg/Kg wet | 0.0200 | | 115 | | 70-130 | 7.67 | 20 | | |
| 1,2-Dichlorobenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | 3.05 | 20 | | |
| 1,3-Dichlorobenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 3.64 | 20 | | |
| 1,4-Dichlorobenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.2 | | 70-130 | 2.86 | 20 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105110 - SW-846 5035** | | | | | | | | | | | | |
| **LCS Dup (B105110-BSD1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | 0.00986 | 0.010 | mg/Kg wet | 0.0200 | | 49.3 | | 40-160 | 4.14 | 20 | | † |
| 1,1-Dichloroethane | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | 8.65 | 20 | | |
| 1,2-Dichloroethane | 0.0243 | 0.0020 | mg/Kg wet | 0.0200 | | 122 | | 70-130 | 8.14 | 20 | | |
| 1,1-Dichloroethylene | 0.0202 | 0.0040 | mg/Kg wet | 0.0200 | | 101 | | 70-130 | 5.60 | 20 | | |
| cis-1,2-Dichloroethylene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.1 | | 70-130 | 6.20 | 20 | | |
| trans-1,2-Dichloroethylene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | 7.43 | 20 | | |
| 1,2-Dichloropropane | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | | 70-130 | 2.12 | 20 | | |
| 1,3-Dichloropropane | 0.0209 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | | 70-130 | 8.06 | 20 | | |
| 2,2-Dichloropropane | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | | 70-130 | 5.25 | 20 | | |
| 1,1-Dichloropropene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.2 | | 70-130 | 5.50 | 20 | | |
| cis-1,3-Dichloropropene | 0.0205 | 0.0010 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | 2.27 | 20 | | |
| trans-1,3-Dichloropropene | 0.0232 | 0.0010 | mg/Kg wet | 0.0200 | | 116 | | 70-130 | 4.49 | 20 | | |
| Diethyl Ether | 0.0209 | 0.010 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | 8.18 | 20 | | |
| Diisopropyl Ether (DIPE) | 0.0183 | 0.0010 | mg/Kg wet | 0.0200 | | 91.3 | | 70-130 | 8.45 | 20 | | |
| 1,4-Dioxane | 0.197 | 0.10 | mg/Kg wet | 0.200 | | 98.5 | | 40-160 | 0.928 | 20 | V-16 | † |
| Ethylbenzene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 4.75 | 20 | | |
| Hexachlorobutadiene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | | 70-130 | 3.41 | 20 | | |
| 2-Hexanone (MBK) | 0.170 | 0.020 | mg/Kg wet | 0.200 | | 85.1 | | 40-160 | 0.785 | 20 | | † |
| Isopropylbenzene (Cumene) | 0.0221 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | | 70-130 | 4.44 | 20 | | |
| p-Isopropyltoluene (p-Cymene) | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | 3.90 | 20 | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0197 | 0.0040 | mg/Kg wet | 0.0200 | | 98.5 | | 70-130 | 8.36 | 20 | | |
| Methylene Chloride | 0.0166 | 0.010 | mg/Kg wet | 0.0200 | | 82.9 | | 70-130 | 8.29 | 20 | | |
| 4-Methyl-2-pentanone (MIBK) | 0.187 | 0.020 | mg/Kg wet | 0.200 | | 93.5 | | 40-160 | 10.1 | 20 | | † |
| Naphthalene | 0.0152 | 0.010 | mg/Kg wet | 0.0200 | | 76.2 | | 70-130 | 9.20 | 20 | V-05 | |
| n-Propylbenzene | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | | 70-130 | 4.40 | 20 | | |
| Styrene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.7 | | 70-130 | 6.31 | 20 | | |
| 1,1,1,2-Tetrachloroethane | 0.0241 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | | 70-130 | 7.50 | 20 | | |
| 1,1,2,2-Tetrachloroethane | 0.0205 | 0.0010 | mg/Kg wet | 0.0200 | | 103 | | 70-130 | 8.54 | 20 | | |
| Tetrachloroethylene | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | | 70-130 | 4.87 | 20 | | |
| Tetrahydrofuran | 0.0189 | 0.010 | mg/Kg wet | 0.0200 | | 94.5 | | 70-130 | 4.99 | 20 | V-05 | |
| Toluene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | | 70-130 | 3.94 | 20 | | |
| 1,2,3-Trichlorobenzene | 0.0160 | 0.010 | mg/Kg wet | 0.0200 | | 80.1 | | 70-130 | 10.2 | 20 | V-05 | |
| 1,2,4-Trichlorobenzene | 0.0160 | 0.0040 | mg/Kg wet | 0.0200 | | 80.0 | | 70-130 | 7.66 | 20 | V-05 | |
| 1,1,1-Trichloroethane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | | 70-130 | 5.74 | 20 | | |
| 1,1,2-Trichloroethane | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 6.45 | 20 | | |
| Trichloroethylene | 0.0225 | 0.0020 | mg/Kg wet | 0.0200 | | 113 | | 70-130 | 5.28 | 20 | | |
| Trichlorofluoromethane (Freon 11) | 0.0212 | 0.010 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 3.95 | 20 | | |
| 1,2,3-Trichloropropane | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | | 70-130 | 12.8 | 20 | | |
| 1,2,4-Trimethylbenzene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | | 70-130 | 3.98 | 20 | | |
| 1,3,5-Trimethylbenzene | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | | 70-130 | 5.07 | 20 | | |
| **Vinyl Chloride** | 0.0122 | 0.010 | mg/Kg wet | 0.0200 | | **60.9** | * | 70-130 | 3.00 | 20 | L-04 | |
| m+p Xylene | 0.0439 | 0.0040 | mg/Kg wet | 0.0400 | | 110 | | 70-130 | 4.71 | 20 | | |
| o-Xylene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | | 70-130 | 4.52 | 20 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0513* | | mg/Kg wet | 0.0500 | | 103 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0486* | | mg/Kg wet | 0.0500 | | 97.1 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0493* | | mg/Kg wet | 0.0500 | | 98.6 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B104852 - SW-846 3546** | | | | | | | | | | |
| **Blank (B104852-BLK1)** | | | | Prepared: 09/14/14 Analyzed: 09/16/14 | | | | | | |
| Diesel Range Organics | ND | 8.3 | mg/Kg wet | | | | | | | |
| Surrogate: o-Terphenyl | *2.83* | | mg/Kg wet | 3.37 | | 84.1 | 40-140 | | | |
| **LCS (B104852-BS1)** | | | | Prepared: 09/14/14 Analyzed: 09/16/14 | | | | | | |
| Diesel Range Organics | 24.0 | 8.3 | mg/Kg wet | 33.3 | | 71.9 | 40-140 | | | |
| Surrogate: o-Terphenyl | *2.94* | | mg/Kg wet | 3.37 | | 87.3 | 40-140 | | | |
| **LCS Dup (B104852-BSD1)** | | | | Prepared: 09/14/14 Analyzed: 09/16/14 | | | | | | |
| Diesel Range Organics | 29.4 | 8.3 | mg/Kg wet | 33.3 | | 88.3 | 40-140 | 20.5 | | |
| Surrogate: o-Terphenyl | *3.19* | | mg/Kg wet | 3.37 | | 94.7 | 40-140 | | | |
| **Matrix Spike (B104852-MS1)** | **Source: 14I0553-01** | | | Prepared: 09/14/14 Analyzed: 09/16/14 | | | | | | |
| Diesel Range Organics | 43.0 | 8.9 | mg/Kg dry | 35.5 | 12.0 | 87.2 | 40-140 | | | |
| Surrogate: o-Terphenyl | *3.19* | | mg/Kg dry | 3.58 | | 89.0 | 40-140 | | | |
| **Matrix Spike Dup (B104852-MSD1)** | **Source: 14I0553-01** | | | Prepared: 09/14/14 Analyzed: 09/16/14 | | | | | | |
| Diesel Range Organics | 39.5 | 8.9 | mg/Kg dry | 35.5 | 12.0 | 77.5 | 40-140 | 8.31 | 30 | |
| Surrogate: o-Terphenyl | *3.01* | | mg/Kg dry | 3.58 | | 84.1 | 40-140 | | | |

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**QUALITY CONTROL**

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B104847 - SW-846 9045C** | | | | | | | | | | |
| **LCS (B104847-BS1)** | | | | Prepared & Analyzed: 09/13/14 | | | | | | |
| pH | 6.01 | | pH Units | 6.00 | | 100 | 98.5-102 | | | |
| **LCS (B104847-BS2)** | | | | Prepared & Analyzed: 09/13/14 | | | | | | |
| pH | 6.00 | | pH Units | 6.00 | | 100 | 98.5-102 | | | |
| **Batch B104921 - % Solids** | | | | | | | | | | |
| **Duplicate (B104921-DUP5)** | **Source: 14I0553-06** | | | Prepared: 09/15/14 Analyzed: 09/16/14 | | | | | | |
| % Solids | 90.2 | | % Wt | | 89.9 | | | 0.333 | 20 | |
| **Duplicate (B104921-DUP7)** | **Source: 14I0553-30** | | | Prepared: 09/15/14 Analyzed: 09/16/14 | | | | | | |
| % Solids | 93.2 | | % Wt | | 94.0 | | | 0.855 | 20 | |
| **Batch B104968 - % Solids** | | | | | | | | | | |
| **Duplicate (B104968-DUP1)** | **Source: 14I0553-39** | | | Prepared & Analyzed: 09/16/14 | | | | | | |
| % Solids | 94.3 | | % Wt | | 94.9 | | | 0.634 | 20 | |
| **Batch B105269 - SW-846 9014** | | | | | | | | | | |
| **Blank (B105269-BLK1)** | | | | Prepared & Analyzed: 09/19/14 | | | | | | |
| Reactive Cyanide | ND | 0.40 | mg/Kg | | | | | | | |
| **LCS (B105269-BS1)** | | | | Prepared & Analyzed: 09/19/14 | | | | | | |
| Reactive Cyanide | 9.4 | 0.40 | mg/Kg | 10.0 | | 94.4 | 81.3-113 | | | |
| **Batch B105308 - SW-846 9030A** | | | | | | | | | | |
| **Blank (B105308-BLK1)** | | | | Prepared & Analyzed: 09/19/14 | | | | | | |
| Reactive Sulfide | ND | 2.0 | mg/Kg | | | | | | | |
| **LCS (B105308-BS1)** | | | | Prepared & Analyzed: 09/19/14 | | | | | | |
| Reactive Sulfide | 14 | 2.0 | mg/Kg | 14.8 | | 94.6 | 24.3-135 | | | |

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**QUALITY CONTROL**

**TCLP - Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105195 - SW-846 5030B** | | | | | | | | | | | | |
| **Blank (B105195-BLK1)** | | | | Prepared & Analyzed: 09/18/14 | | | | | | | | |
| Benzene | ND | 0.010 | mg/L | | | | | | | | | |
| 2-Butanone (MEK) | ND | 0.20 | mg/L | | | | | | | | | |
| Carbon Tetrachloride | ND | 0.050 | mg/L | | | | | | | | | |
| Chlorobenzene | ND | 0.010 | mg/L | | | | | | | | | |
| Chloroform | ND | 0.020 | mg/L | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.010 | mg/L | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.010 | mg/L | | | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.010 | mg/L | | | | | | | | | |
| Tetrachloroethylene | ND | 0.010 | mg/L | | | | | | | | | |
| Trichloroethylene | ND | 0.010 | mg/L | | | | | | | | | |
| Vinyl Chloride | ND | 0.020 | mg/L | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0252* | | mg/L | 0.0250 | | 101 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0248* | | mg/L | 0.0250 | | 99.4 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0242* | | mg/L | 0.0250 | | 96.6 | | 70-130 | | | | |
| **LCS (B105195-BS1)** | | | | Prepared & Analyzed: 09/18/14 | | | | | | | | |
| Benzene | 0.0112 | 0.0010 | mg/L | 0.0100 | | 112 | | 70-130 | | | | |
| **2-Butanone (MEK)** | 0.169 | 0.020 | mg/L | 0.100 | | **169** | * | 40-160 | | | L-07 | † |
| Carbon Tetrachloride | 0.0107 | 0.0050 | mg/L | 0.0100 | | 107 | | 70-130 | | | | |
| Chlorobenzene | 0.0116 | 0.0010 | mg/L | 0.0100 | | 116 | | 70-130 | | | | |
| Chloroform | 0.0115 | 0.0020 | mg/L | 0.0100 | | 115 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 0.0115 | 0.0010 | mg/L | 0.0100 | | 115 | | 70-130 | | | | |
| 1,2-Dichloroethane | 0.0114 | 0.0010 | mg/L | 0.0100 | | 114 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 0.0115 | 0.0010 | mg/L | 0.0100 | | 115 | | 70-130 | | | | |
| Tetrachloroethylene | 0.0116 | 0.0010 | mg/L | 0.0100 | | 116 | | 70-130 | | | | |
| Trichloroethylene | 0.0119 | 0.0010 | mg/L | 0.0100 | | 119 | | 70-130 | | | | |
| Vinyl Chloride | 0.00764 | 0.0020 | mg/L | 0.0100 | | 76.4 | | 40-160 | | | | † |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0250* | | mg/L | 0.0250 | | 99.9 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0249* | | mg/L | 0.0250 | | 99.6 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0247* | | mg/L | 0.0250 | | 98.6 | | 70-130 | | | | |
| **LCS Dup (B105195-BSD1)** | | | | Prepared & Analyzed: 09/18/14 | | | | | | | | |
| Benzene | 0.0108 | 0.0010 | mg/L | 0.0100 | | 108 | | 70-130 | 3.81 | 25 | | |
| 2-Butanone (MEK) | 0.159 | 0.020 | mg/L | 0.100 | | 159 | | 40-160 | 6.09 | 25 | | † |
| Carbon Tetrachloride | 0.0105 | 0.0050 | mg/L | 0.0100 | | 105 | | 70-130 | 1.88 | 25 | | |
| Chlorobenzene | 0.0112 | 0.0010 | mg/L | 0.0100 | | 112 | | 70-130 | 3.50 | 25 | | |
| Chloroform | 0.0110 | 0.0020 | mg/L | 0.0100 | | 110 | | 70-130 | 4.27 | 25 | | |
| 1,4-Dichlorobenzene | 0.0109 | 0.0010 | mg/L | 0.0100 | | 109 | | 70-130 | 5.34 | 25 | | |
| 1,2-Dichloroethane | 0.0108 | 0.0010 | mg/L | 0.0100 | | 108 | | 70-130 | 4.50 | 25 | | |
| 1,1-Dichloroethylene | 0.0111 | 0.0010 | mg/L | 0.0100 | | 111 | | 70-130 | 3.98 | 25 | | |
| Tetrachloroethylene | 0.0112 | 0.0010 | mg/L | 0.0100 | | 112 | | 70-130 | 2.90 | 25 | | |
| Trichloroethylene | 0.0114 | 0.0010 | mg/L | 0.0100 | | 114 | | 70-130 | 4.12 | 25 | | |
| Vinyl Chloride | 0.00736 | 0.0020 | mg/L | 0.0100 | | 73.6 | | 40-160 | 3.73 | 25 | | † |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0247* | | mg/L | 0.0250 | | 99.0 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0250* | | mg/L | 0.0250 | | 100 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0248* | | mg/L | 0.0250 | | 99.4 | | 70-130 | | | | |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**QUALITY CONTROL**

**TCLP - Metals Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105086 - SW-846 3010A** | | | | | | | | | | |
| **Blank (B105086-BLK1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Lead | ND | 0.010 | mg/L | | | | | | | |
| **LCS (B105086-BS1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Lead | 0.485 | 0.010 | mg/L | 0.500 | | 96.9 | 80-120 | | | |
| **LCS Dup (B105086-BSD1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Lead | 0.488 | 0.010 | mg/L | 0.500 | | 97.7 | 80-120 | 0.789 | 20 | |
| **Batch B105087 - SW-846 3010A** | | | | | | | | | | |
| **Blank (B105087-BLK1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Cadmium | ND | 0.0040 | mg/L | | | | | | | |
| Lead | ND | 0.010 | mg/L | | | | | | | |
| **LCS (B105087-BS1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Cadmium | 0.543 | 0.0040 | mg/L | 0.500 | | 109 | 80-120 | | | |
| Lead | 0.481 | 0.010 | mg/L | 0.500 | | 96.1 | 80-120 | | | |
| **LCS Dup (B105087-BSD1)** | | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Cadmium | 0.551 | 0.0040 | mg/L | 0.500 | | 110 | 80-120 | 1.47 | 20 | |
| Lead | 0.494 | 0.010 | mg/L | 0.500 | | 98.8 | 80-120 | 2.70 | 20 | |
| **Matrix Spike (B105087-MS1)** | **Source: 14I0553-31** | | | Prepared & Analyzed: 09/17/14 | | | | | | |
| Cadmium | 0.558 | 0.0040 | mg/L | 0.500 | 0.00805 | 110 | 75-125 | | | |
| Lead | 0.927 | 0.010 | mg/L | 0.500 | 0.421 | 101 | 75-125 | | | |
| **Batch B105222 - SW-846 7470A Prep** | | | | | | | | | | |
| **Blank (B105222-BLK1)** | | | | Prepared: 09/18/14 Analyzed: 09/19/14 | | | | | | |
| Mercury | ND | 0.00010 | mg/L | | | | | | | |
| **LCS (B105222-BS1)** | | | | Prepared: 09/18/14 Analyzed: 09/19/14 | | | | | | |
| Mercury | 0.00203 | 0.00010 | mg/L | 0.00200 | | 101 | 80-120 | | | |
| **LCS Dup (B105222-BSD1)** | | | | Prepared: 09/18/14 Analyzed: 09/19/14 | | | | | | |
| Mercury | 0.00207 | 0.00010 | mg/L | 0.00200 | | 104 | 80-120 | 2.34 | 20 | |
| **Matrix Spike (B105222-MS1)** | **Source: 14I0553-11** | | | Prepared: 09/18/14 Analyzed: 09/19/14 | | | | | | |
| Mercury | 0.00216 | 0.00010 | mg/L | 0.00200 | 0.0000523 | 105 | 75-125 | | | |

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

**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 |
| | 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. |
| H-01 | Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time. |
| L-04 | Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side. |
| L-07 | Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria. |
| L-14 | Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria. |
| R-05 | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound. |
| V-05 | Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. |
| V-16 | Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 1030 in Soil*** | |
| Ignitability | NY,NH,CT,NC,ME,VA,NJ |
| ***SW-846 6010C in Water*** | |
| Cadmium | NY,CT,ME,NC,NH,VA,NJ |
| Lead | NY,CT,ME,NC,NH,VA,NJ |
| ***SW-846 7470A in Water*** | |
| Mercury | CT,ME,NC,NH,NY,VA,NJ |
| ***SW-846 8015C in Soil*** | |
| Diesel Range Organics | NY,VA,NH,NJ |
| ***SW-846 8260C in Soil*** | |
| Acetone | ME,NY,VA,NJ |
| Acetone | CT,NH,NY,ME |
| Benzene | ME,NY,CT,NC,VA,NJ |
| Benzene | CT,NH,NY,ME |
| Bromobenzene | ME,NY,VA,NJ |
| Bromobenzene | NH,NY,ME |
| Bromochloromethane | NH,NY,ME |
| Bromochloromethane | ME,NY,VA,NJ |
| Bromodichloromethane | ME,NY,VA,NJ |
| Bromodichloromethane | CT,NH,NY,ME |
| Bromoform | ME,NY,VA,NJ |
| Bromoform | CT,NH,NY,ME |
| Bromomethane | CT,NH,NY,ME |
| Bromomethane | ME,NY,VA,NJ |
| 2-Butanone (MEK) | ME,NY,CT,NC,VA,NJ |
| 2-Butanone (MEK) | CT,NH,NY,ME |
| n-Butylbenzene | CT,NH,NY,ME |
| n-Butylbenzene | ME,NY,VA,NJ |
| sec-Butylbenzene | ME,NY,VA,NJ |
| sec-Butylbenzene | CT,NH,NY,ME |
| tert-Butylbenzene | CT,NH,NY,ME |
| tert-Butylbenzene | ME,NY,VA,NJ |
| Carbon Disulfide | CT,NH,NY,ME |
| Carbon Disulfide | ME,VA |
| Carbon Tetrachloride | ME,NY,CT,NC,VA,NJ |
| Carbon Tetrachloride | CT,NH,NY,ME |
| Chlorobenzene | CT,NH,NY,ME |
| Chlorobenzene | ME,NY,CT,NC,VA,NJ |
| Chlorodibromomethane | CT,NH,NY,ME |
| Chlorodibromomethane | ME,NY,VA,NJ |
| Chloroethane | CT,NH,NY,ME |
| Chloroethane | ME,NY,VA,NJ |
| Chloroform | ME,NY,CT,NC,VA,NJ |
| Chloroform | CT,NH,NY,ME |
| Chloromethane | CT,NH,NY,ME |
| Chloromethane | ME,NY,VA,NJ |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Soil*** | |
| 2-Chlorotoluene | ME,NY,VA,NJ |
| 2-Chlorotoluene | CT,NH,NY,ME |
| 4-Chlorotoluene | CT,NH,NY,ME |
| 4-Chlorotoluene | ME,NY,VA,NJ |
| Dibromomethane | ME,NY,VA,NJ |
| Dibromomethane | NH,NY,ME |
| 1,2-Dichlorobenzene | CT,NH,NY,ME |
| 1,2-Dichlorobenzene | ME,NY,VA,NJ |
| 1,3-Dichlorobenzene | CT,NH,NY,ME |
| 1,3-Dichlorobenzene | ME,NY,VA,NJ |
| 1,4-Dichlorobenzene | CT,NH,NY,ME |
| 1,4-Dichlorobenzene | ME,NY,CT,NC,VA,NJ |
| Dichlorodifluoromethane (Freon 12) | NY,ME |
| Dichlorodifluoromethane (Freon 12) | ME,NY,VA,NJ |
| 1,1-Dichloroethane | ME,NY,VA,NJ |
| 1,1-Dichloroethane | CT,NH,NY,ME |
| 1,2-Dichloroethane | CT,NH,NY,ME |
| 1,2-Dichloroethane | ME,NY,CT,NC,VA,NJ |
| 1,1-Dichloroethylene | ME,NY,CT,NC,VA,NJ |
| 1,1-Dichloroethylene | CT,NH,NY,ME |
| cis-1,2-Dichloroethylene | CT,NH,NY,ME |
| cis-1,2-Dichloroethylene | ME,NY,VA,NJ |
| trans-1,2-Dichloroethylene | CT,NH,NY,ME |
| trans-1,2-Dichloroethylene | ME,NY,VA,NJ |
| 1,2-Dichloropropane | ME,NY,VA,NJ |
| 1,2-Dichloropropane | CT,NH,NY,ME |
| 1,3-Dichloropropane | ME,NY,VA,NJ |
| 1,3-Dichloropropane | NH,NY,ME |
| 2,2-Dichloropropane | ME,NY,VA,NJ |
| 2,2-Dichloropropane | NH,NY,ME |
| 1,1-Dichloropropene | NH,NY,ME |
| 1,1-Dichloropropene | ME,NY,VA,NJ |
| cis-1,3-Dichloropropene | CT,NH,NY,ME |
| cis-1,3-Dichloropropene | ME,NY,VA,NJ |
| trans-1,3-Dichloropropene | ME,NY,VA,NJ |
| trans-1,3-Dichloropropene | CT,NH,NY,ME |
| Ethylbenzene | ME,NY,VA,NJ |
| Ethylbenzene | CT,NH,NY,ME |
| Hexachlorobutadiene | ME,NY,VA,NJ |
| Hexachlorobutadiene | NH,NY,ME |
| 2-Hexanone (MBK) | CT,NH,NY,ME |
| 2-Hexanone (MBK) | ME,NY,VA,NJ |
| Isopropylbenzene (Cumene) | ME,NY,VA,NJ |
| Isopropylbenzene (Cumene) | CT,NH,NY,ME |
| p-Isopropyltoluene (p-Cymene) | NH,NY |
| p-Isopropyltoluene (p-Cymene) | NY,NJ |
| Methyl tert-Butyl Ether (MTBE) | NY |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Soil*** | |
| Methyl tert-Butyl Ether (MTBE) | NY,VA,NJ |
| Methylene Chloride | CT,NH,NY,ME |
| Methylene Chloride | ME,NY,VA,NJ |
| 4-Methyl-2-pentanone (MIBK) | NY,VA,NJ |
| 4-Methyl-2-pentanone (MIBK) | CT,NH,NY |
| Naphthalene | NH,NY,ME |
| Naphthalene | ME,NY,VA,NJ |
| n-Propylbenzene | NY,NJ |
| n-Propylbenzene | NH,NY |
| Styrene | ME,NY,VA,NJ |
| Styrene | CT,NH,NY,ME |
| 1,1,1,2-Tetrachloroethane | ME,NY,VA,NJ |
| 1,1,1,2-Tetrachloroethane | CT,NH,NY,ME |
| 1,1,2,2-Tetrachloroethane | CT,NH,NY,ME |
| 1,1,2,2-Tetrachloroethane | ME,NY,VA,NJ |
| Tetrachloroethylene | ME,NY,CT,NC,VA,NJ |
| Tetrachloroethylene | CT,NH,NY,ME |
| Toluene | CT,NH,NY,ME |
| Toluene | ME,NY,VA,NJ |
| 1,2,4-Trichlorobenzene | NH,NY,ME |
| 1,2,4-Trichlorobenzene | ME,NY,VA,NJ |
| 1,1,1-Trichloroethane | ME,NY,VA,NJ |
| 1,1,1-Trichloroethane | CT,NH,NY,ME |
| 1,1,2-Trichloroethane | ME,NY,VA,NJ |
| 1,1,2-Trichloroethane | CT,NH,NY,ME |
| Trichloroethylene | ME,NY,CT,NC,VA,NJ |
| Trichloroethylene | CT,NH,NY,ME |
| Trichlorofluoromethane (Freon 11) | NY,VA,NJ |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,ME |
| 1,2,3-Trichloropropane | ME,NY,VA,NJ |
| 1,2,3-Trichloropropane | NH,NY,ME |
| 1,2,4-Trimethylbenzene | ME,NY,VA,NJ |
| 1,2,4-Trimethylbenzene | CT,NH,NY,ME |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME |
| 1,3,5-Trimethylbenzene | ME,NY,VA,NJ |
| Vinyl Chloride | CT,NH,NY,ME |
| Vinyl Chloride | ME,NY,CT,NC,VA,NJ |
| m+p Xylene | CT,NH,NY,ME |
| m+p Xylene | ME,VA |
| o-Xylene | CT,NH,NY,ME |
| o-Xylene | ME,VA |
| ***SW-846 8270D in Soil*** | |
| 1,2-Dichlorobenzene | NY,NH |
| 1,3-Dichlorobenzene | NY,NH |
| 1,4-Dichlorobenzene | NY,NH |
| Hexachlorobutadiene | CT,NY,NH |

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

## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8270D in Soil*** | |
| Naphthalene | CT,NY,NH |
| 1,2,4-Trichlorobenzene | CT,NY,NH |

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2016 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2015 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2015 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2015 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2015 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2014 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2014 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2015 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2015 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2015 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2015 |
| ME | State of Maine | 2011028 | 06/9/2015 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2014 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2015 |

Table of Contents

# CHAIN OF CUSTODY RECORD

14IO553

Rev 04.05.12

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 4

Company Name: TRC Environmental
Address: 650 Suffolk St. Lowell, MA 01854
Attention: Matt Oliveira
Project Location: 101/102 Greenwood St. New Bedford, MA
Sampled By: ACT

Telephone: 978-970-5600
Project # 115058
Client PO# 72798

**DATA DELIVERY** (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: moliveira@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | *** Container Code | ANALYSIS REQUESTED: TPH-DRO (8015C) | VOC | SVOC | Ignitability/pH | Reactive Cyanide & Sulfide | TCLP Lead | TCLP Mercury | TCLP VOC | TCLP Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SB-102-1 (0-3') | 9/12/14 | 0853 | X | X | S | U | 1 | I | A | X | X | EH | X | X | | | | |
| | SB-102-1 (3') | | 0853 | AS 9/12/14 | X | S | U | 1 | I | V | | X | | | | | | | |
| | SB-102-1 (1-3') | | 0853 | X | X | S | U | 1 | I | A | | | | | | X | | | |
| | SB-190 (1') | | 0859 | X | X | S | U | 1 | I | A | | | | | | X | | | |
| | SB-102-10 (0-1') | | 0904 | | X | S | U | 1 | I | A | | | | | | X | | | |
| | SB-102-9 (0-1') | | 0908 | | X | S | U | 1 | I | A | | | | | | X | | | |
| | SB-102-11 (0-3') | | 0924 | | X | S | U | 1 | I | A | X | | EH | X | X | | | | |
| | SB-102-11 (3') | | 0924 | | X | S | U | 1 | I | A | | X | | | | | | | |
| | SB-102-11 (2-3') | | 0924 | | X | S | U | 1 | I | A | | | | | | X | | | |
| | SB-102-40 (1-3') | | 0938 | | X | S | U | 1 | I | A | | | | | | X | | | |

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfi
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

| Relinquished by: (signature) | Date/Time: |
|---|---|
| [signature] 9/12/14 | 1430 |
| Received by: (signature) [signature] 9/12/14 | 1430 |
| Relinquished by: (signature) [signature] 9/12/14 | 1700 |
| Received by: (signature) [signature] 5.2° 9/12/14 | 17:00 |

**Turnaround** ††
☐ 7-Day
☐ 10-Day
☒ Other 5-day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

**Detection Limit Requirements**
Massachusetts: S-1/GW-2/GW-3 RCS-1
Connecticut:
Other:

**Is your project MCP or RCP ?**
☒ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

9/12/14 17:00

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

con-test ANALYTICAL LABORATORY
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www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

# CHAIN OF CUSTODY RECORD

1410533

Rev 04.05.12



Company Name:

Address:

Attention: see pg 1 of 4

Project Location:

Sampled By:

Telephone:

Project # see pg 1 of 4

Client PO#

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: see pg 1 of 4
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | *** Container Co | TPH-DRO (8015C) | VOC | SVOC | Ignit/pH | Reactive Cn and S | TCLP Lead | TCLP Mercury | TCLP VOC | TCLP Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | I | H | I | I | I | I | I | I | I | I | I | I |
| | | | | | | | | A | V | A | A | A | A | A | O | A | | | |
| | SB-102-3 (1-3') | 9/12/14 | 0942 | | X | S | U | | | | | | | | | X | X | | |
| | SB-102-4D (1-3') | | | | X | S | U | | | | | | | | | | | | |
| | SB-102-4C (0-1') | | 0952 | | X | S | U | | | | | | | | | X | | | |
| | SB-102-4C (0-3') | | 0952 | | X | S | U | | | | X | | EH | X | X | | | | |
| | SB-102-4C (1.5') | | 0952 | | X | S | U | | | | | X | | | | | | | |
| | SB-104 (1') | | 0958 | | X | S | U | | | | | | | | | X | | | |
| | SB-102-4B (0-1') | | 1005 | | X | S | U | | | | | | | | | X | | | |
| | SB-102-4A (1-3') | | 1013 | | X | S | U | | | | | | | | | X | | | |
| | SB-102-12 (0.5-1.5') | | 1020 | | X | S | U | | | | | | | | | X | | | |
| | SB-102-12 (0-3') | ✓ | 1020 | | X | S | U | | | | X | | EH | X | X | | | | |

ANALYSIS REQUESTED

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

| | | |
|---|---|---|
| Relinquished by: (signature) | 9/12/14 | Date/Time: 1430 |
| Received by: (signature) | 9/12/14 | Date/Time: 1426 |
| Relinquished by: (signature) | 9/12/14 | Date/Time: 1706 |
| Received by: (signature) | 9/12/14 | Date/Time: 17:00 |

**Turnaround** ††
☐ 7-Day
☐ 10-Day
☒ Other 5day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

**Detection Limit Requirements**
Massachusetts: S-1/GW-2/GW-3 RCS-1
Connecticut:
Other:

**Is your project MCP or RCP ?**
⊘ MCP Form Required
○ RCP Form required
○ MA State DW Form Required PWSID # _____

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WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulf
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Dissolved Meta
○ Field Filtered
○ Lab to Filter

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

# CHAIN OF CUSTODY RECORD

1410553
Rev 04.05.12



Company Name:
Address:
Attention: See pg 1 of 4
Project Location:
Sampled By:

Telephone:
Project # See pg 1 of 4
Client PO#

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: See pg 1 of 4
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | *** Container Co | TPH-D20(8015C) | VOC | SVOC | Ignitability | Reactive Cn and S | TCLP Lead | TCLP Mercury | TCLP VOC | TCLP Cadmium | Dissolved Meta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SB-102-12 (1.5') | 9/12/14 | 1020 | | X | S | U | 1 | I | A | | X | | | | | | | | |
| | SB-102-8D / MW-316 (5-7') | | 1034 | | X | S | U | 1 | I | A | | | | | | X | | | | |
| | SB-102-8A (1-3') | | 1039 | | X | S | U | 1 | I | A | | | | | | X | | | | |
| | SB-105 (6') | | 1050 | | X | S | U | 1 | I | A | | | | | | X | | | | |
| | SB-102-8C (1-3') | | 1101 | | X | S | U | 1 | I | A | | | | | | X | | | | |
| | SB-102-8B (1-3') | | 1124 | | X | S | U | 1 | I | A | | | | | | X | | | | |
| | 102EXISB1B-1B (5-7') | | 1157 | | X | S | U | 1 | I | A | | | | | | | | X | | |
| | SB-102-5C (0-3') | | 1201 | | X | S | U | 1 | I | A | X | | EH | X | X | | | | | |
| | SB-102-5C (1-5') | | 1201 | | X | S | U | 1 | I | A | | X | | | | | | | | |
| | SB-102-5C (1-3') | ↓ | 1201 | | X | S | U | 1 | I | A | | | | | | X | | | | |

**ANALYSIS REQUESTED**

***Container Co: A A A A A A O A

Dissolved Meta
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulf
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

| | | |
|---|---|---|
| Relinquished by: (signature) | 9/12/14 | Date/Time: 1430 |
| Received by: (signature) | 9/12/14 | Date/Time: 1430 |
| Relinquished by: (signature) | 9/12/14 | Date/Time: 17:00 |
| Received by: (signature) 5.2° | 9/12/14 | Date/Time: 17:00 |

**Turnaround** ††
☐ 7-Day
☐ 10-Day
☑ Other 5day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

**Detection Limit Requirements**
Massachusetts: S-1/GW-2/GW-3 RCS-1
Connecticut:
Other:

**Is your project MCP or RCP ?**
☑ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

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Table of Contents

# CHAIN OF CUSTODY RECORD

14IO533

Rev 04.05.12

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028



Company Name:

Address:

See pg 1 of 4

Attention:

Project Location:

Sampled By:

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Telephone:

Project #

Client PO# See pg 1 of 4

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | ***Container Code | TPH-DRO (8015C) | VOC | SVOC | Hant/pH | Reactive Cn and S | TCLP Lead | TCLP Mercury | TCLP VOC | TCLP Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 1 | H | A | | | | | | | | | |
| | | | | | | | | 1 | V | A | | | | | | | | | |
| | | | | | | | | 1 | A | A | | | | | | | | | |
| | | | | | | | | 1 | A | A | | | | | | | | | |
| | | | | | | | | 1 | A | A | | | | | | | | | |
| | | | | | | | | 1 | A | A | | | | | | | | | |
| | | | | | | | | 1 | A | A | | | | | | | | | |
| | | | | | | | | 1 | A | O | | | | | | | | | |
| | | | | | | | | 1 | A | O | | | | | | | | | |
| | SB-102-5B (1-3') | 9/12/14 | 1203 | | X | S | U | | | | | | | | | X | | | |
| | SB-102-5D (5-7') | | 1245 | | X | S | U | | | | | | | | | X | | | X |
| | SB-102-5A (5-7) | | 1252 | | X | S | U | | | | | | | | | X | | | |
| | 102EX1SB2A-1C(7-9') | | 1313 | | X | S | U | | | | | | | | | | | X | |
| | 102EX1SB2A-2A(3-5') | | 1317 | | X | S | U | | | | | | | | | | | X | |
| | SB-195 (7.5') | | 1325 | | X | S | U | | | | | | | | | X | | | |
| | SP 102EX1SB2A-2(4-6') | | 1348 | | X | S | U | | | | | | | | | | | X | |
| | SB-102-7 (0-3') | | 1404 | | X | S | U | | | | X | | BH | X | X | | | | |
| | SB-102-7 (1.5') | | 1404 | | X | S | U | | | | | X | | | | | | | |
| | SB-102-7 (0-1') | | 1404 | | X | S | U | | | | | | | | | X | | | |

**ANALYSIS REQUESTED**

Dissolved Metal
○ Field Filtered
○ Lab to Filter

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H - High; M - Medium; L - Low; C - Clean; U - Unknown

Comments:

| | | |
|---|---|---|
| Relinquished by: (signature) | 9/12/14 | Date/Time: 1430 |
| Received by: (signature) | 9/12/14 | Date/Time: 1436 |
| Relinquished by: (signature) | 9/12/14 | Date/Time: 1700 |
| Received by: (signature) | 9/12/14 | Date/Time: 17:00 |

**Turnaround** ††
☐ 7-Day
☐ 10-Day
☒ Other 5day
RUSH †
☐ †24-Hr ☐ †48-Hr
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www.contestlabs.com

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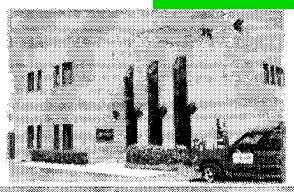

# Sample Receipt Checklist

CLIENT NAME: TRC Environmental RECEIVED BY: KB DATE: 9/12/14

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included
2) **Does the chain agree with the samples?** (Yes) No
If not, explain:
3) **Are all the samples in good condition?** (Yes) No
If not, explain:
4) **How were the samples received:**
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑
**Were the samples received in Temperature Compliance of (2-6°C)?** (Yes) No N/A
Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.2°
5) **Are there Dissolved samples for the lab to filter?** Yes (No)
Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** (Yes) No
Who was notified Dave Date 9/12/14 Time _____
7) **Location where samples are stored:** 19
Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____
8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

## Containers received at Con-Test

| | # of containers | | # of containers |
|---|---|---|---|
| 1 Liter Amber | | 8 oz amber/clear jar | 35 |
| 500 mL Amber | | 4 oz amber/clear jar | |
| 250 mL Amber (8oz amber) | | 2 oz amber/clear jar | 6 |
| 1 Liter Plastic | | Plastic Bag / Ziploc | |
| 500 mL Plastic | | SOC Kit | |
| 250 mL plastic | | Non-ConTest Container | |
| 40 mL Vial - type listed below | 18 | Perchlorate Kit | |
| Colisure / bacteria bottle | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | Other glass jar | |
| Encore | 4 | Other | |

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 6
# Bisulfate _____ # DI Water 12
# Thiosulfate _____ Unpreserved

Time and Date Frozen: 5.2° 9/12/14 17:00

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

| Question | Answer (True/False) T/F/NA | Comment |
|---|---|---|
| 1) The cooler's custody seal, if present, is intact. | NA | |
| 2) The cooler or samples do not appear to have been compromised or tampered with. | T | |
| 3) Samples were received on ice. | T | |
| 4) Cooler Temperature is acceptable. | T | |
| 5) Cooler Temperature is recorded. | T | |
| 6) COC is filled out in ink and legible. | T | |
| 7) COC is filled out with all pertinent information. | T | |
| 8) Field Sampler's name present on COC. | T | |
| 9) There are no discrepancies between the sample IDs on the container and the COC. | T | |
| 10) Samples are received within Holding Time. | T | |
| 11) Sample containers have legible labels. | T | |
| 12) Containers are not broken or leaking. | T | |
| 13) Air Cassettes are not broken/open. | NA | |
| 14) Sample collection date/times are provided. | T | |
| 15) Appropriate sample containers are used. | T | |
| 16) Proper collection media used. | T | |
| 17) No headspace sample bottles are completely filled. | T | |
| 18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs. | T | |
| 19) Trip blanks provided if applicable. | NA | |
| 20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter. | NA | |
| 21) Samples do not require splitting or compositing. | NA | |

**Who notified of False statements?** **Date/Time:** 9/12/14 17:00

**Doc #277 Rev. 4 August 2013** **Log-In Technician Initials:** KB **Date/Time:**

# MADEP MCP Analytical Method Report Certification Form

| | | | |
|---|---|---|---|
| Laboratory Name: | Con-Test Analytical Laboratory | Project #: | 14I0553 |
| Project Location: | 101-102 Greenwood St., New Bedford, MA | RTN: | |

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

14I0553-01 thru 14I0553-39

Matrices: Soil

**CAM Protocol (check all that below)**

| | | | | | |
|---|---|---|---|---|---|
| 8260 VOC<br>CAM II A (X) | 7470/7471 Hg<br>CAM IIIB (X) | MassDEP VPH<br>CAM IV A ( ) | 8081 Pesticides<br>CAM V B ( ) | 7196 Hex Cr<br>CAM VI B ( ) | MassDEP APH<br>CAM IX A ( ) |
| 8270 SVOC<br>CAM II B ( ) | 7010 Metals<br>CAM III C ( ) | MassDEP EPH<br>CAM IV A ( ) | 8151 Herbicides<br>CAM V C ( ) | 8330 Explosives<br>CAM VIII A ( ) | TO-15 VOC<br>CAM IX B ( ) |
| 6010 Metals<br>CAM III A (X) | 6020 Metals<br>CAM III D ( ) | 8082 PCB<br>CAM V A ( ) | 9014 Total Cyanide/PAC<br>CAM VI A ( ) | 6860 Perchlorate<br>CAM VIII B ( ) | |

***Affirmative response to Questions A throughF is required for "Presumptive Certainty" status***

| | | | |
|---|---|---|---|
| **A** | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | ☑ Yes | ☐ No[1] |
| **B** | Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed? | ☑ Yes | ☐ No[1] |
| **C** | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | ☑ Yes | ☐ No[1] |
| **D** | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data? | ☑ Yes | ☐ No[1] |
| **E a** | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | ☐ Yes | ☐ No[1] |
| **E b** | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | ☐ Yes | ☐ No[1] |
| **F** | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)? | ☑ Yes | ☐ No[1] |

***A response to questions G, H and I below is required for "Presumptive Certainty" status***

| | | | |
|---|---|---|---|
| **G** | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | ☑ Yes | ☐ No[1] |

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

| | | | |
|---|---|---|---|
| **H** | Were all QC perfomance standards specified in the CAM protocol(s) achieved? | ☐ Yes | ☑ No[1] |
| **I** | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | ☐ Yes | ☑ No[1] |

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

***I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.***

Signature: Tod Kopyscinski Position: Laboratory Director

Printed Name: Tod E. Kopyscinski Date: 09/19/14

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 22, 2014

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: 101-102 Greenwood St., New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 14I0639

Enclosed are results of analyses for samples received by the laboratory on September 15, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

# Table of Contents

# Table of Contents (continued)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/22/2014

PURCHASE ORDER NUMBER: 72798

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14I0639

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

PROJECT LOCATION: 101-102 Greenwood St., New Bedford, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| SB-101-7D (1-3) | 14I0639-01 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-6A (1-3) | 14I0639-02 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-6B (1-3) | 14I0639-03 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-6C (1-3) | 14I0639-04 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-6D (1-3) | 14I0639-05 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-5A (1-3) | 14I0639-06 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-5A (5-9) | 14I0639-07 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-5B (0-1) | 14I0639-08 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-5B (5-6) | 14I0639-09 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-5D (4-6) | 14I0639-10 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-4A/5C (1-3) | 14I0639-11 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-4B (0-1) | 14I0639-12 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-4C (0-1) | 14I0639-13 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |

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

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/22/2014

PURCHASE ORDER NUMBER: 72798

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14I0639

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

PROJECT LOCATION: 101-102 Greenwood St., New Bedford, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| SB-101-4C (4-9) | 14I0639-14 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-101-4D (5-8) | 14I0639-15 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| SB-102-6 (1-3) | 14I0639-16 | Soil | | SM 2540G | |
| | | | | SW-846 1311 | |
| | | | | SW-846 6010C | |

con-test® ANALYTICAL LABORATORY

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

**CASE NARRATIVE SUMMARY**

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

For method 6010, only a select list of metals was requested and reported.

For inorganic analysis, a sample for requested inorganic analysis was not designated for matrix spike sample as per MA CAM.

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-7D (1-3)**  Sampled: 9/15/2014 08:29

**Sample ID: 14I0639-01**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.2 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-7D (1-3)**  Sampled: 9/15/2014 08:29

**Sample ID: 14I0639-01**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.40 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 12:37 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6A (1-3)**  Sampled: 9/15/2014 08:32

**Sample ID: 14I0639-02**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 72.0 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6A (1-3)**  Sampled: 9/15/2014 08:32

**Sample ID: 14I0639-02**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.7 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 12:43 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6B (1-3)**  Sampled: 9/15/2014 08:35

**Sample ID: 14I0639-03**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 92.9 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6B (1-3)**  Sampled: 9/15/2014 08:35

**Sample ID: 14I0639-03**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.53 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 12:48 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6C (1-3)**  Sampled: 9/15/2014 08:39

**Sample ID: 14I0639-04**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 81.5 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6C (1-3)**  Sampled: 9/15/2014 08:39

**Sample ID: 14I0639-04**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.34 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 12:53 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6D (1-3)**  Sampled: 9/15/2014 08:48

**Sample ID: 14I0639-05**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 77.9 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-6D (1-3)**  Sampled: 9/15/2014 08:48

**Sample ID: 14I0639-05**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.40 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 12:58 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5A (1-3)**  Sampled: 9/15/2014 08:53

**Sample ID: 14I0639-06**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 91.1 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5A (1-3)**  Sampled: 9/15/2014 08:53

**Sample ID: 14I0639-06**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 0.047 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:04 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5A (5-9)**  Sampled: 9/15/2014 08:53

**Sample ID: 14I0639-07**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 41.7 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5A (5-9)**  Sampled: 9/15/2014 08:53

**Sample ID: 14I0639-07**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 1.0 | 0.0040 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:34 | OP |
| Lead | 5.5 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:34 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5B (0-1)**  Sampled: 9/15/2014 09:02

**Sample ID: 14I0639-08**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 91.8 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5B (0-1)**  Sampled: 9/15/2014 09:02

**Sample ID: 14I0639-08**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.5 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:40 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5B (5-6)**  Sampled: 9/15/2014 09:02

**Sample ID: 14I0639-09**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 86.7 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5B (5-6)**  Sampled: 9/15/2014 09:02

**Sample ID: 14I0639-09**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.55 | 0.0040 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:45 | OP |
| Chromium | ND | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:45 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5D (4-6)**  Sampled: 9/15/2014 09:25

**Sample ID: 14I0639-10**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 80.8 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-5D (4-6)**  Sampled: 9/15/2014 09:25

**Sample ID: 14I0639-10**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.6 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:51 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4A/5C (1-3)**  Sampled: 9/15/2014 09:32

**Sample ID: 14I0639-11**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 90.3 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4A/5C (1-3)**  Sampled: 9/15/2014 09:32

**Sample ID: 14I0639-11**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.025 | 0.0040 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:57 | OP |
| Lead | 23 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 13:57 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4B (0-1)**  Sampled: 9/15/2014 09:40

**Sample ID: 14I0639-12**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 93.8 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4B (0-1)**  Sampled: 9/15/2014 09:40

**Sample ID: 14I0639-12**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.44 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 14:03 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4C (0-1)**  Sampled: 9/15/2014 09:53

**Sample ID: 14I0639-13**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 95.6 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4C (0-1)**  Sampled: 9/15/2014 09:53

**Sample ID: 14I0639-13**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.4 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 14:09 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4C (4-9)**  Sampled: 9/15/2014 09:53

**Sample ID: 14I0639-14**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 75.5 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4C (4-9)**  Sampled: 9/15/2014 09:53

**Sample ID: 14I0639-14**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.53 | 0.0040 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 14:13 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4D (5-8)**  Sampled: 9/15/2014 10:19

**Sample ID: 14I0639-15**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 85.0 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-101-4D (5-8)**  Sampled: 9/15/2014 10:19

**Sample ID: 14I0639-15**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 7.3 | 0.0040 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 14:19 | OP |
| Lead | 87 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 14:19 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-102-6 (1-3)**  Sampled: 9/15/2014 12:35

**Sample ID: 14I0639-16**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 92.7 | | % Wt | 1 | | SM 2540G | 9/17/14 | 9/18/14 8:28 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 101-102 Greenwood St., New Bed  Sample Description:  Work Order: 14I0639

Date Received: 9/15/2014

**Field Sample #: SB-102-6 (1-3)**  Sampled: 9/15/2014 12:35

**Sample ID: 14I0639-16**

Sample Matrix: Soil

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 2.1 | 0.010 | mg/L | 1 | | SW-846 6010C | 9/19/14 | 9/22/14 14:25 | OP |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

## Sample Extraction Data

**Prep Method: % Solids-SM 2540G**

| Lab Number [Field ID] | Batch | Date |
|---|---|---|
| 14I0639-01 [SB-101-7D (1-3)] | B105109 | 09/17/14 |
| 14I0639-02 [SB-101-6A (1-3)] | B105109 | 09/17/14 |
| 14I0639-03 [SB-101-6B (1-3)] | B105109 | 09/17/14 |
| 14I0639-04 [SB-101-6C (1-3)] | B105109 | 09/17/14 |
| 14I0639-05 [SB-101-6D (1-3)] | B105109 | 09/17/14 |
| 14I0639-06 [SB-101-5A (1-3)] | B105109 | 09/17/14 |
| 14I0639-07 [SB-101-5A (5-9)] | B105109 | 09/17/14 |
| 14I0639-08 [SB-101-5B (0-1)] | B105109 | 09/17/14 |
| 14I0639-09 [SB-101-5B (5-6)] | B105109 | 09/17/14 |
| 14I0639-10 [SB-101-5D (4-6)] | B105109 | 09/17/14 |
| 14I0639-11 [SB-101-4A/5C (1-3)] | B105109 | 09/17/14 |
| 14I0639-12 [SB-101-4B (0-1)] | B105109 | 09/17/14 |
| 14I0639-13 [SB-101-4C (0-1)] | B105109 | 09/17/14 |
| 14I0639-14 [SB-101-4C (4-9)] | B105109 | 09/17/14 |
| 14I0639-15 [SB-101-4D (5-8)] | B105109 | 09/17/14 |
| 14I0639-16 [SB-102-6 (1-3)] | B105109 | 09/17/14 |

**Prep Method: SW-846 3010A-SW-846 6010C** **Leachates were extracted on 9/18/2014 per SW-846 1311 in Batch B105186**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14I0639-01 [SB-101-7D (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-02 [SB-101-6A (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-03 [SB-101-6B (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-04 [SB-101-6C (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-05 [SB-101-6D (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-06 [SB-101-5A (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-07 [SB-101-5A (5-9)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-08 [SB-101-5B (0-1)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-09 [SB-101-5B (5-6)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-10 [SB-101-5D (4-6)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-11 [SB-101-4A/5C (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-12 [SB-101-4B (0-1)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-13 [SB-101-4C (0-1)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-14 [SB-101-4C (4-9)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-15 [SB-101-4D (5-8)] | B105272 | 50.0 | 50.0 | 09/19/14 |
| 14I0639-16 [SB-102-6 (1-3)] | B105272 | 50.0 | 50.0 | 09/19/14 |

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**QUALITY CONTROL**

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105109 - % Solids** | | | | | | | | | | |
| **Duplicate (B105109-DUP2)** | **Source: 14I0639-16** | | | Prepared: 09/17/14 Analyzed: 09/18/14 | | | | | | |
| % Solids | 94.4 | | % Wt | | 92.7 | | | 1.82 | 20 | |
| **Duplicate (B105109-DUP4)** | **Source: 14I0639-05** | | | Prepared: 09/17/14 Analyzed: 09/18/14 | | | | | | |
| % Solids | 75.6 | | % Wt | | 77.9 | | | 3.00 | 20 | |

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**QUALITY CONTROL**

**TCLP - Metals Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B105272 - SW-846 3010A** | | | | | | | | | | |
| **Blank (B105272-BLK1)** | | | | Prepared: 09/19/14 Analyzed: 09/22/14 | | | | | | |
| Cadmium | ND | 0.0040 | mg/L | | | | | | | |
| Chromium | ND | 0.010 | mg/L | | | | | | | |
| Lead | ND | 0.010 | mg/L | | | | | | | |
| **LCS (B105272-BS1)** | | | | Prepared: 09/19/14 Analyzed: 09/22/14 | | | | | | |
| Cadmium | 0.538 | 0.0040 | mg/L | 0.500 | | 108 | 80-120 | | | |
| Chromium | 0.534 | 0.010 | mg/L | 0.500 | | 107 | 80-120 | | | |
| Lead | 0.488 | 0.010 | mg/L | 0.500 | | 97.7 | 80-120 | | | |
| **LCS Dup (B105272-BSD1)** | | | | Prepared: 09/19/14 Analyzed: 09/22/14 | | | | | | |
| Cadmium | 0.534 | 0.0040 | mg/L | 0.500 | | 107 | 80-120 | 0.735 | 20 | |
| Chromium | 0.530 | 0.010 | mg/L | 0.500 | | 106 | 80-120 | 0.657 | 20 | |
| Lead | 0.481 | 0.010 | mg/L | 0.500 | | 96.1 | 80-120 | 1.59 | 20 | |
| **Matrix Spike (B105272-MS1)** | **Source: 14I0639-01** | | | Prepared: 09/19/14 Analyzed: 09/22/14 | | | | | | |
| Cadmium | 0.521 | 0.0040 | mg/L | 0.500 | 0.00824 | 103 | 75-125 | | | |
| Chromium | 0.517 | 0.010 | mg/L | 0.500 | ND | 103 | 75-125 | | | |
| Lead | 0.846 | 0.010 | mg/L | 0.500 | 0.396 | 89.9 | 75-125 | | | |

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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 |

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.

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

## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 6010C in Water*** | |
| Cadmium | NY,CT,ME,NC,NH,VA,NJ |
| Chromium | NY,CT,ME,NC,NH,VA,NJ |
| Lead | NY,CT,ME,NC,NH,VA,NJ |

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2016 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2015 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2015 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2015 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2015 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2014 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2014 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2015 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2015 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2015 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2015 |
| ME | State of Maine | 2011028 | 06/9/2015 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2014 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2015 |

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

# CHAIN OF CUSTODY RECORD

14J0639

Rev 04.05.12





Company Name: TRC Environmental
Address: 650 Suffolk St
Lowell, MA 01854
Attention: Matt Oliveira
Project Location: 101/102 Greenwood St, New Bedford, MA
Sampled By: ACT

Telephone: 978-970-5600
Project # 115058
Client PO# 72798

**DATA DELIVERY** (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: moliveira@trcsolutions.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | *** Container Code | TCLP Lead | TCLP Cadmium | TCLP Chromium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SB-101-7D (1-3') | 9/15/14 | 0829 | | X | S | U | I | A | | X | | |
| 02 | SB-101-6A (1-3') | | 0832 | | X | S | U | I | A | | X | | |
| 03 | SB-101-6B (1-3') | | 0835 | | X | S | U | I | A | | X | | |
| 04 | SB-101-6C (1-3') | | 0839 | | X | S | U | I | A | | X | | |
| 05 | SB-101-6D (1-3') | | 0848 | | X | S | U | I | A | | X | | |
| 06 | SB-101-5A (1-3') | | 0853 | | X | S | U | I | A | | | | X |
| 07 | SB-101-5A (5-9') | | 0853 | | X | S | U | I | A | | X | X | |
| 08 | SB-101-5B (0-1') | | 0902 | | X | S | U | I | A | | X | | |
| 09 | SB-101-5B (5-6') | | 0902 | | X | S | U | I | A | | | X | X |
| 10 | SB-101-5D (4-6') | ✓ | 0925 | | X | S | U | I | A | | X | | |

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

| | | |
|---|---|---|
| Relinquished by: (signature) | 9/15/14 | Date/Time: 1430 |
| Received by: (signature) | 9/15/14 | Date/Time: 1430 |
| Relinquished by: (signature) | 9/15/14 | Date/Time: 1700 |
| Received by: (signature) KQ | 9/15/14 | Date/Time: 1700 |

**Turnaround** ††
☐ 7-Day
☐ 10-Day
☒ Other 5-day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

**Detection Limit Requirements**
Massachusetts: S-1/GW-2/GW-3
RCS-1
Connecticut:
Other:

**Is your project MCP or RCP ?**
☒ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
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# CHAIN OF CUSTODY RECORD

14I0639

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028





Company Name:
Address:
Attention: see pg 1 of 2
Project Location:
Sampled By:
Telephone:
Project # see pg 1 of 2
Client PO#

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: see pg 1 of 2
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | ***Container Code | TCLP Lead | TCLP Cadmium | TCLP Chromium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | SB-101-4A/5C(1-3') | 9/15/14 | 0932 | | X | S | U | I | I | A | X | X | |
| 12 | SB-101-4B(0-1') | | 0940 | | X | S | U | I | I | A | X | | |
| 13 | SB-101-4C(0-1') | | 0953 | | X | S | U | I | I | A | X | | |
| 14 | SB-101-4C(4-9') | | 0953 | | X | S | U | I | I | A | | X | |
| 15 | SB-101-4D(5-8') | | 1019 | | X | S | U | I | I | A | X | X | |
| 16 | SB-102-6(1-3') | | 1235 | | X | S | U | I | I | A | X | | |

ANALYSIS REQUESTED

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/15/14 Date/Time: 1430
Received by: (signature) 9/15/14 Date/Time: 1430
Relinquished by: (signature) 9/15/14 Date/Time: 1700
Received by: (signature) 5.1° 9/15/14 Date/Time: 1700

**Turnaround** ††
☐ 7-Day
☐ 10-Day
☒ Other 5day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

**Detection Limit Requirements**
Massachusetts: S-1/GW-2/GW-3
RCS-1
Connecticut:
Other:

**Is your project MCP or RCP ?**
☒ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Dissolved Meta
○ Field Filtered
○ Lab to Filter

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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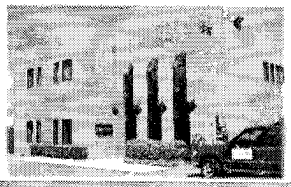


# Sample Receipt Checklist

**CLIENT NAME:** TRC Environmental **RECEIVED BY:** KB **DATE:** 9/15/14

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**
   On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑
   **Were the samples received in Temperature Compliance of (2-6°C)?** (Yes) No N/A
   Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.1°
5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19
   Permission to subcontract samples? Yes No
   (Walk-in clients only) if not already approved
   Client Signature: _____
8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

## Containers received at Con-Test

| | # of containers | | # of containers |
|---|---|---|---|
| 1 Liter Amber | | 8 oz amber/clear jar | 16 |
| 500 mL Amber | | 4 oz amber/clear jar | |
| 250 mL Amber (8oz amber) | | 2 oz amber/clear jar | |
| 1 Liter Plastic | | Plastic Bag / Ziploc | |
| 500 mL Plastic | | SOC Kit | |
| 250 mL plastic | | Non-ConTest Container | |
| 40 mL Vial - type listed below | | Perchlorate Kit | |
| Colisure / bacteria bottle | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | Other glass jar | |
| Encore | | Other | |

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
# Bisulfate _____ # DI Water _____
# Thiosulfate _____ Unpreserved _____

**Time and Date Frozen:**

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

| Question | Answer (True/False) T/F/NA | Comment |
|---|---|---|
| 1) The cooler's custody seal, if present, is intact. | NA | |
| 2) The cooler or samples do not appear to have been compromised or tampered with. | T | |
| 3) Samples were received on ice. | T | |
| 4) Cooler Temperature is acceptable. | T | |
| 5) Cooler Temperature is recorded. | T | |
| 6) COC is filled out in ink and legible. | T | |
| 7) COC is filled out with all pertinent information. | T | |
| 8) Field Sampler's name present on COC. | T | |
| 9) There are no discrepancies between the sample IDs on the container and the COC. | T | |
| 10) Samples are received within Holding Time. | T | |
| 11) Sample containers have legible labels. | T | |
| 12) Containers are not broken or leaking. | T | |
| 13) Air Cassettes are not broken/open. | NA | |
| 14) Sample collection date/times are provided. | T | |
| 15) Appropriate sample containers are used. | T | |
| 16) Proper collection media used. | T | |
| 17) No headspace sample bottles are completely filled. | T | |
| 18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs. | T | |
| 19) Trip blanks provided if applicable. | NA | |
| 20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter. | NA | |
| 21) Samples do not require splitting or compositing. | NA | |

**Who notified of False statements?** **Date/Time:** 9/15/14

**Doc #277 Rev. 4 August 2013** **Log-In Technician Initials:** KB **Date/Time:** 17:00

# MADEP MCP Analytical Method Report Certification Form

| | | | |
|---|---|---|---|
| Laboratory Name: | Con-Test Analytical Laboratory | Project #: | 14I0639 |
| Project Location: | 101-102 Greenwood St., New Bedford, MA | RTN: | |

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

14I0639-01 thru 14I0639-16

Matrices: Soil

**CAM Protocol (check all that below)**

| | | | | | |
|---|---|---|---|---|---|
| 8260 VOC CAM II A ( ) | 7470/7471 Hg CAM IIIB ( ) | MassDEP VPH CAM IV A ( ) | 8081 Pesticides CAM V B ( ) | 7196 Hex Cr CAM VI B ( ) | MassDEP APH CAM IX A ( ) |
| 8270 SVOC CAM II B ( ) | 7010 Metals CAM III C ( ) | MassDEP EPH CAM IV A ( ) | 8151 Herbicides CAM V C ( ) | 8330 Explosives CAM VIII A ( ) | TO-15 VOC CAM IX B ( ) |
| 6010 Metals CAM III A (X) | 6020 Metals CAM III D ( ) | 8082 PCB CAM V A ( ) | 9014 Total Cyanide/PAC CAM VI A ( ) | 6860 Perchlorate CAM VIII B ( ) | |

***Affirmative response to Questions A throughF is required for "Presumptive Certainty" status***

| | | | |
|---|---|---|---|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | ☑ Yes | ☐ No[1] |
| B | Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed? | ☑ Yes | ☐ No[1] |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | ☑ Yes | ☐ No[1] |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data? | ☑ Yes | ☐ No[1] |
| E a | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | ☐ Yes | ☐ No[1] |
| E b | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | ☐ Yes | ☐ No[1] |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)? | ☑ Yes | ☐ No[1] |

***A response to questions G, H and I below is required for "Presumptive Certainty" status***

| | | | |
|---|---|---|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | ☑ Yes | ☐ No[1] |

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

| | | | |
|---|---|---|---|
| H | Were all QC perfomance standards specified in the CAM protocol(s) achieved? | ☐ Yes | ☑ No[1] |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | ☐ Yes | ☑ No[1] |

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

***I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.***

Signature:  Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 09/22/14

# APPENDIX C

# GEOTECHNICAL INVESTIGATION INFORMATION

14 Gabriel Drive
Augusta, ME 04330

207.620.3800 PHONE
207.621.8226 FAX

www.TRCsolutions.com

# Memo

To: David Sullivan, LSP – Lowell

From: David Andrews, PE – Augusta
Jeffery Hansen, PH – Augusta

CC: Mathew Oliveira, CHMM-Manchester

Date: October 10, 2014

Re: Geotechnical Subsurface Characterization for Excavation

---

The City of New Bedford (the City) Department of Public Infrastructure (DPI) is planning to excavate impacted soil at 102 Greenwood Street (the Site), an acquired residential property. A subsurface exploration program was completed for the Site to obtain a general understanding of subsurface conditions and provide an assessment of soil properties as they relate to the excavation support system.

Subsurface data on the Site has been obtained from numerous geoprobe borings, four geotechnical soil borings (i.e. borings performed using standard penetration testing), and two monitoring wells in the proposed excavation footprint. Soil samples obtained from the geotechnical borings were submitted to TRC's Mount Laurel, New Jersey geotechnical laboratory for geotechnical testing. This technical memorandum describes subsurface conditions encountered beneath the Site and presents recommendations based upon geotechnical and hydraulic properties of the soil based upon the testing described herein. Guidance for dewatering is also provided. Logs for the four geotechnical borings, two monitoring wells, results of laboratory testing, and slug test data are provided as attachments. Logs for the numerous other geoprobe borings advanced at the Site have already been provided to the City.

## PROJECT DESCRIPTION

The Site is a nearly level residential lot at the corner of Greenwood Street and Hathaway Boulevard in New Bedford. Site remediation calls for excavation of impacted soils to depths up to 19 feet below ground surface (bgs) near Hathaway Boulevard. We understand that the general plan for the remediation work is to:

- Lower general Site grades by 3 feet,
- Make an open cut excavation,
- Use steel plates to support the sides of the excavations where required,
- Dewater the excavation using area "sumps",
- Backfill below groundwater level excavations with crushed stone, and
- Reuse "clean" excavated soils to backfill above the groundwater.

The City intends to use the property as part of a park after remediation.

**SUBSURFACE EXPLORATION PROGRAM**

The geotechnical soils borings were advanced at various times:

- Borings 102EX2SB8-A1 and 102EX2SBB8-A2 were drilled on June 27, 2013 by GeoSearch Inc. of Fitchburg, MA,
- Boring GT-1 was drilled on June 16, 2014 by Geologic Earth Exploration, Inc. of Norfolk, MA, and
- Borings/Monitoring well GT-2/MW-GT-2S and GT-2/MW-GT-2D were completed on September 12 and 15, 2014 by Geologic Earth Exploration, Inc.

The locations of the borings are shown on Figure 1, Geotechnical Boring Location Plan.

Prior to drilling, the boring locations were pre-established by survey performed by Land Planning, Incorporated of Hansen, MA and the Site was cleared for underground utilities by member utilities notified by Dig Safe®. A TRC professional oversaw the work and logged the borings.

Soil samples were obtained using the split barrel sampling procedure described in American Society of Testing and Materials (ASTM) Standard D1586. This sampling procedure involves driving a standard, 2-inch outside diameter (OD) split-barrel sampling spoon (i.e., split-spoon) over a two foot interval using a 140 pound weight falling 30 inches.

Soil samples collected with the split spoon sampler were visually examined by TRC and classified. Soil descriptions, blow counts, changes in stratigraphy, split spoon penetration, sample recovery, observations of soil moisture content and depth to groundwater were used to develop the boring logs. Changes in stratigraphy were identified based on changes in drilling rates and/or other observations noted during drilling. Logs for the borings are provided in Attachment 1.

Rising head slug tests were performed on the three monitoring wells (i.e., MW-36, MW-GT-2S, and MW-GT-2D) on September 21, 2014 by TRC personnel in accordance with generally

accepted standards. Water level recovery data were analyzed using analytical equations developed for unconfined groundwater conditions which exist at the Site and provided as part of the AQTESOLV software program. In general, slug test results suggest that the deeper soils near to bottom of the proposed excavation are more permeable. The output from the slug tests are included in Attachment 2.

## LABORATORY TESTING

Laboratory testing of representative soil samples was performed by TRC at our Mount Laurel, New Jersey soils mechanics laboratory. The selected split-spoon samples were analyzed for gradation to verify field classifications. The laboratory testing data is summarized in the following table and data sheets from the laboratory are included in Attachment 1.

| **Laboratory Results** | | | | |
|---|---|---|---|---|
| **Parameter** | **Sample** | **Sample** | **Sample** | **Sample** |
| | **GT-1** | **GT-1** | **GT-2** | **GT-2** |
| Depth, feet | 15-17 | 20-22 | 15-16 | 21-22 |
| Soil Description | Silty Sand | Silty Sand | Gravelly Silty Sand | Gravelly Sand |
| USCS* | SM | SM | SM | SM-SP |
| Gravel, % | 14.3 | 19.0 | 22.4 | 34.6 |
| Sand, % | 53.0 | 65.3 | 57.9 | 55.5 |
| Fines, % | 32.7 | 15.7 | 19.7 | 9.9 |
| Moisture Content, % | 10.1 | 11.8 | 6.1 | 7.9 |
| Dry Unit Weight, pcf ** | - | - | - | 122.3 |
| Vertical Permeability, (in/hr) | - | - | - | 0.13 |

*Unified Soil Classification System

** Permeability Test Unit Weight

## SUBSURFACE CONDITIONS

### Soil Profile

The borings indicate a relative uniform soil profile at the Site. The generalized soil profile is:

- 0 to 7 feet bgs - Loose sandy fill containing variable amounts of mostly inert urban fill

(ash, coal, clinkers, glass and wood).

- 7 feet to 10 feet bgs - Soft to medium dense peat/organic soil/silt- the original wetland surface. The wetland soil layers are somewhat variable in thickness and may be absent is some locations.

- 10 feet to greater than 38 feet bgs - Medium dense to very dense silty sand with variable gravel and cobble content. Thin strata of fine sand and gravelly sand are present. Soils from approximately 12 to 18 feet are characterized by permeabilities that are on the order of 1 x $10^{-4}$ centimeters per second (cm/sec) based upon analysis of slug test data from well locations MW-36 and MW-GT-2S. Deeper soils below the bottom of the excavation are approximately an order of magnitude higher (i.e., on the order of 0 x $10^{-3}$ cm/sec) based upon slug test data from MW-GT-2D.

**Groundwater**

During slug testing performed on September 21, 2014, groundwater in the monitoring wells was at approximately 12 feet bgs. Soil moisture and color from other borings indicate a seasonal fluctuation in groundwater from approximately 8 feet bgs to perhaps greater than 15 feet bgs.

**Excavation /Support System**

The soil parameters provided in the following table can be assumed for preliminary design for an excavation support system.

| **Suggested Soil Properties** | | | |
|---|---|---|---|
| Depth, feet | 0-7 | 7-10 | 10 to >38 |
| Soil Description | Granular Urban Fill | Peat/Silt | Gravelly Sand |
| Density | Loose | Soft/Loose | Dense |
| Moist Unit Weight, pcf* | 120 | 110 | 125 |
| Saturated Unit Weight, pcf* | 130 | 110 | 135 |
| Friction Angle, deg. | 28 | - | 35 |
| Permeability, (in/hr) | - | - | 0.13 |
| OSHA Soil Type | B | C | B/C** |

* Permeability Test Unit Weight

**Type C if groundwater is flowing out of slope

The soils at the site would be considered a "Layered Geological Strata" situation by OSHA Part 1926 Subpart P and, therefore, must be determined on a case-by-case basis. For excavations

above the peat/silt layer, through the peat/silt layer and if groundwater is flowing out of the side slopes of excavations below the peat silt layer, the required slope is 1 ½ Horizontal to 1 Vertical (1.5H:1V). For excavations deeper than the peat/silt layer with no groundwater flowing into the excavation, the slope below the peat/silt layer can be 1H:1V.

Braces/support for the excavation should be designed in accordance with the applicable Subpart of OSHA Part 1926.

Equipment should work as far away from the open excavation as practical. Soils should be stockpiled at least as far away from the edge of the excavation as the excavation is deep.

**Comments on the Overall Excavation Scheme**

TRC's geotechnical engineers are generally familiar with steel plate supported excavations (SPS) through our work with Contractors who tend to use them based on experience and local practice. DPI has noted their experience with successfully excavating to the required depths in other parts of the City, and expressed their confidence that the steel plate support approach would work the Site.

The DPI should take the following into account with planning the work:

- Pushing the steel plates into the glacial till could be difficult due to the dense nature of the soil (based on standard penetration tests) and presences of gravel and cobbles,
- Running sands were encountered in a couple of the borings. Control of groundwater inflow during dewatering or an unstable trench bottom could occur, and
- Stand-up time for the fill soils are difficult to judge and could be quite variable.

We would suggest the deep excavations be kept as narrow as practical and done perpendicular to Hathaway Boulevard. The trenches should be excavated and backfilled as rapidly as possible. It would be prudent, when the excavation approaches Hathaway Boulevard, to monitor the sidewalk near the excavation for movement. If cracking or shifting of the sidewalk is observed, the excavation should be stopped.

Steel plates can shift and move quickly. From a worker safety perspective, we strongly recommend no one walks or stands closer to the excavation than the excavation depth and the public be excluded from the sidewalk while excavation is occurring. The excavations should be filled at the end of each day (as noted above, stand-up time for the fill soils is hard to judge and likely variable).

The plan for lowering overall Site grades and backfilling below the groundwater table with crushed stone are good ideas.

Backfill should be nominally compacted to create a uniform stable subgrade for the proposed park.

## EXCAVATION DEWATERING

Based upon the excavation design (see Sheet C-104 of the Preliminary Design for the Release Abatement Measure at the Acquired Residential Properties; TRC, 2014), portions of the excavation at 102 Greenwood Street will extend from approximately 2 up to 8 feet below the groundwater table.[1] Consequently, the excavation will need to be dewatered in order to effectively remove impacted soil that is submerged below the water table. In order to assist the City in selecting an appropriate pump capable of dewatering the excavation, TRC performed an assessment to estimate the potential rate of groundwater seepage into the excavation using standard analytical methods described by Powers, et. al. in *Construction Dewatering and Groundwater Control, New Methods and Applications* (2007) and Cedegren in *Seepage, Drainage, and Flow Nets* (1988).

Based upon an understanding of groundwater hydraulics, groundwater is anticipated to enter the excavation both horizontally from the excavation walls that extend below the water table as well as vertically through the bottom of the excavation. Each component of flow was quantified separately using different analytical equations. The calculations of estimated groundwater seepage to the excavation are provided in Attachment 3. The approach used to estimate the groundwater seepage rate to the excavation is presented in the following sections.

### Horizontal Groundwater Seepage Estimate

The application of analytical equations used to estimate flow rates from a pumping well for predicting groundwater seepage into excavations is well documented in engineering literature including the two references cited above. On this basis, the Dupuit-Forchheimer Equation for radial flow to a well or point source excavation was used to estimate the rate of horizontal groundwater seepage into the excavation at the 102 Greenwood Street property. Mathematically, the Dupuit-Forchheimer Equation is expressed as follows for unconfined groundwater conditions that are present in the area of the excavation:

$$Q = K * \pi * (H^2 - h^2)/\text{Log}\,(R/r_w)$$

Where Q = Estimated horizontal groundwater seepage rate into the excavation, length$^3$/time;
K = Horizontal hydraulic conductivity, length/day;
Π = 3.1416;
H = Hydraulic head (i.e., saturated thickness) in absence of pumping, length;
h = Head in excavation during dewatering, length;
R = Radius of influence for well with an equivalent radius for the area of excavation, length; and
$r_w$ = equivalent radius for a circular well corresponding to the area of excavation, length.

[1] Excavation depths below the water table are based upon water level measurements from MW-GT-2S during September 2014 and assume a maximum excavation depth of 19 feet bgs plus an additional foot where needed to install dewatering sumps.

Input for each parameter was developed using site-specific data obtained from geotechnical borings and analysis of slug tests completed at wells MW-36, MW-GT-2S, and MW-GT-2D within the footprint of the excavation area. As previously discussed, boring logs and slug test analyses are provided in Attachments A and B, respectively. The depth to groundwater during slug testing was 12.2 feet bgs and the depth to bedrock was approximately 34 feet. These data were used to estimate the initial hydraulic head and the hydraulic heads to be achieved during dewatering.

It should be noted that various parts of the excavation will extend to different depths below the groundwater table. Thus, the hydraulic head below the excavation will decrease and groundwater seepage rates will be higher in those areas extending deeper into the water table. In order to account for these differences, it was envisioned that excavation below the water table would occur in two foot increments with the excavation footprint with hydraulic head for each two foot excavation increment decreasing with depth. Separate calculations were performed for each two foot increment to account for the changes in head and corresponding area to better estimate horizontal groundwater seepage rates as the excavation progresses.

The radius of influence of dewatering activities is not known prior to excavation and must be estimated by other means. The Theis Transient Well Equation was to estimate the radius of influence of dewatering activities to be performed at the Greenwood Street excavation. It was assumed that the total pumping time required to complete dewatering and the excavation was 1.5 days and a maximum drawdown of 8 feet would be required in the excavation. Based upon these data, the radius of influence of the dewatering activities was estimated to extend approximately 150 feet from the edge of the excavation. The calculation performed to estimate the radius of influence including the Theis Equation and definition of terms is provided in Attachment 3.

Based upon the calculations described above, the upper end rate of horizontal seepage into the excavation was estimated to be approximately 19 gallons per minute (gpm).

**Vertical Groundwater Seepage Estimate**

Vertical groundwater seepage into the excavation was estimated using Darcy's Law, which is expressed as follows:

$$Q = K_v * i * A$$

Where Q = Vertical groundwater seepage rate, length$^3$/time;
$K_v$ = Vertical hydraulic conductivity, length/time;
i = Vertical hydraulic gradient; and
A = Cross-sectional area of bottom of excavation, length$^2$.

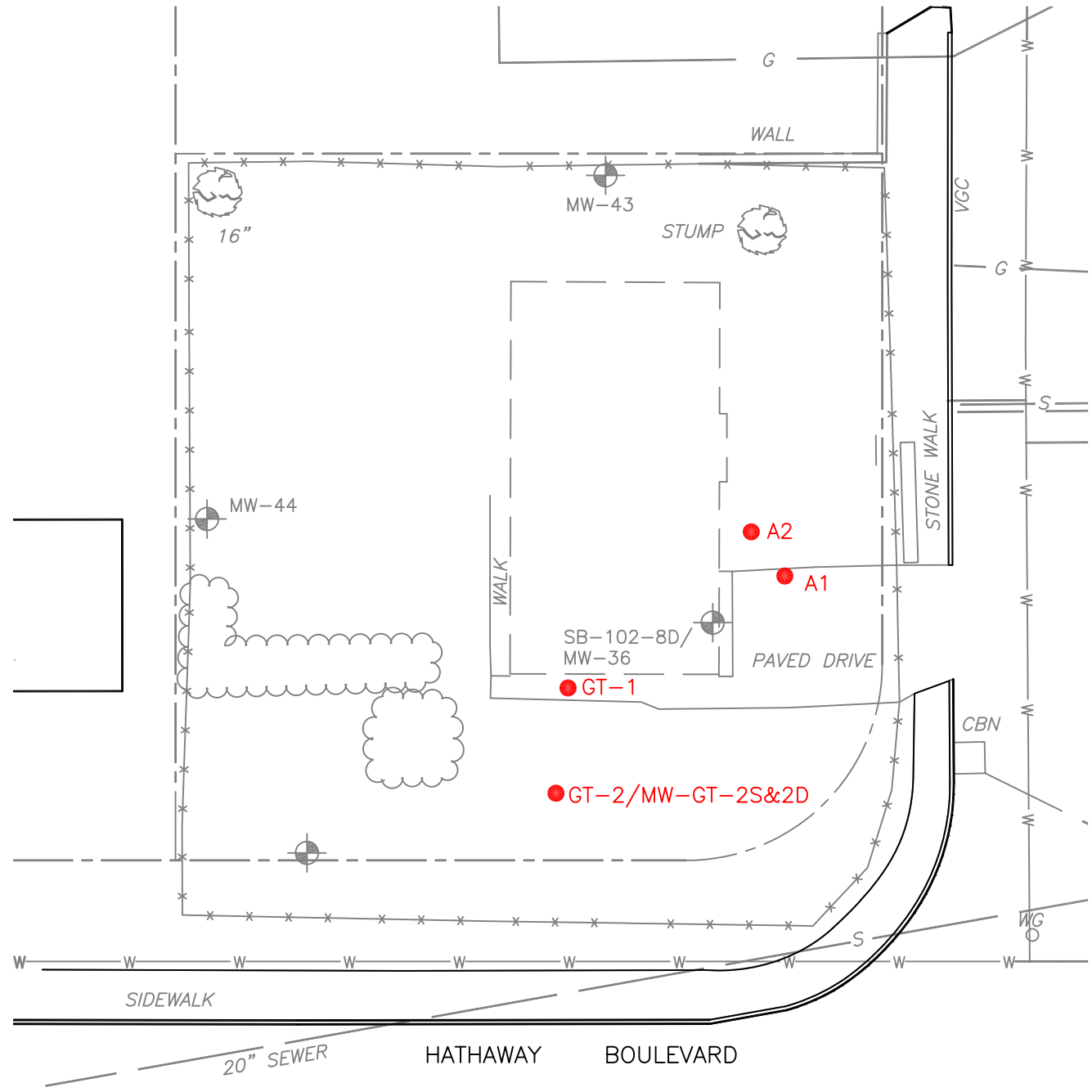
The vertical hydraulic conductivity of soil at the base of the excavation was measured as part of the geotechnical laboratory testing program described previously in this memorandum. Both the vertical hydraulic gradient and cross sectional area will change as the excavation proceeds. As the excavation extends deeper below the water table, vertical hydraulic gradients

in shallower portions of the excavation will be diminished or will be downward as drawdown is increased to dewater deeper portions of the excavation. As a result, the area of upward flow to the excavation will diminish as the excavation extends deeper below the water table, but the upward hydraulic gradient in these areas will increase as greater drawdown is required to dewater these deeper portions of the excavation. The calculations presented in Attachment 3 reflect both the reduction in the area of upward flow and increased hydraulic gradients and a vertical seepage rate less than 1 gpm.

**Cumulative Groundwater Seepage Rate**

Based upon the results of the analysis, the cumulative groundwater seepage into the excavation from vertical and horizontal seepage was estimated to be up to approximately 20 gpm with no safety factor. It is prudent to apply a safety factor based upon the limited amount of hydraulic data, apparent variations in horizontal hydraulic conductivity as indicated by slug test analyses as well as other uncertainties. On this basis and consistent with recommendations presented in *United Facilities Criteria – Dewatering and Groundwater Control* (2004), a safety factor of 1.5 is appropriate. Therefore, it is a pump capable of pumping between 30 and 35 gpm is recommended for dewatering. The pump should be rated for a head of at least 30 feet or that is sufficient to pump water from the bottom of the deepest portion of the excavation to the point of discharge. It is recommended that an additional pump be available to account for any transmissive heterogeneities not identified by the borings should such heterogeneities be encountered during the excavation.

Figure 1 Geotechnical Boring Location Plan




APPROXIMATE GRAPHIC SCALE

0' 10' 20' 40'

LEGEND:

GEOTECHNICAL BORING

EXISTING MONITORING WELL

FORMER BUILDING FOOTPRINT

# 102 GREENWOOD STREET
# NEW BEDFORD, MASSACHUSETTS

## GEOTECHNICAL BORING LOCATION PLAN

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

| | |
|---|---|
| DRAWN BY: HWB | DATE: OCT 2014 |
| CHECKED BY: DWA | |

FIGURE 1

FILE: J:\Projects\115058 - New Bedford\ARP - RAM Plan MOD 2014\CAD\102 Greenwood Geotechnical Boring Plan.dwg

Attachment 1

Boring Logs and Geotechnical Lab Reports

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
Phone: 978-970-5600

# BORING/WELL CONSTRUCTION LOG

**CLIENT/PROJECT NUMBER** City of New Bedford/115058
**BORING/WELL NUMBER** 102EX2SB8-A1
**TRC GEOLOGIST** Zack Richards
**DRILLING CONTRACTOR/FOREMAN** Geosearch/Rodney Dean
**DATE DRILLED** 6/27/2013
**LOCATION** Approximately 5' east of 102EX2SB8-A
**SAMPLING METHOD** 2' Split Spoon
**DRILLING METHOD** HSA - CME 55
**NOTES** Sampled for PCBs (5-7').

**SCREEN TYPE/SLOT** N/A
**FILTER PACK TYPE** N/A
**SEAL TYPE** N/A
**DEPTH TO WATER (Approximate Feet)** Not Encountered
**TOTAL DEPTH (Feet)** 11
**GROUND ELEVATION (Feet)**
**REFERENCE ELEVATION (Feet)**

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | Sample Type/# | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 1 | | 12/10 | SS-1 | | 10" TOPSOIL. | | | No Monitoring Well Installed. |
| | 3 | 24/11 | SS-2 | | 3" Brown SILTY SAND, little subangular gravel, trace fill (coal). | | | |
| 2 | 3 | | | | 7" Tan fine-coarse SAND, little gravel. | OS: 0.0 | | |
| | 3 | | | | | | | |
| 3 | | | | | 1" Brown fine-coarse SAND, little silt and gravel. | | | |
| | 3 | 24/11 | SS-3 | | 8" Tan fine-coarse SAND, little silt and gravel. | | | |
| 4 | 3 | | | | | OS: 0.0 | | |
| | 4 | | | | 2" Tan SILT, some fine sand. | | | |
| 5 | | | | | 1" Tan fine-coarse SAND, little silt and gravel. | | | |
| | 2 | 24/14 | SS-4 | | 3" SLOUGH. | | | |
| 6 | 1 | | | | 5" Tan fine-medium SAND, some silt and coarse sand, little fine gravel, moist. | OS: 0.0 | 102EX2SB8-A1 (5-7) 1310 | |
| | 1 | | | | 6" FILL (ash, coal, rust, glass, clinker), moist. | | | |
| 7 | 1 | | | | | | | |
| | 4 | 24/16 | SS-5 | | 3" Dark Brown SILT (PEAT). | | | |
| 8 | 6 | | | | 2" Crushed STONE. | | | |
| | 6 | | | | 11" Brown to light gray SILT, some fine sand, trace gravel, dense. | OS: 0.0 | | |
| | 9 | | | | | | | |
| 9 | | 24/18 | SS-6 | | 5" Brown to light gray SILT, some fine sand, trace gravel, dense. | | | |
| 10 | | | | | 13" Tan fine-medium SAND, some coarse sand, little gravel (TILL). | OS: 0.0 | | |
| | 11 | | | | | | | |
| | 14 | | | | | | | |
| 11 | 18 | | | | End of Boring @ 11 feet | | | |
| | 21 | | | | | | | |

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
Phone: 978-970-5600

# BORING/WELL CONSTRUCTION LOG

**CLIENT/PROJECT NUMBER** City of New Bedford/115058
**BORING/WELL NUMBER** 102EX2SB8-A2
**TRC GEOLOGIST** Zack Richards
**DRILLING CONTRACTOR/FOREMAN** Geosearch/Rodney Dean
**DATE DRILLED** 6/27/2013
**LOCATION** Approximately 5' north of 102EX2SB8-A
**SAMPLING METHOD** 2' Split Spoon
**DRILLING METHOD** HSA - CME 55
**NOTES** Sampled for PCBs (5-7').

**SCREEN TYPE/SLOT** N/A
**FILTER PACK TYPE** N/A
**SEAL TYPE** N/A
**DEPTH TO WATER (Approximate Feet)** Not Encountered
**TOTAL DEPTH (Feet)** 11
**GROUND ELEVATION (Feet)**
**REFERENCE ELEVATION (Feet)**

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | Sample Type/# | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| | | 12/9 | SS-1 | | 9" TOPSOIL. | | | |
| 1 | 5 | 24/12 | SS-2 | | 5" Brown SILTY SAND, some fill (ash, coal, glass), trace gravel. | | | |
| 2 | 4 3 3 | | | | 7" FILL (rust, glass, ash, coal) in brown fine sand and silt. | OS: 0.0 | | |
| 3 | 3 | 24/6 | SS-3 | | 6" FILL (glass, rust, coal, ash, clinker). | | | No Monitoring Well Installed. |
| 4 | 1 1 1 | | | | | OS: 0.0 | | |
| 5 | 1 | 24/7 | SS-4 | | 7" FILL (glass, rust, coal ash, coal, rubber) in brown silty sand. | | | |
| 6 | 1 1 1 | | | | | HS: 2.8 | 102EX2SB8-A2 (5-7) 1340 | |
| 7 | 70 | 24/12 | SS-5 | | 1" FILL (glass, rust, coal ash, coal, rubber) in brown silty sand. | | | |
| 8 | 49 21 18 | | | | 8" Crushed STONE. | OS: 0.0 | | |
| 9 | | | | | 3" Fine-coarse SAND, little gravel, dense (TILL). | | | |
| 10 | 20 14 17 25 | 24/18 | SS-6 | | 12" Fine-coarse SAND, little gravel, dense (TILL). | OS: 0.0 | | |
| 11 | | | | | 6" Orange fine-coarse SAND, some gravel (high iron content). | | | |
| | | | | | End of Boring @ 11 feet | | | |

650 Suffolk Street
Lowell, MA
Telephone: 978-970-5600
Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

**CLIENT/PROJECT NUMBER** 102 Greenwood St/115058
**BORING/WELL NUMBER** GT-1
**TRC GEOLOGIST** Jamie Stapleton
**DRILLING CONTRACTOR/FOREMAN** Geologic/CME-75 auger/Dave Sheldon
**DATE DRILLED** 6/16/2014
**LOCATION** 102 Greenwood St
**SAMPLING METHOD** 24" Spoon
**DRILLING METHOD** HSA (0-27'), Drive & Wash (27-34'), automatic SPT hammer
**NOTES** Geotechnical samples submitted for grain size analysis.

**SCREEN TYPE/SLOT** NA
**FILTER PACK TYPE** NA
**SEAL TYPE** NA
**DEPTH TO WATER (Approximate Feet)** 14
**TOTAL DEPTH (Feet)** 36
**GROUND ELEVATION (Feet)** 91
**REFERENCE ELEVATION (Feet)** NA

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 0 | 2 | 24/12 | SS-S-1 | | Dark brown, loose, dry, fine to medium SAND, cinders, ash, little glass (FILL). | NA | | |
| 1 | 2 | | | | | | | |
| | 2 | | | | | | | |
| 2 | 2 | | | | | | | No Monitoring Well Installed |
| | 6 | 24/11 | SS-S-2 | | | | | |
| 3 | 3 | | | | | | | |
| | 3 | | | | | | | |
| 4 | 3 | | | | | | | |
| | 2 | 24/9 | SS-S-3 | | | | | |
| 5 | 2 | | | | | | | |
| | 2 | | | | | | | |
| 6 | 2 | | | | | | | |
| | 4 | 24/10 | SS-S-4 | | | | | |
| 7 | 2 | | | | Brown to gray, medium dense, dry, SILT, some clay, trace fine sand (ML). | | | |
| | 3 | | | | | | | |
| 8 | 4 | | | | | | | |
| | 7 | 24/18 | SS-S-5 | | | | | |
| 9 | 5 | | | | | | | |
| | 5 | | | | | | | |
| 10 | 4 | | | | | | | |
| | 3 | 24/20 | SS-S-6 | | | | | |
| 11 | 9 | | | | | | | |
| | 17 | | | | Brown, medium dense to dense, dry to wet, fine to medium SAND, little to some silt, trace coarse sand and gravel (SM). | | | |
| 12 | 24 | | | | | | | |
| | 33 | 24/20 | SS-S-7 | | | | | |
| 13 | 31 | | | | | | | |
| | 28 | | | | | | | |
| 14 | 22 | | | | | | | ▽ |
| 15 | | | | | | | | |
| | 14 | 36/15 | SS-S-8 | | | | | |
| 16 | 11 | | | | | | | |
| | 20 | | | | | | | |
| 17 | 24 | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

650 Suffolk Street
Lowell, MA
Telephone: 978-970-5600
Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

**BORING/WELL NUMBER** GT-1
**DATE DRILLED** 6/16/2014

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 21 | 3<br>6<br>7<br>10 | 60/13 | SS-S-9 | | Brown, medium dense to dense, dry to wet, fine to medium SAND, little to some silt, trace coarse sand and gravel (SM). | NA | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | 6<br>12<br>20<br>15 | 60/16 | SS-S-10 | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | 41<br>18<br>31<br>32 | 48/3 | SS-S-11 | | | | | |
| 30 | | | | | | | | |
| 31 | 32<br>30<br>21<br>23 | 24/19 | SS-S-12 | | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | 25<br>14<br>12<br>21 | 36/10 | SS-S-13 | | | | | |
| 35 | | | | | | | | |
| 36 | | | | | End of Boring 36 feet. | | | |

650 Suffolk Street
Lowell, MA
Telephone: 978-970-5600
Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

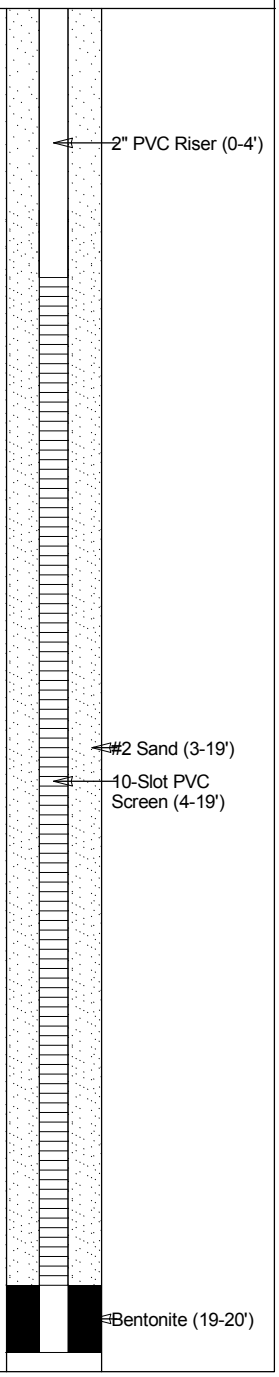
**CLIENT/PROJECT NUMBER** 102 Greenwood St/115058
**BORING/WELL NUMBER** GT-2 / MW-GT-2S
**TRC GEOLOGIST** Jason Fiero
**DRILLING CONTRACTOR/FOREMAN** Geologic/John
**DATE DRILLED** 9/12/2014 & 9/15/2014
**LOCATION** 102 Greenwood St
**SAMPLING METHOD** 24" Spoon
**DRILLING METHOD** Drive&wash CME-75 auger, automatic SPT hammer

**SCREEN TYPE/SLOT** PVC/2"/0.010-slot
**FILTER PACK TYPE** #2 Sand
**SEAL TYPE** Bentonite
**DEPTH TO WATER (Approximate Feet)** 11.5-12'
**TOTAL DEPTH (Feet)** 38.5
**GROUND ELEVATION (Feet)** 91
**REFERENCE ELEVATION (Feet)** NA

**NOTES** Geotechnical samples submitted for grain size analysis/sieve tests and vertical permeability testing. Wells are nested. 6" Borehole diameter.

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME |
|---|---|---|---|---|---|---|---|
| 0–1 | 5 9 7 9 | 24/22 | SS-1 | | 0-6" Brown SILT LOAM, little fine sand.<br>6-11" Tan fine SAND, some silt and sub-rounded gravel.<br>11-22" Orange to black FILL (silt, ash, glass, metal fragments), dry. | 0.0 | |
| 2–3 | 4 3 2 2 | 24/28 | SS-2 | | 0-18" Orange to black FILL (silt, ash, glass, metal fragments), dry. Moist at 3.5-4 feet with abundant ash and trace fine sand. | 0.5 | |
| 4–5 | 4 4 3 3 | 24/12 | SS-3 | | 0-12" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet. | 1.2 | |
| 6–7 | 6 2 6 7 | 24/18 | SS-4 | | 0-7" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet.<br>7-17" Black organic SILT and PEAT deposits. | 4.1 | |
| 8–9 | 18 11 8 7 | 24/19 | SS-5 | | 17-18" Gray fine SAND and SILT, little 1/8-1/4" sub-rounded gravel.<br>0-19" Gray to brown SILT and fine SAND, little to trace medium sand seams. | 0.2 | |
| 10–11 | 20 24 32 21 | 24/18 | SS-6 | | 0-6" Gray brown fine SAND, some to little silt and medium to coarse sand, medium dense.<br>6-18" Tan to orange brown fine to coarse SAND, some 1/8-3/4" sub-angular to angular gravel, little trace silt. Saturated groundwater table at ~ 11.5-12 feet. | 0.0 | |
| 12–13 | 29 44 52 64 | 24/20 | SS-7 | | 0-16" Brown running SILTY fine SAND. | 0.5 | |
| 14–15 | 27 49 52 32 | 24/15 | SS-8 | | 16-20" Gray to orange brown fine to coarse SAND, some 1/8-1/2" sub-angular gravel, trace silt.<br>0-12" Grey to orange brown fine to coarse SAND, some to little silt and 1/8-1" Sub-angular to angular gravel. | 0.0 | GT-2/SS-8 (15-16') |
| 16–17 | 30 21 35 38 | 24/8 | SS-9 | | 12-15" Fractured BOULDERS and COBBLES.<br>0-6" Tan gray brown fine to medium SAND, some silt, coarse sand, and angular to sub-angular 1/8-1/2" gravel. | | |
| 18–19 | 21 16 18 29 | 24/12 | SS-10 | | 6-8" Light brown to gray 1/2" sub-angular GRAVEL and medium SAND.<br>0-2" Gray GNEISS fragments, angular white-grey black moderately foliated.<br>2-10" Tan fine SAND, little medium sand and fine 1/16-1/8" sub-rounded gravel. | ND | |
| 20 | | | | | | | |

WELL DIAGRAM



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# BORING/WELL CONSTRUCTION LOG

**BORING/WELL NUMBER** GT-2 / MW-GT-2S
**DATE DRILLED** 9/12/2014 & 9/15/2014

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|
| 21 | 24<br>21<br>15<br>18 | 24/10 | SS-11 | | 10-12" Gray to brown sub-angular to sub-rounded 1/8-1" GRAVEL.<br>0-10" Brown medium to coarse SAND and 1/8-1/4" Sub-angular to sub-rounded GRAVEL, little trace fine sand. | ND | GT-2/SS-11 (21-22') | |
| 22 | | | | | 10-12" White-gray GNEISS rock. | | | |
| 23 | 8<br>14<br>12<br>18 | 24/12 | SS-12 | | 0-8" Tan to brown fine to coarse SAND, trace 1/4"-1/2" sub-angular to sub-rounded gravel.<br>8-10" Tan to brown fine SAND. | ND | | |
| 24 | | | | | 10-12" Gray weathered/fractured ROCK. | | | |
| 25 | 29<br>20<br>12<br>10 | 24/8 | SS-13 | | 0-1.5" White to gray fractured GNEISS.<br>1.5-6.5" Brown fine to medium SAND, some little 1/4-3/4" angular gravel. | ND | | |
| 26 | | | | | 6.5-8" White gray black foliated GNEISS and angular Rock fragments. | | | |
| 27 | 10<br>12<br>18<br>30 | 24/14 | SS-14 | | 0-12.5" Brown fine to coarse SAND, some 1/8-1/2" angular to sub-angular gravel. | ND | | |
| 28 | | | | | 12.5-14" White to gray-white ROCK fragments. | | | |
| 29 | 12<br>14<br>13<br>17 | 24/18 | SS-15 | | 0-3" Coarse SAND and 1/8-1/4" angular GRAVEL<br>3-6" Brown fine to coarse SAND, little 1/8" sub-angular to angular gravel, trace silt.<br>6-10" Brown medium to coarse SAND, little fine sand and 1/8-1/4" sub-angular to angular gravel. | ND | | |
| 30 | | | | | 10-18" Brown fine SAND, some silt, little 1/8-1/4" sub-angular to angular gravel.<br>Drive and wash to 34 feet. | | | |
| 34 | 15<br>8<br>9<br>6 | 24/6 | SS-16 | | 0-4" Coarse SAND and 1/8-1/2" angular GRAVEL. | ND | | |
| 35 | | | | | 4-6" Angular pieces of GRANODIORITE with large pink plagioclase feldspar phenocrysts.<br>Drive and wash to 38.5 feet. | | | |
| 38 | | | | | End of Boring @ 38.5 feet. | | | |

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# BORING/WELL CONSTRUCTION LOG

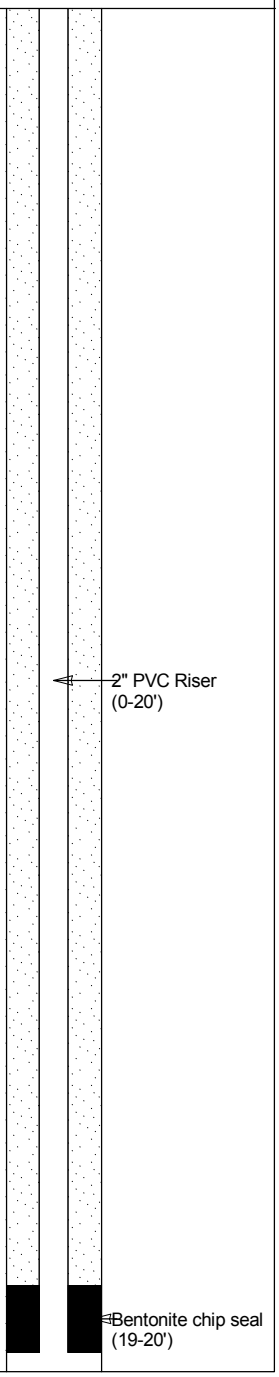
**CLIENT/PROJECT NUMBER** 102 Greenwood St/115058
**BORING/WELL NUMBER** GT-2 / MW-GT-2D
**TRC GEOLOGIST** Jason Fiero
**DRILLING CONTRACTOR/FOREMAN** Geologic/John
**DATE DRILLED** 9/12/2014 & 9/15/2014
**LOCATION** 102 Greenwood St
**SAMPLING METHOD** 24" Spoon
**DRILLING METHOD** Drive&wash CME-75 auger, automatic SPT hammer

**SCREEN TYPE/SLOT** PVC/2"/0.010-slot
**FILTER PACK TYPE** #2 Sand
**SEAL TYPE** Bentonite
**DEPTH TO WATER (Approximate Feet)** 11.5-12'
**TOTAL DEPTH (Feet)** 38.5
**GROUND ELEVATION (Feet)** 91
**REFERENCE ELEVATION (Feet)** NA

**NOTES** Geotechnical samples submitted for grain size analysis/sieve tests and vertical permeability testing. Wells are nested. 6" Borehole diameter.

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME |
|---|---|---|---|---|---|---|
| 0–1 | 5 9 7 9 | 24/22 | SS-1 | 0-6" Brown SILT LOAM, little fine sand.<br>6-11" Tan fine SAND, some silt and sub-rounded gravel.<br>11-22" Orange to black FILL (silt, ash, glass, metal fragments), dry. | 0.0 | |
| 2–3 | 4 3 2 2 | 24/28 | SS-2 | 0-18" Orange to black FILL (silt, ash, glass, metal fragments), dry. Moist at 3.5-4 feet with abundant ash and trace fine sand. | 0.5 | |
| 4–5 | 4 4 3 3 | 24/12 | SS-3 | 0-12" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet. | 1.2 | |
| 6–7 | 6 2 6 7 | 24/18 | SS-4 | 0-7" Orange brown to black FILL (ash, glass, metal fragments, wood, coal fragments), moist to wet.<br>7-17" Black organic SILT and PEAT deposits. | 4.1 | |
| 8–9 | 18 11 8 7 | 24/19 | SS-5 | 17-18" Gray fine SAND and SILT, little 1/8-1/4" sub-rounded gravel.<br>0-19" Gray to brown SILT and fine SAND, little to trace medium sand seams. | 0.2 | |
| 10–11 | 20 24 32 21 | 24/18 | SS-6 | 0-6" Gray brown fine SAND, some to little silt and medium to coarse sand, medium dense.<br>6-18" Tan to orange brown fine to coarse SAND, some 1/8-3/4" sub-angular to angular gravel, little trace silt. Saturated groundwater table at ~ 11.5-12 feet. | 0.0 | |
| 12–13 | 29 44 52 64 | 24/20 | SS-7 | 0-16" Brown running SILTY fine SAND. | 0.5 | |
| 14–15 | 27 49 52 32 | 24/15 | SS-8 | 16-20" Gray to orange brown fine to coarse SAND, some 1/8-1/2" sub-angular gravel, trace silt.<br>0-12" Grey to orange brown fine to coarse SAND, some to little silt and 1/8-1" Sub-angular to angular gravel. | 0.0 | GT-2/SS-8 (15-16') |
| 16–17 | 30 21 35 38 | 24/8 | SS-9 | 12-15" Fractured BOULDERS and COBBLES.<br>0-6" Tan gray brown fine to medium SAND, some silt, coarse sand, and angular to sub-angular 1/8-1/2" gravel. | | |
| 18–19 | 21 16 18 29 | 24/12 | SS-10 | 6-8" Light brown to gray 1/2" sub-angular GRAVEL and medium SAND.<br>0-2" Gray GNEISS fragments, angular white-grey black moderately foliated.<br>2-10" Tan fine SAND, little medium sand and fine 1/16-1/8" sub-rounded gravel. | ND | |
| 20 | | | | | | |

WELL DIAGRAM



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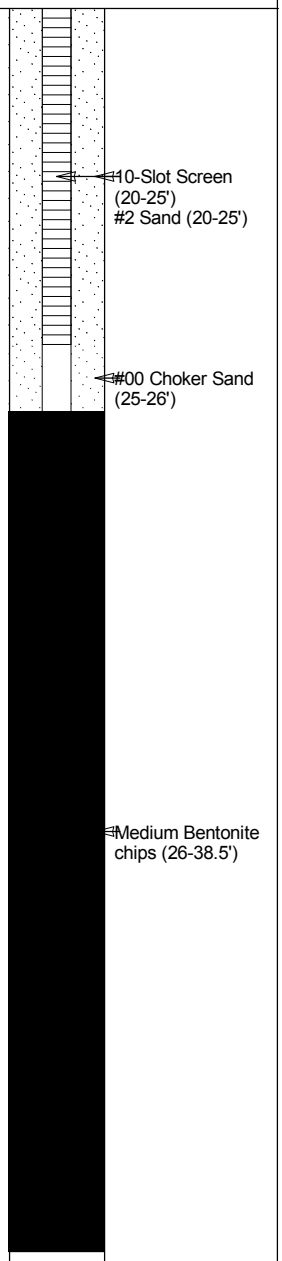
# BORING/WELL CONSTRUCTION LOG

**BORING/WELL NUMBER** GT-2 / MW-GT-2D
**DATE DRILLED** 9/12/2014 & 9/15/2014

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | Field Testing (ppm) | SAMPLE ID/ TIME |
|---|---|---|---|---|---|---|---|
| 21 | 24<br>21<br>15<br>18 | 24/10 | SS-11 | | 10-12" Gray to brown sub-angular to sub-rounded 1/8-1" GRAVEL.<br>0-10" Brown medium to coarse SAND and 1/8-1/4" Sub-angular to sub-rounded GRAVEL, little trace fine sand. | ND | GT-2/SS-11 (21-22') |
| 22 | | | | | 10-12" White-gray GNEISS rock. | | |
| 23 | 8<br>14<br>12<br>18 | 24/12 | SS-12 | | 0-8" Tan to brown fine to coarse SAND, trace 1/4"-1/2" sub-angular to sub-rounded gravel.<br>8-10" Tan to brown fine SAND. | ND | |
| 24 | | | | | 10-12" Gray weathered/fractured ROCK. | | |
| 25 | 29<br>20<br>12<br>10 | 24/8 | SS-13 | | 0-1.5" White to gray fractured GNEISS.<br>1.5-6.5" Brown fine to medium SAND, some little 1/4-3/4" angular gravel. | ND | |
| 26 | | | | | 6.5-8" White gray black foliated GNEISS and angular Rock fragments. | | |
| 27 | 10<br>12<br>18<br>30 | 24/14 | SS-14 | | 0-12.5" Brown fine to coarse SAND, some 1/8-1/2" angular to sub-angular gravel. | ND | |
| 28 | | | | | 12.5-14" White to gray-white ROCK fragments. | | |
| 29 | 12<br>14<br>13<br>17 | 24/18 | SS-15 | | 0-3" Coarse SAND and 1/8-1/4" angular GRAVEL<br>3-6" Brown fine to coarse SAND, little 1/8" sub-angular to angular gravel, trace silt.<br>6-10" Brown medium to coarse SAND, little fine sand and 1/8-1/4" sub-angular to angular gravel. | ND | |
| 30 | | | | | 10-18" Brown fine SAND, some silt, little 1/8-1/4" sub-angular to angular gravel.<br>Drive and wash to 34 feet. | | |
| 34 | 15<br>8<br>9<br>6 | 24/6 | SS-16 | | 0-4" Coarse SAND and 1/8-1/2" angular GRAVEL. | ND | |
| 36 | | | | | 4-6" Angular pieces of GRANODIORITE with large pink plagioclase feldspar phenocrysts.<br>Drive and wash to 38.5 feet. | | |
| 38 | | | | | End of Boring @ 38.5 feet. | | |




WELL DIAGRAM

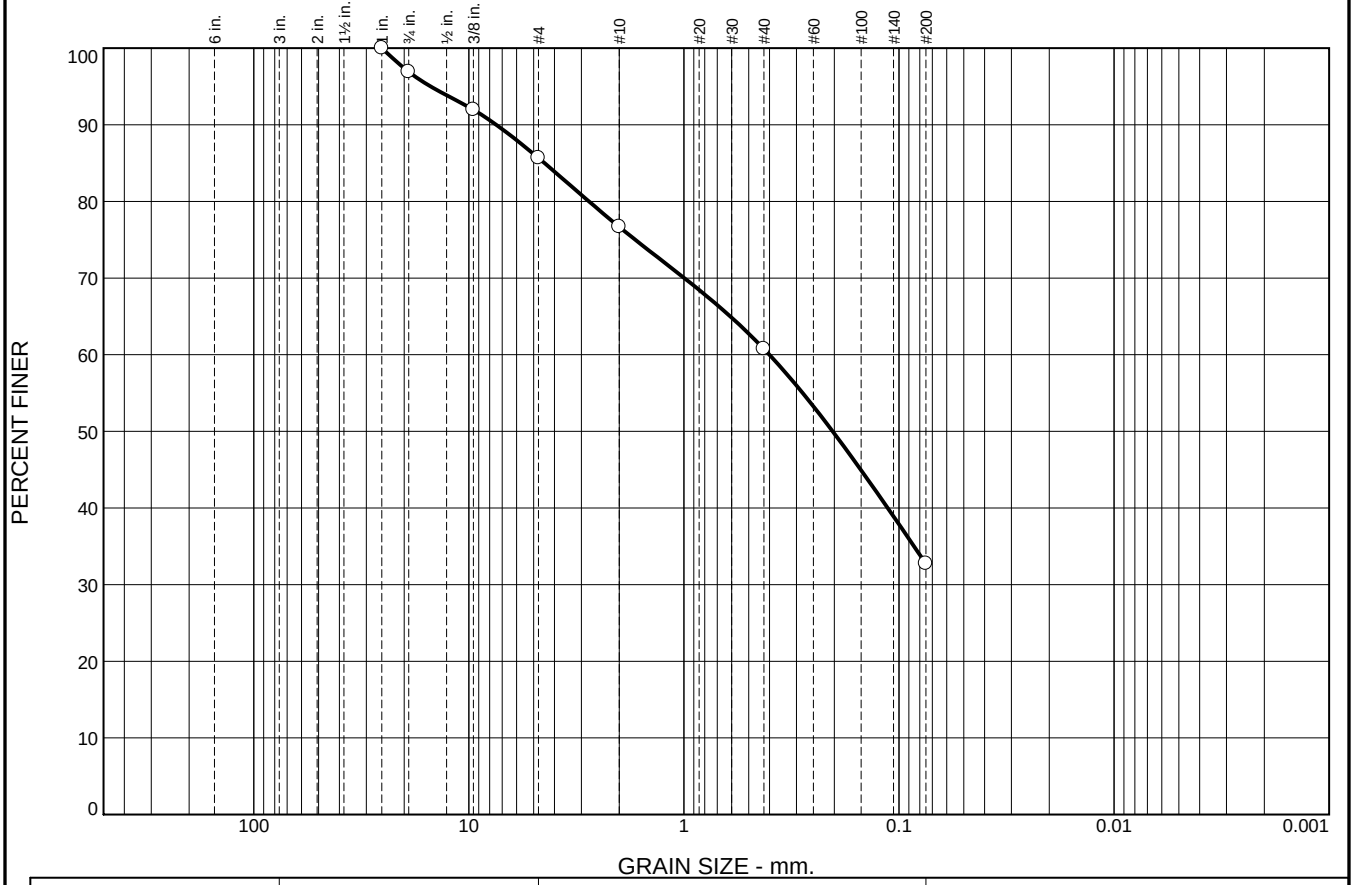
# SUMMARY OF LABORATORY TEST DATA

Project Name: 102 Grenwood Street, City of New Bedford
Client Name: City of New Bedford
TRC Project #: 115058

| SAMPLE IDENTIFICATION | | Soil Group (USCS System) | GRAIN SIZE DISTRIBUTION | | | | Moisture Content (%) |
|---|---|---|---|---|---|---|---|
| Source # | Depth (ft) | | Gravel (%) | Sand (%) | Silt (%) | Clay (%) | |
| GT-1 | 15.0-17.0 | SM | 14.3 | 53.0 | 32.7 | | 10.1 |
| | 20.0-22.0 | SM | 19.0 | 65.3 | 15.7 | | 11.8 |

DRAWN BY: TBT 09/08/14 CHECKED BY: PWK 09/08/14

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 3.1 | 11.2 | 9.0 | 15.9 | 28.1 | 32.7 | |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 4.4488 | 0.4007 | 0.2034 | | | | | |

| MATERIAL DESCRIPTION | TEST DATE | USCS | NM |
|---|---|---|---|
| ○ BROWN-GRAY SILTY SAND | 09/04/14 | SM | 10.1 |

**Project No.** 115058 **Client:** CITY OF NEW BEDFORD

**Project:** 102 GRENWOOD STREET, CITY OF NEW BEDFORD

○ **Source of Sample:** GT-1 **Depth:** 15.0-17.0 FT

**Remarks:**
○SAMPLE DESCRIPTION BASED ON USCS

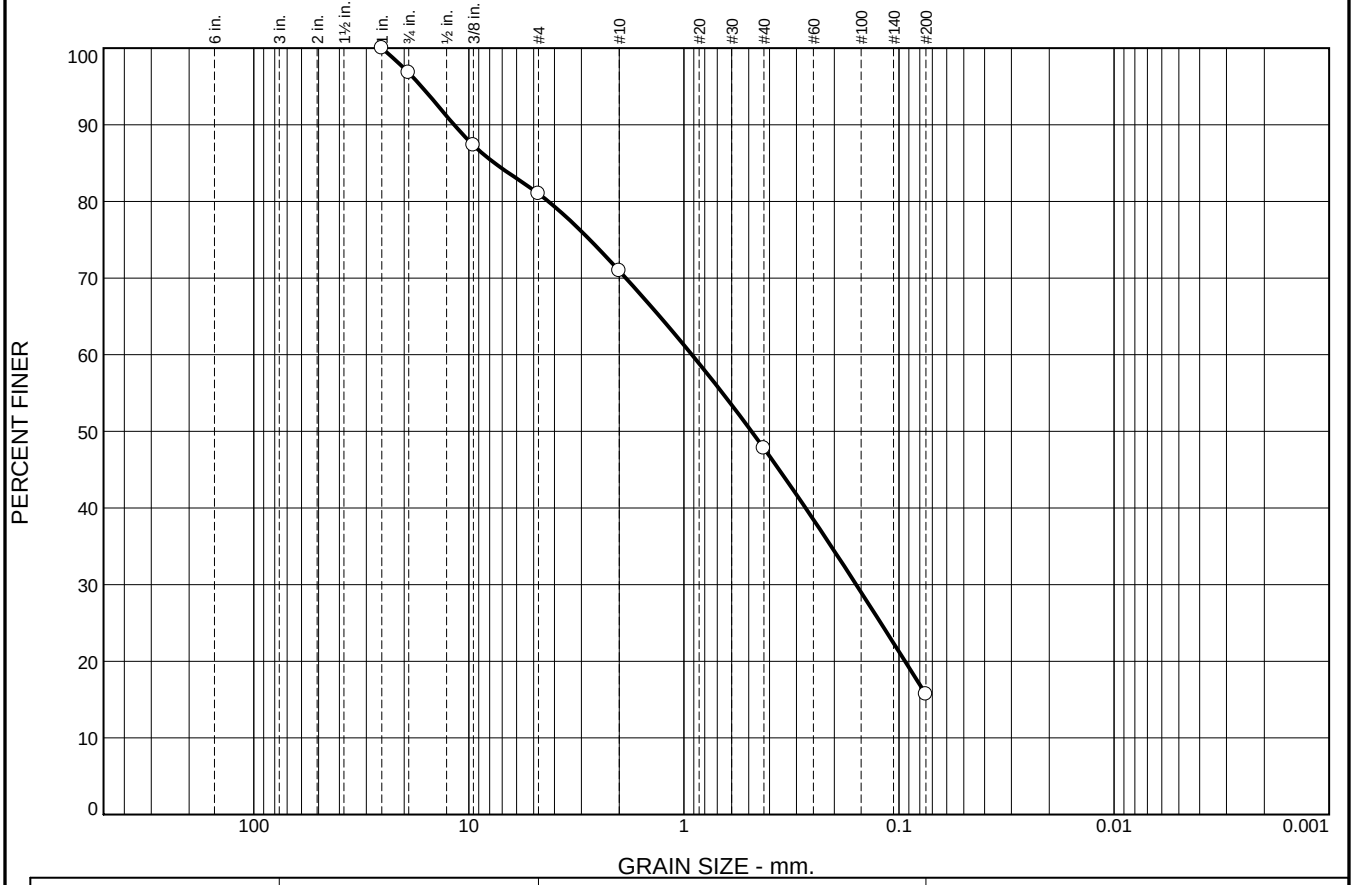
**TRC Engineers, Inc.**

**Mt. Laurel, NJ**

**Figure** 1

**Tested By:** TBT 09/04/14 **Checked By:** PWK 09/08/14

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 3.2 | 15.8 | 10.1 | 23.1 | 32.1 | 15.7 | |
| | | | | | | | | |
| | | | | | | | | |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 7.5902 | 0.9182 | 0.4851 | 0.1582 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| MATERIAL DESCRIPTION | TEST DATE | USCS | NM |
|---|---|---|---|
| ○ BROWN SILTY SAND WITH GRAVEL | 09/04/14 | SM | 11.8 |

**Project No.** 115058 **Client:** CITY OF NEW BEDFORD

**Project:** 102 GRENWOOD STREET, CITY OF NEW BEDFORD

○ **Source of Sample:** GT-1 **Depth:** 20.0-22.0 FT

**Remarks:**
○SAMPLE DESCRIPTION BASED ON USCS

**TRC Engineers, Inc.**

**Mt. Laurel, NJ**

**Figure** 2

**Tested By:** TBT 09/04/14 **Checked By:** PWK 09/08/14

# SUMMARY OF LABORATORY TEST DATA

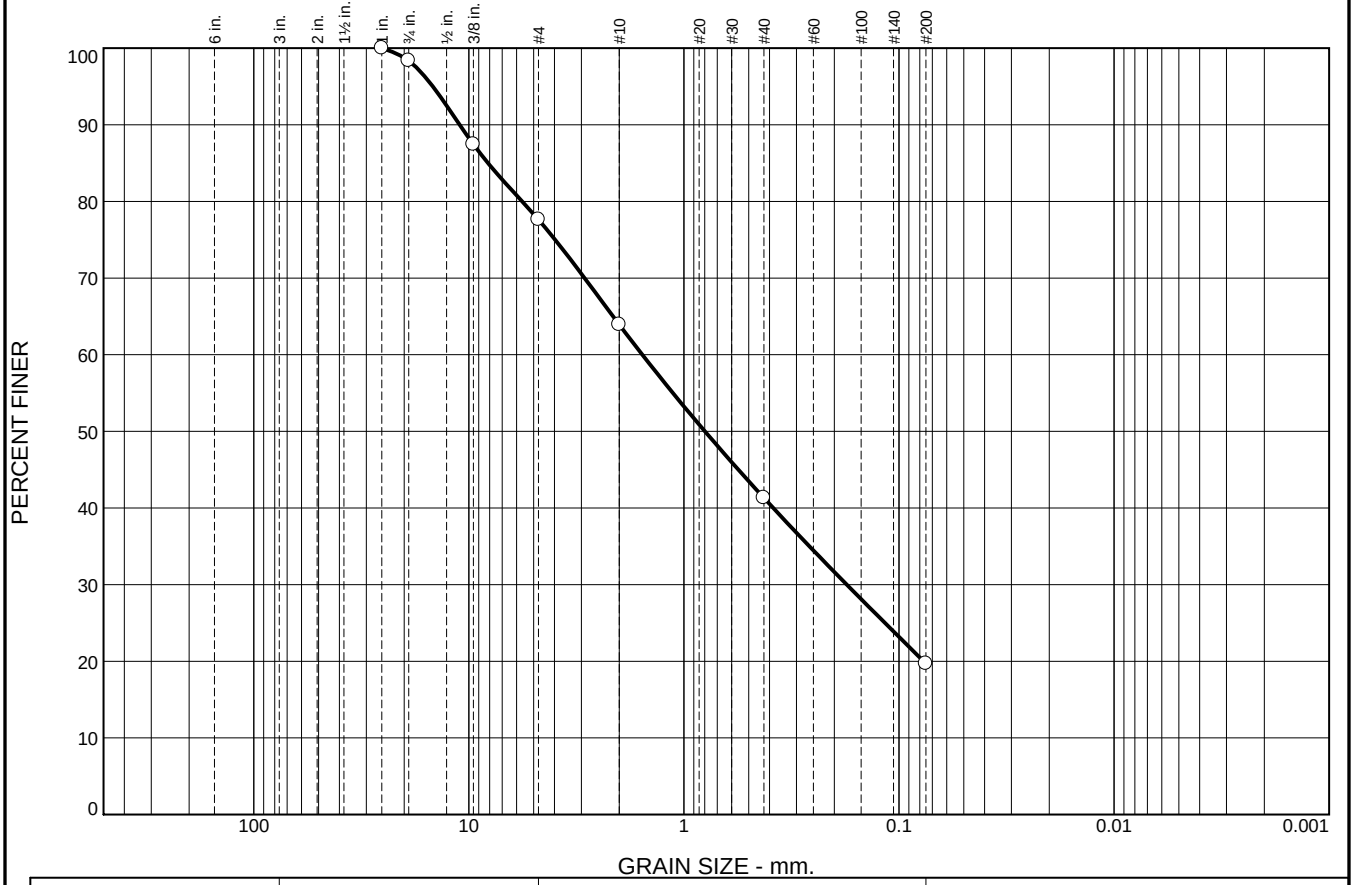
Project Name: 102 Grenwood Street, City of New Bedford
Client Name: City of Bedford
TRC Project #: 115058

| SAMPLE IDENTIFICATION | | | Soil Group (USCS System) | GRAIN SIZE DISTRIBUTION | | | | Moisture Content (%) | Dry Unit Weight (PCF) | Permeability Rate (in/hr) |
|---|---|---|---|---|---|---|---|---|---|---|
| Boring # | Sample # | Depth (ft) | | Gravel (%) | Sand (%) | Silt (%) | Clay (%) | | | |
| GT-2 | SS-8 | 15.0-16.0 | SM | 22.4 | 57.9 | 19.7 | | 6.1 | - | - |
| | SS-11 | 21.0-22.0 | SP-SM | 34.6 | 55.5 | 9.9 | | 7.9 | 122.3 | 0.13 |

DRAWN BY: TBT 10/03/14

CHECKED BY: JPB 10/06/14

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 1.6 | 20.8 | 13.7 | 22.6 | 21.6 | 19.7 | |
| | | | | | | | | |
| | | | | | | | | |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 8.1482 | 1.5613 | 0.7988 | 0.1749 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| MATERIAL DESCRIPTION | TEST DATE | USCS | NM |
|---|---|---|---|
| ○ BROWN SILTY SAND WITH GRAVEL | 10/03/14 | SM | 6.1 |

**Project No.** 115058 **Client:** CITY OF NEW BEDFORD

**Project:** 102 GRENWOOD STREET, CITY OF NEW BEDFORD

○ **Source of Sample:** GT-2 **Depth:** 15.0-16.0 FT **Sample Number:** SS-8

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**Mt. Laurel, NJ**

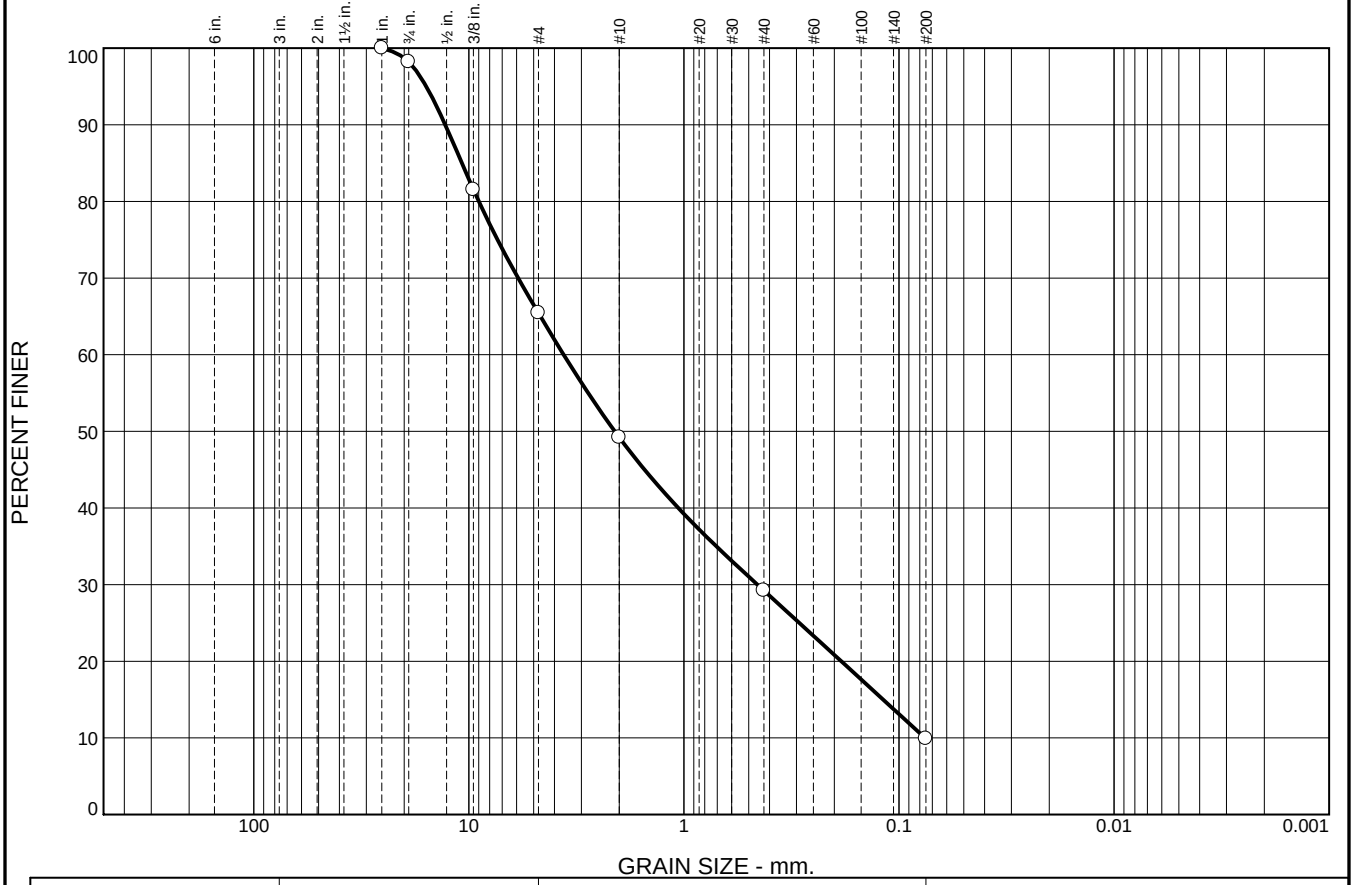
**Remarks:**

○SAMPLE DESCRIPTION BASED ON USCS

**Figure** 1

**Tested By:** TBT 10/03/14 **Checked By:** DA 10/06/14

# Particle Size Distribution Report




| | % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|---|
| | | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| ○ | 0.0 | 1.8 | 32.8 | 16.2 | 20.0 | 19.3 | 9.9 | |
| | | | | | | | | |
| | | | | | | | | |

| | LL | PL | $D_{85}$ | $D_{60}$ | $D_{50}$ | $D_{30}$ | $D_{15}$ | $D_{10}$ | $C_c$ | $C_u$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ○ | | | 10.7790 | 3.6234 | 2.0973 | 0.4551 | 0.1185 | 0.0757 | 0.76 | 47.89 |
| | | | | | | | | | | |
| | | | | | | | | | | |

| MATERIAL DESCRIPTION | TEST DATE | USCS | NM |
|---|---|---|---|
| ○ BROWN SAND WITH SILT AND GRAVEL | 10/03/14 | SP-SM | 7.9 |

**Project No.** 115058 **Client:** CITY OF NEW BEDFORD

**Project:** 102 GRENWOOD STREET, CITY OF NEW BEDFORD

○ **Source of Sample:** GT-2 **Depth:** 21.0-22.0 FT **Sample Number:** SS-11

**Remarks:**
○SAMPLE DESCRIPTION BASED ON USCS

**TRC Engineers, Inc.**

**Mt. Laurel, NJ**

**Figure** 2

**Tested By:** TBT 10/03/14 **Checked By:** DA 10/06/14

# TUBE PERMEAMETER TEST DATA

Project Name: 102 GRENWOOD STREET, CITY OF BEDFORD
Client Name: CITY OF BEDFORD
TRC Project # 115058.0000

Boring # GT-2
Sample # SS-11
Sample Depth, ft: 21.0-22.0

Date Tested: 10/2/2014

*Remarks: Sample Recompacted into mold*

2. Sample Dimensions:

I.R. Sample Tube, R (in): 0.94
Length of Sample, L (in): 4.42

3. Standpipe Used: ____ No x Yes

Internal Radius, r (in): 0.20

4. Height of Water Level Above Rim of Test Basin, in

Beginning of Test, $H_{-1}$: 20.63
End of Test, $H_2$: 19.63

5. Rate of Water Level Drop

| Time, Start of Test Interval, $t_1$ | Time, End of Test, Interval, $t_2$ | Length of Test Interval, t (min) |
|---|---|---|
| 10:00:00 AM | 10:04:44 AM | 4.73 |
| 10:05:00 AM | 10:09:26 AM | 4.43 |
| 10:10:00 AM | 10:14:27 AM | 4.45 |
| 10:15:00 AM | 10:19:26 AM | 4.43 |
| 10:20:00 AM | 10:24:26 AM | 4.43 |
| 10:25:00 AM | 10:29:26 AM | 4.43 |
| 10:30:00 AM | 10:34:26 AM | 4.43 |
| 10:35:00 AM | 10:39:26 AM | 4.43 |

6. Calculation of Permeability

$K\ (in/h) = 60\ min/hr \times r^2/R^2 \times L\ (in)/t(min) \times \ln(H_1/H_2) =$ 0.13

**All testing completed in general accordance with NJ Stormwater BMP Manual, Appendix E, B3: Tube Permeameter Test Methodology*

Attachment 2

Slug Test Aqtesolv Plots

**Rising Head Slug Test - MW-36**
**Greenwood Street - New Bedford, MA**

**Test Date:** 9/21/2014 10:33

**Well Data**

2" ID MW Set in 3" ID geoprobe boring

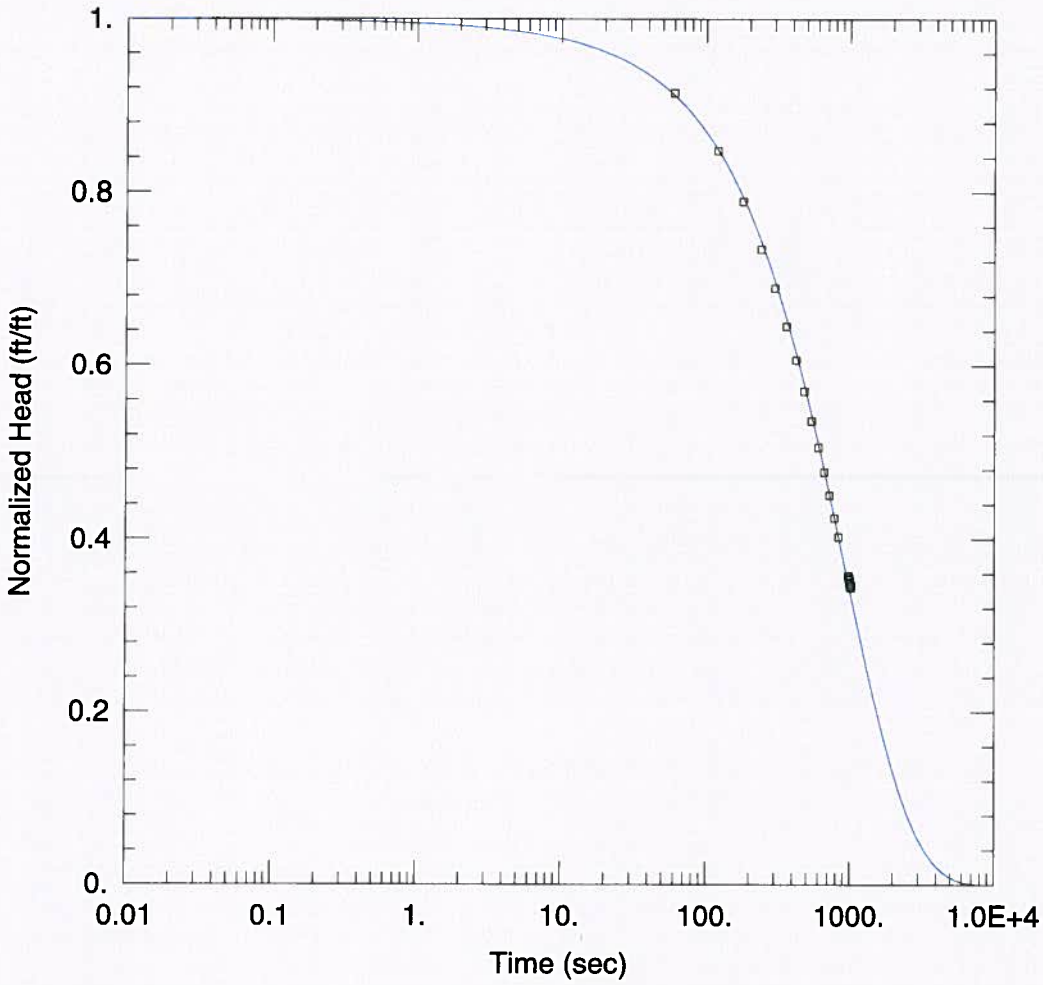
| | |
|---|---|
| Static Water Level (ft btoc): | 12.22 |
| Depth of Top of Screen below SWL, d (ft): | 0 |
| Depth of Well Penetration below GW, H (ft): | 5.3 |
| Screen Length Exposed to GW (ft): | 5.3 |
| Casing radius, $r_c$ (ft): | 0.083 |
| Borehole Radius, $r_w$ (ft): | 0.125 |

**Aquifer Data**

Saturated Thickness, b (ft): 21.8

SLUG USED - standard diposable bailer 3' long x 1.6" diam.

| Time | Elapsed Time (seconds) | Sensor: PCTD 69ft SN#: 168956 Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 10:35:50 | 0 | 4.181615 | | |
| 10:36:50 | 60 | 3.028146 | 0 | 1.15 |
| 10:37:50 | 120 | 3.126697 | 60 | 1.05 |
| 10:38:50 | 180 | 3.203406 | 120 | 0.98 |
| 10:39:50 | 240 | 3.270842 | 180 | 0.91 |
| 10:40:50 | 300 | 3.334641 | 240 | 0.85 |
| 10:41:50 | 360 | 3.386421 | 300 | 0.80 |
| 10:42:50 | 420 | 3.437371 | 360 | 0.74 |
| 10:43:50 | 480 | 3.481953 | 420 | 0.70 |
| 10:44:50 | 540 | 3.523696 | 480 | 0.66 |
| 10:45:50 | 600 | 3.563222 | 540 | 0.62 |
| 10:46:50 | 660 | 3.598357 | 600 | 0.58 |
| 10:47:50 | 720 | 3.631136 | 660 | 0.55 |
| 10:48:50 | 780 | 3.661731 | 720 | 0.52 |
| 10:49:50 | 840 | 3.692339 | 780 | 0.49 |
| 10:50:50 | 900 | 3.717363 | 840 | 0.46 |
| 10:53:10 | 1040 | 3.76931 | 980 | 0.41 |
| 10:53:15 | 1045 | 3.76996 | 985 | 0.41 |
| 10:53:20 | 1050 | 3.77257 | 990 | 0.41 |
| 10:53:25 | 1055 | 3.77307 | 995 | 0.41 |
| 10:53:30 | 1060 | 3.77424 | 1000 | 0.41 |
| 10:53:35 | 1065 | 3.77786 | 1005 | 0.40 |
| 10:53:40 | 1070 | 3.77919 | 1010 | 0.40 |
| 10:53:46 | 1076 | 3.78346 | 1016 | 0.40 |
| 10:53:51 | 1081 | 3.78176 | 1021 | 0.40 |
| 10:53:56 | 1086 | 3.78098 | 1026 | 0.40 |
| 10:54:00 | 1090 | 3.78554 | 1030 | 0.40 |




## RISING HEAD TEST

Data Set: S:\...\MW36 KGS RH.aqt
Date: 10/09/14 Time: 15:29:15

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-36
Test Date: September 2014

## AQUIFER DATA

Saturated Thickness: 21.8 ft

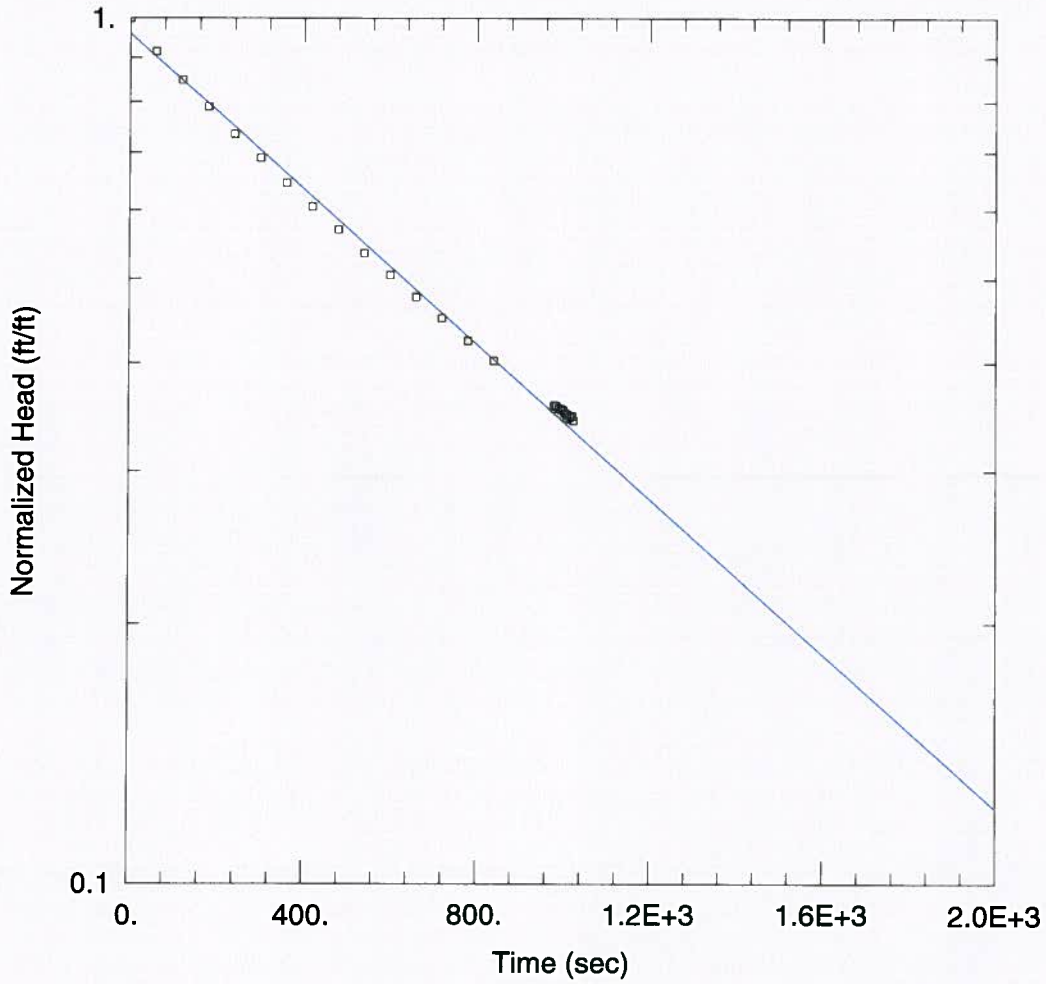
## WELL DATA (MW-36)

Initial Displacement: 1.153 ft
Total Well Penetration Depth: 5.3 ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.125 ft
Static Water Column Height: 12.3 ft
Screen Length: 5.3 ft
Well Radius: 0.125 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 5.845E-5 cm/sec
Kz/Kr = 1.
Ss' = 1.0E-10 $ft^{-1}$
Ss = 0.0001236 $ft^{-1}$
Kr' = 0.01691 cm/sec
Kz/Kr' = 1.




## RISING HEAD TEST

Data Set: S:\...\MW36BR RH.aqt
Date: 10/09/14 Time: 15:29:27

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-36
Test Date: September 2014

## AQUIFER DATA

Saturated Thickness: 21.8 ft Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-36)

Initial Displacement: 1.153 ft
Total Well Penetration Depth: 5.3 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.3 ft
Screen Length: 5.3 ft
Well Radius: 0.125 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 6.815E-5 cm/sec
y0 = 1.107 ft

**Rising Head Slug Test 1 - MW-GT-2S**
**Greenwood Street - New Bedford, MA**

**Test Date:** 9/21/2014 11:05

**Well Data**

2" ID MW Set in 6" boring

| | |
|---|---|
| Static Water Level (ft btoc): | 12.2 |
| Depth of Top of Screen below SWL, d (ft): | 0 |
| Depth of Well Penetration below GW, H (ft): | 6.8 |
| Screen Length Exposed to GW (ft): | 6.8 |
| Casing radius, $r_c$ (ft): | 0.083 |
| Borehole Radius, $r_w$ (ft): | 0.25 |

**Aquifer Data**

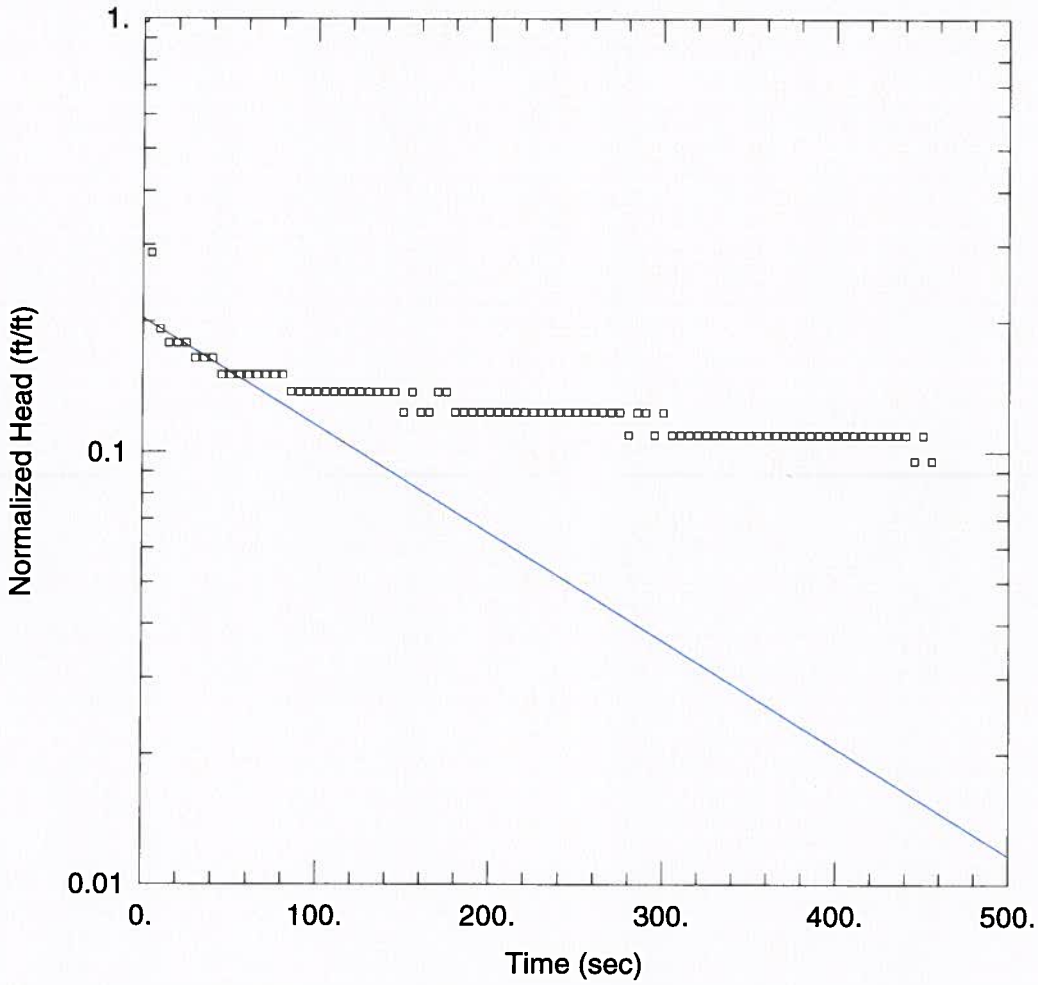
Saturated Thickness, b (ft): 21.8

SLUG USED - standard diposable bailer 3' long x 1.6" diam.

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 11:05:07 | 0 | 4.37955 | | |
| 11:05:12 | 5 | 3.65329 | 0 | 0.73 |
| 11:05:17 | 10 | 4.16862 | 5 | 0.21 |
| 11:05:22 | 15 | 4.23456 | 10 | 0.14 |
| 11:05:27 | 20 | 4.24571 | 15 | 0.13 |
| 11:05:32 | 25 | 4.25036 | 20 | 0.13 |
| 11:05:37 | 30 | 4.25451 | 25 | 0.13 |
| 11:05:42 | 35 | 4.25812 | 30 | 0.12 |
| 11:05:47 | 40 | 4.26289 | 35 | 0.12 |
| 11:05:52 | 45 | 4.26367 | 40 | 0.12 |
| 11:05:57 | 50 | 4.26766 | 45 | 0.11 |
| 11:06:02 | 55 | 4.26831 | 50 | 0.11 |
| 11:06:07 | 60 | 4.26909 | 55 | 0.11 |
| 11:06:12 | 65 | 4.26885 | 60 | 0.11 |
| 11:06:17 | 70 | 4.27027 | 65 | 0.11 |
| 11:06:23 | 75 | 4.27388 | 70 | 0.11 |
| 11:06:27 | 80 | 4.27351 | 75 | 0.11 |
| 11:06:32 | 85 | 4.27261 | 80 | 0.11 |
| 11:06:39 | 90 | 4.27504 | 85 | 0.10 |
| 11:06:42 | 95 | 4.27842 | 90 | 0.10 |
| 11:06:47 | 100 | 4.27594 | 95 | 0.10 |
| 11:06:52 | 105 | 4.27867 | 100 | 0.10 |
| 11:06:58 | 110 | 4.27738 | 105 | 0.10 |
| 11:07:02 | 115 | 4.27957 | 110 | 0.10 |
| 11:07:07 | 120 | 4.27853 | 115 | 0.10 |
| 11:07:12 | 125 | 4.27982 | 120 | 0.10 |
| 11:07:17 | 130 | 4.28218 | 125 | 0.10 |
| 11:07:22 | 135 | 4.281 | 130 | 0.10 |
| 11:07:27 | 140 | 4.27998 | 135 | 0.10 |

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 11:07:32 | 145 | 4.28294 | 140 | 0.10 |
| 11:07:37 | 150 | 4.28345 | 145 | 0.10 |
| 11:07:42 | 155 | 4.28527 | 150 | 0.09 |
| 11:07:47 | 160 | 4.28254 | 155 | 0.10 |
| 11:07:52 | 165 | 4.28641 | 160 | 0.09 |
| 11:07:57 | 170 | 4.28655 | 165 | 0.09 |
| 11:08:02 | 175 | 4.28448 | 170 | 0.10 |
| 11:08:07 | 180 | 4.28448 | 175 | 0.10 |
| 11:08:12 | 185 | 4.28564 | 180 | 0.09 |
| 11:08:17 | 190 | 4.28629 | 185 | 0.09 |
| 11:08:23 | 195 | 4.28666 | 190 | 0.09 |
| 11:08:27 | 200 | 4.28592 | 195 | 0.09 |
| 11:08:32 | 205 | 4.2877 | 200 | 0.09 |
| 11:08:37 | 210 | 4.28758 | 205 | 0.09 |
| 11:08:42 | 215 | 4.28952 | 210 | 0.09 |
| 11:08:47 | 220 | 4.29211 | 215 | 0.09 |
| 11:08:52 | 225 | 4.2912 | 220 | 0.09 |
| 11:08:57 | 230 | 4.29031 | 225 | 0.09 |
| 11:09:02 | 235 | 4.29017 | 230 | 0.09 |
| 11:09:07 | 240 | 4.2925 | 235 | 0.09 |
| 11:09:12 | 245 | 4.29159 | 240 | 0.09 |
| 11:09:17 | 250 | 4.2899 | 245 | 0.09 |
| 11:09:22 | 255 | 4.29055 | 250 | 0.09 |
| 11:09:27 | 260 | 4.29082 | 255 | 0.09 |
| 11:09:32 | 265 | 4.29276 | 260 | 0.09 |
| 11:09:37 | 270 | 4.29303 | 265 | 0.09 |
| 11:09:42 | 275 | 4.29236 | 270 | 0.09 |
| 11:09:47 | 280 | 4.29162 | 275 | 0.09 |
| 11:09:52 | 285 | 4.29508 | 280 | 0.08 |
| 11:09:57 | 290 | 4.2938 | 285 | 0.09 |
| 11:10:02 | 295 | 4.29419 | 290 | 0.09 |
| 11:10:07 | 300 | 4.29599 | 295 | 0.08 |
| 11:10:12 | 305 | 4.2938 | 300 | 0.09 |
| 11:10:17 | 310 | 4.29522 | 305 | 0.08 |
| 11:10:22 | 315 | 4.2973 | 310 | 0.08 |
| 11:10:27 | 320 | 4.29819 | 315 | 0.08 |
| 11:10:32 | 325 | 4.29715 | 320 | 0.08 |
| 11:10:37 | 330 | 4.29612 | 325 | 0.08 |
| 11:10:42 | 335 | 4.29741 | 330 | 0.08 |
| 11:10:47 | 340 | 4.29641 | 335 | 0.08 |
| 11:10:52 | 345 | 4.30168 | 340 | 0.08 |
| 11:10:57 | 350 | 4.29859 | 345 | 0.08 |
| 11:11:02 | 355 | 4.30039 | 350 | 0.08 |
| 11:11:07 | 360 | 4.30066 | 355 | 0.08 |
| 11:11:12 | 365 | 4.30014 | 360 | 0.08 |
| 11:11:17 | 370 | 4.30001 | 365 | 0.08 |
| 11:11:22 | 375 | 4.30001 | 370 | 0.08 |
| 11:11:27 | 380 | 4.29961 | 375 | 0.08 |
| 11:11:32 | 385 | 4.29988 | 380 | 0.08 |

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 11:11:37 | 390 | 4.30039 | 385 | 0.08 |
| 11:11:42 | 395 | 4.30078 | 390 | 0.08 |
| 11:11:47 | 400 | 4.30106 | 395 | 0.08 |
| 11:11:52 | 405 | 4.30324 | 400 | 0.08 |
| 11:11:57 | 410 | 4.30143 | 405 | 0.08 |
| 11:12:02 | 415 | 4.30416 | 410 | 0.08 |
| 11:12:07 | 420 | 4.30299 | 415 | 0.08 |
| 11:12:12 | 425 | 4.30337 | 420 | 0.08 |
| 11:12:17 | 430 | 4.30311 | 425 | 0.08 |
| 11:12:22 | 435 | 4.30363 | 430 | 0.08 |
| 11:12:27 | 440 | 4.30245 | 435 | 0.08 |
| 11:12:32 | 445 | 4.30441 | 440 | 0.08 |
| 11:12:37 | 450 | 4.30543 | 445 | 0.07 |
| 11:12:42 | 455 | 4.30441 | 450 | 0.08 |
| 11:12:47 | 460 | 4.30699 | 455 | 0.07 |




## RISING HEAD SLUG TEST 1

Data Set: S:\...\MW gt2s BR rh 1.aqt
Date: 10/09/14 Time: 15:30:38

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2S
Test Date: September 2014

## AQUIFER DATA

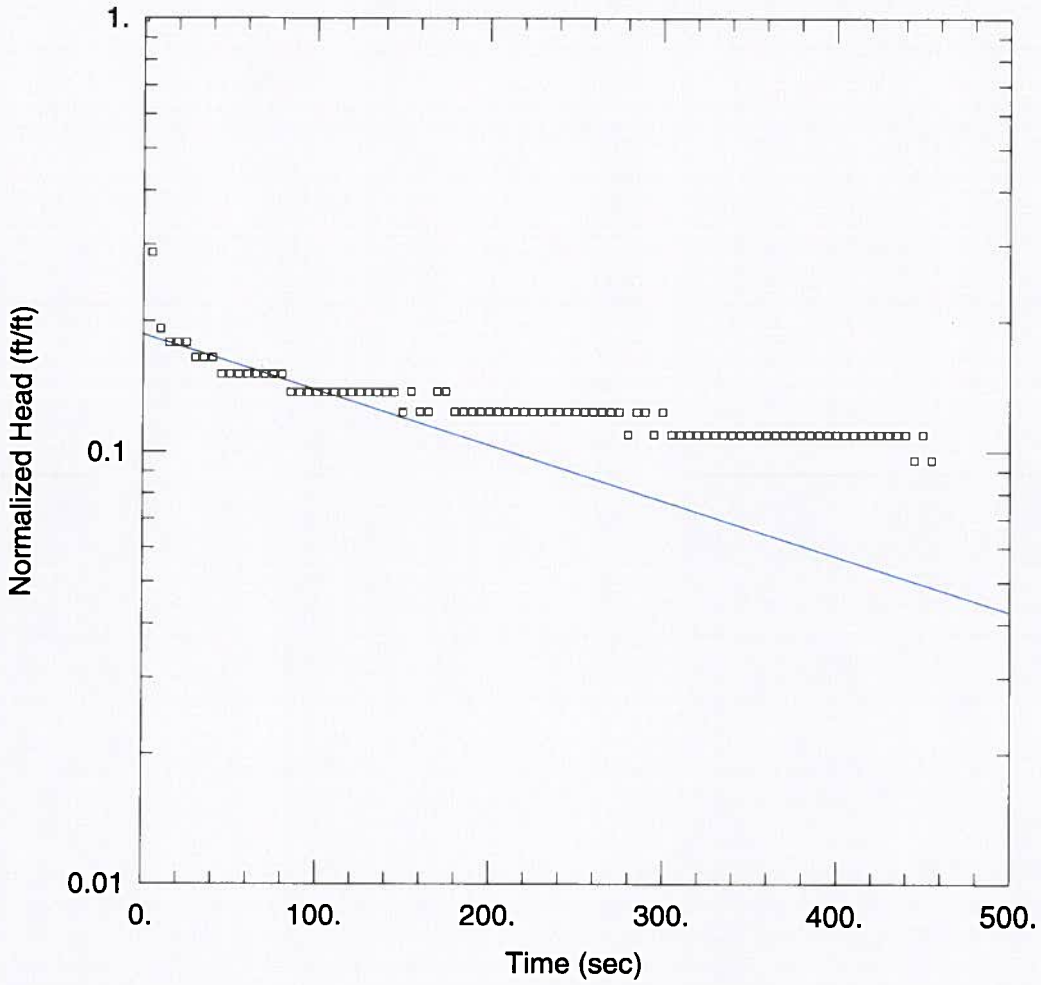
Saturated Thickness: 21.8 ft
Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-GT-2S)

Initial Displacement: 0.73 ft
Total Well Penetration Depth: 6.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.8 ft
Screen Length: 6.8 ft
Well Radius: 0.25 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0001851 cm/sec
y0 = 0.1488 ft




## RISING HEAD SLUG TEST 1

Data Set: S:\...\MW gt2s hv rh 1.aqt
Date: 10/09/14 Time: 15:30:49

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2S
Test Date: September 2014

## AQUIFER DATA

Saturated Thickness: 21.8 ft Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-GT-2S)

Initial Displacement: 0.73 ft
Total Well Penetration Depth: 6.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.8 ft
Screen Length: 6.8 ft
Well Radius: 0.25 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0001505 cm/sec
y0 = 0.1361 ft

**Rising Head Slug Test 2 - MW-GT-2S**
**Greenwood Street - New Bedford, MA**

**Test Date:** 9/21/2014 11:05

**Well Data**

2" ID MW Set in 6" boring

| | |
|---|---|
| Static Water Level (ft btoc): | 12.2 |
| Depth of Top of Screen below SWL, d (ft): | 0 |
| Depth of Well Penetration below GW, H (ft): | 6.8 |
| Screen Length Exposed to GW (ft): | 6.8 |
| Casing radius, $r_c$ (ft): | 0.083 |
| Borehole Radius, $r_w$ (ft): | 0.25 |

**Aquifer Data**

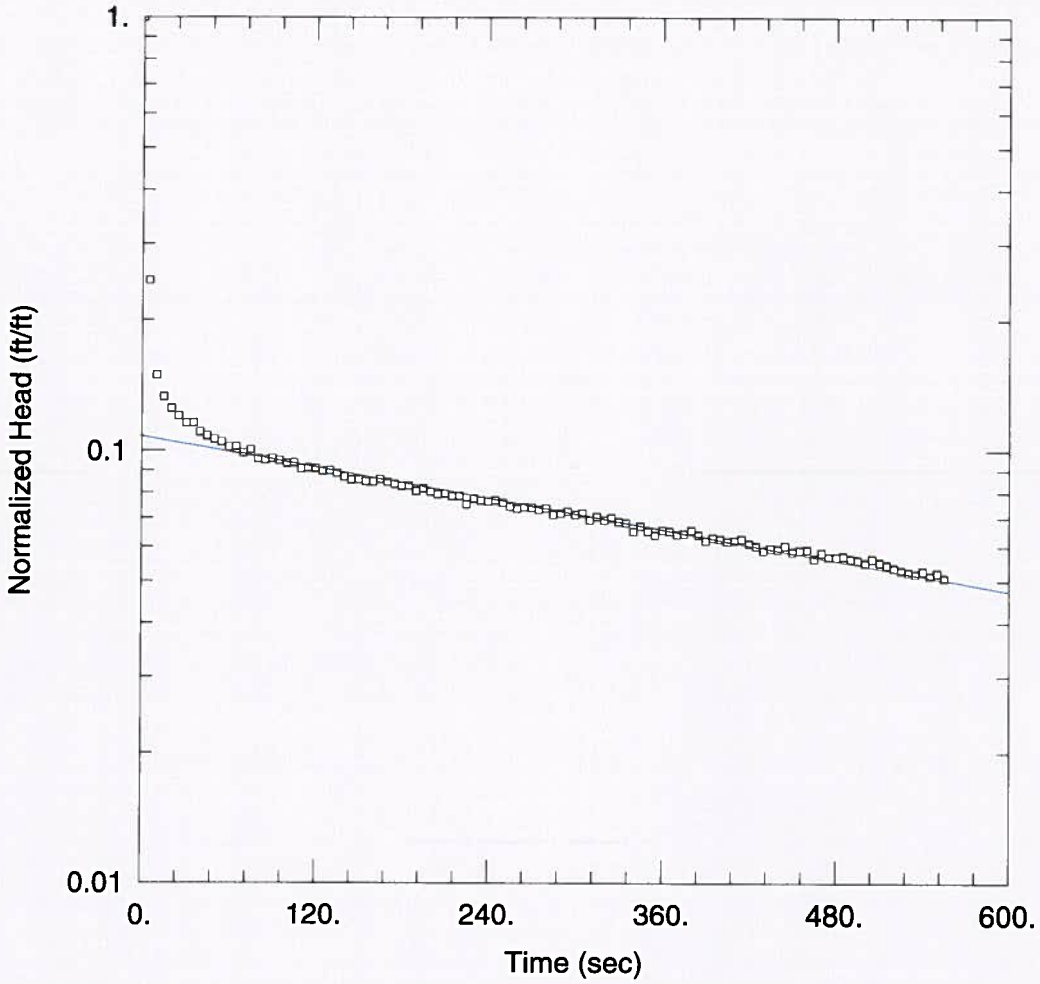
Saturated Thickness, b (ft): 21.8

SLUG USED - standard diposable bailer 3' long x 1.6" diam.

| Date/Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 11:24:02 | 0 | 4.32406 | | |
| 11:24:07 | 5 | 3.18695 | 0 | 1.14 |
| 11:24:12 | 10 | 4.04313 | 5 | 0.28 |
| 11:24:17 | 15 | 4.15411 | 10 | 0.17 |
| 11:24:22 | 20 | 4.17259 | 15 | 0.15 |
| 11:24:27 | 25 | 4.18152 | 20 | 0.14 |
| 11:24:32 | 30 | 4.18709 | 25 | 0.14 |
| 11:24:37 | 35 | 4.192 | 30 | 0.13 |
| 11:24:42 | 40 | 4.19205 | 35 | 0.13 |
| 11:24:47 | 45 | 4.19887 | 40 | 0.13 |
| 11:24:52 | 50 | 4.20144 | 45 | 0.12 |
| 11:24:57 | 55 | 4.20363 | 50 | 0.12 |
| 11:25:02 | 60 | 4.20521 | 55 | 0.12 |
| 11:25:07 | 65 | 4.20856 | 60 | 0.12 |
| 11:25:12 | 70 | 4.20831 | 65 | 0.12 |
| 11:25:17 | 75 | 4.21202 | 70 | 0.11 |
| 11:25:22 | 80 | 4.21012 | 75 | 0.11 |
| 11:25:27 | 85 | 4.21516 | 80 | 0.11 |
| 11:25:32 | 90 | 4.21594 | 85 | 0.11 |
| 11:25:37 | 95 | 4.21516 | 90 | 0.11 |
| 11:25:42 | 100 | 4.21632 | 95 | 0.11 |
| 11:25:47 | 105 | 4.21788 | 100 | 0.11 |
| 11:25:52 | 110 | 4.21749 | 105 | 0.11 |
| 11:25:57 | 115 | 4.22098 | 110 | 0.10 |
| 11:26:02 | 120 | 4.22045 | 115 | 0.10 |
| 11:26:07 | 125 | 4.22085 | 120 | 0.10 |
| 11:26:12 | 130 | 4.22226 | 125 | 0.10 |
| 11:26:17 | 135 | 4.22177 | 130 | 0.10 |
| 11:26:22 | 140 | 4.22329 | 135 | 0.10 |

| Date/Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 11:26:27 | 145 | 4.22523 | 140 | 0.10 |
| 11:26:32 | 150 | 4.2268 | 145 | 0.10 |
| 11:26:37 | 155 | 4.22665 | 150 | 0.10 |
| 11:26:42 | 160 | 4.22757 | 155 | 0.10 |
| 11:26:47 | 165 | 4.2277 | 160 | 0.10 |
| 11:26:52 | 170 | 4.22653 | 165 | 0.10 |
| 11:26:57 | 175 | 4.22784 | 170 | 0.10 |
| 11:27:02 | 180 | 4.22898 | 175 | 0.10 |
| 11:27:07 | 185 | 4.2299 | 180 | 0.09 |
| 11:27:12 | 190 | 4.22976 | 185 | 0.09 |
| 11:27:17 | 195 | 4.23249 | 190 | 0.09 |
| 11:27:22 | 200 | 4.2312 | 195 | 0.09 |
| 11:27:27 | 205 | 4.23274 | 200 | 0.09 |
| 11:27:32 | 210 | 4.23404 | 205 | 0.09 |
| 11:27:37 | 215 | 4.23366 | 210 | 0.09 |
| 11:27:42 | 220 | 4.23482 | 215 | 0.09 |
| 11:27:47 | 225 | 4.23469 | 220 | 0.09 |
| 11:27:52 | 230 | 4.23855 | 225 | 0.09 |
| 11:27:57 | 235 | 4.23598 | 230 | 0.09 |
| 11:28:02 | 240 | 4.23688 | 235 | 0.09 |
| 11:28:07 | 245 | 4.23728 | 240 | 0.09 |
| 11:28:12 | 250 | 4.23688 | 245 | 0.09 |
| 11:28:17 | 255 | 4.23792 | 250 | 0.09 |
| 11:28:22 | 260 | 4.23961 | 255 | 0.08 |
| 11:28:27 | 265 | 4.24051 | 260 | 0.08 |
| 11:28:32 | 270 | 4.23973 | 265 | 0.08 |
| 11:28:37 | 275 | 4.24 | 270 | 0.08 |
| 11:28:42 | 280 | 4.24087 | 275 | 0.08 |
| 11:28:47 | 285 | 4.24037 | 280 | 0.08 |
| 11:28:52 | 290 | 4.24308 | 285 | 0.08 |
| 11:28:57 | 295 | 4.24257 | 290 | 0.08 |
| 11:29:02 | 300 | 4.2418 | 295 | 0.08 |
| 11:29:07 | 305 | 4.24309 | 300 | 0.08 |
| 11:29:12 | 310 | 4.24246 | 305 | 0.08 |
| 11:29:17 | 315 | 4.24541 | 310 | 0.08 |
| 11:29:22 | 320 | 4.244 | 315 | 0.08 |
| 11:29:27 | 325 | 4.24541 | 320 | 0.08 |
| 11:29:32 | 330 | 4.24453 | 325 | 0.08 |
| 11:29:37 | 335 | 4.24606 | 330 | 0.08 |
| 11:29:42 | 340 | 4.24646 | 335 | 0.08 |
| 11:29:47 | 345 | 4.25007 | 340 | 0.07 |
| 11:29:52 | 350 | 4.24787 | 345 | 0.08 |
| 11:29:57 | 355 | 4.24993 | 350 | 0.07 |
| 11:30:02 | 360 | 4.25136 | 355 | 0.07 |
| 11:30:07 | 365 | 4.24945 | 360 | 0.07 |
| 11:30:12 | 370 | 4.24984 | 365 | 0.07 |
| 11:30:17 | 375 | 4.25109 | 370 | 0.07 |
| 11:30:22 | 380 | 4.25086 | 375 | 0.07 |
| 11:30:27 | 385 | 4.24945 | 380 | 0.07 |

| Date/Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (seconds) | Displacement (feet) |
|---|---|---|---|---|
| 11:30:32 | 390 | 4.25126 | 385 | 0.07 |
| 11:30:37 | 395 | 4.25342 | 390 | 0.07 |
| 11:30:42 | 400 | 4.25241 | 395 | 0.07 |
| 11:30:47 | 405 | 4.25281 | 400 | 0.07 |
| 11:30:52 | 410 | 4.25372 | 405 | 0.07 |
| 11:30:57 | 415 | 4.25344 | 410 | 0.07 |
| 11:31:02 | 420 | 4.25281 | 415 | 0.07 |
| 11:31:07 | 425 | 4.2546 | 420 | 0.07 |
| 11:31:12 | 430 | 4.25552 | 425 | 0.07 |
| 11:31:17 | 435 | 4.25707 | 430 | 0.07 |
| 11:31:22 | 440 | 4.25629 | 435 | 0.07 |
| 11:31:27 | 445 | 4.25669 | 440 | 0.07 |
| 11:31:32 | 450 | 4.25537 | 445 | 0.07 |
| 11:31:37 | 455 | 4.25758 | 450 | 0.07 |
| 11:31:42 | 460 | 4.25694 | 455 | 0.07 |
| 11:31:47 | 465 | 4.25681 | 460 | 0.07 |
| 11:31:52 | 470 | 4.2599 | 465 | 0.06 |
| 11:31:57 | 475 | 4.25783 | 470 | 0.07 |
| 11:32:02 | 480 | 4.25939 | 475 | 0.06 |
| 11:32:07 | 485 | 4.25939 | 480 | 0.06 |
| 11:32:12 | 490 | 4.25901 | 485 | 0.07 |
| 11:32:17 | 495 | 4.25991 | 490 | 0.06 |
| 11:32:22 | 500 | 4.26029 | 495 | 0.06 |
| 11:32:27 | 505 | 4.26144 | 500 | 0.06 |
| 11:32:32 | 510 | 4.25991 | 505 | 0.06 |
| 11:32:37 | 515 | 4.26106 | 510 | 0.06 |
| 11:32:42 | 520 | 4.26198 | 515 | 0.06 |
| 11:32:47 | 525 | 4.26301 | 520 | 0.06 |
| 11:32:52 | 530 | 4.26379 | 525 | 0.06 |
| 11:32:57 | 535 | 4.26431 | 530 | 0.06 |
| 11:33:02 | 540 | 4.26496 | 535 | 0.06 |
| 11:33:07 | 545 | 4.26391 | 540 | 0.06 |
| 11:33:12 | 550 | 4.26559 | 545 | 0.06 |
| 11:33:17 | 555 | 4.26456 | 550 | 0.06 |
| 11:33:22 | 560 | 4.26623 | 555 | 0.06 |




## RISING HEAD SLUG TEST 2

Data Set: S:\...\MW gt2s BR rh 2.aqt
Date: 10/09/14 Time: 15:31:45

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2S
Test Date: September 2014

## AQUIFER DATA

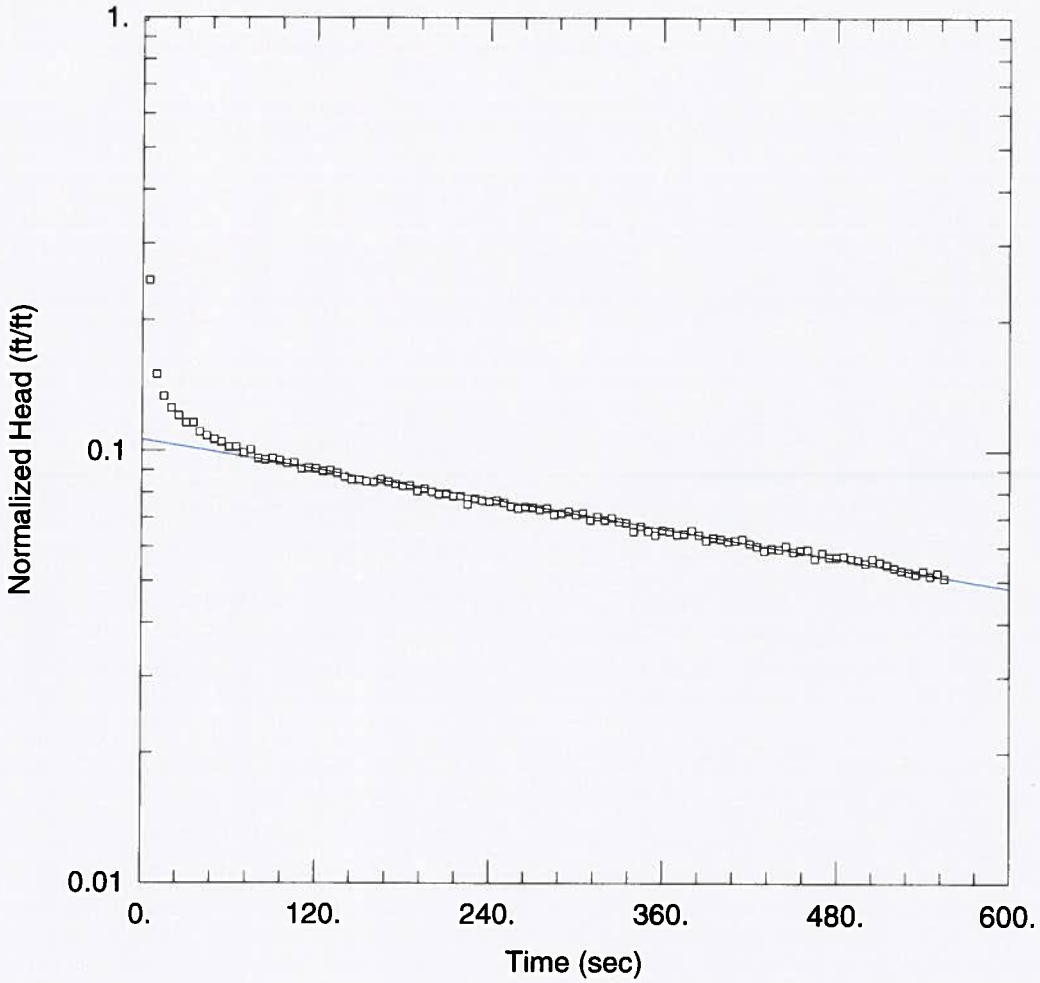
Saturated Thickness: 21.8 ft
Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-GT-2S)

Initial Displacement: 1.137 ft
Total Well Penetration Depth: 6.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.8 ft
Screen Length: 6.8 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.000152 cm/sec
y0 = 0.1228 ft




## RISING HEAD SLUG TEST 2

Data Set: S:\...\MW gt2s hv rh 2.aqt
Date: 10/09/14 Time: 15:31:56

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2S
Test Date: September 2014

## AQUIFER DATA

Saturated Thickness: 21.8 ft
Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-GT-2S)

Initial Displacement: 1.137 ft
Total Well Penetration Depth: 6.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.8 ft
Screen Length: 6.8 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0002298 cm/sec
y0 = 0.1208 ft

**Rising Head Slug Test - MW-GT-2D**
**Greenwood Street - New Bedford, MA**

**Test Date:** 9/21/2014

**Well Data**

2" ID MW Set in 6" boring

| | |
|---|---|
| Static Water Level (ft btoc): | 12.25 |
| Depth of Top of Screen below SWL, d (ft): | 7.75 |
| Depth of Well Penetration below GW, H (ft): | 12.8 |
| Screen Length Exposed to GW (ft): | 5 |
| Casing radius, $r_c$ (ft): | 0.083 |
| Borehole Radius, $r_w$ (ft): | 0.25 |

**Aquifer Data**

Saturated Thickness, b (ft): 21.8

SLUG USED - standard diposable bailer 3' long x 1.6" diam.

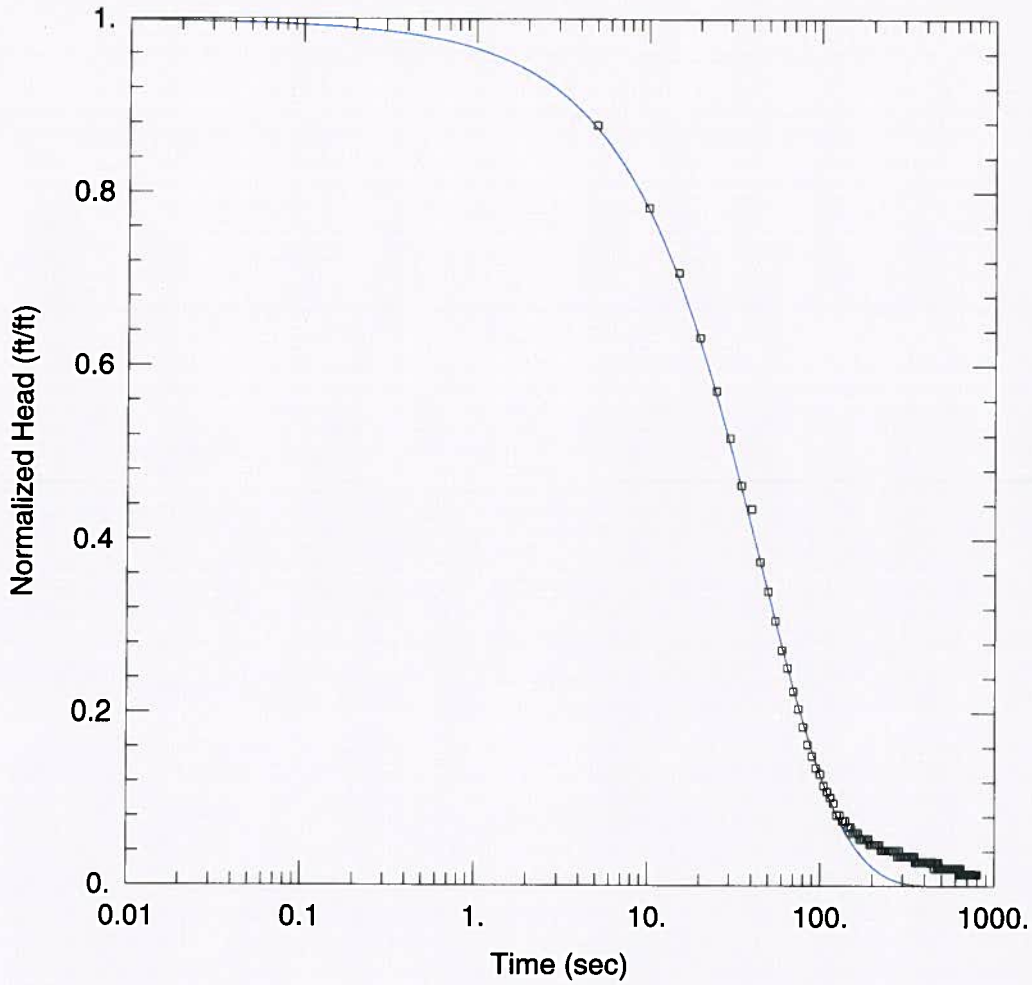
| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (second) | Displacement (feet) |
|---|---|---|---|---|
| 11:42:27 | 0 | 4.28176 | | |
| 11:42:32 | 5 | 4.28044 | | |
| 11:42:37 | 10 | 4.27671 | | |
| 11:42:42 | 15 | 4.27748 | | |
| 11:42:47 | 20 | 4.27657 | | |
| 11:42:52 | 25 | 4.27631 | | |
| 11:42:57 | 30 | 4.2767 | | |
| 11:43:02 | 35 | 4.27269 | | |
| 11:43:07 | 40 | 4.27542 | | |
| 11:43:12 | 45 | 4.27449 | | |
| 11:43:17 | 50 | 4.27499 | | |
| 11:43:22 | 55 | 4.27657 | | |
| 11:43:27 | 60 | 4.27321 | | |
| 11:43:32 | 65 | 4.27308 | | |
| 11:43:37 | 70 | 4.27631 | | |
| 11:43:42 | 75 | 4.27566 | | |
| 11:43:47 | 80 | 4.27308 | | |
| 11:43:52 | 85 | 4.27411 | | |
| 11:43:57 | 90 | 4.27449 | | |
| 11:44:02 | 95 | 4.27631 | | |
| 11:44:07 | 100 | 4.27438 | | |
| 11:44:12 | 105 | 4.27295 | | |
| 11:44:17 | 110 | 4.27463 | | |
| 11:44:22 | 115 | 4.27218 | | |
| 11:44:27 | 120 | 4.27373 | | |
| 11:44:32 | 125 | 4.27308 | | |
| 11:44:37 | 130 | 4.27566 | | |
| 11:44:42 | 135 | 4.27516 | | |
| 11:44:47 | 140 | 4.27708 | | |
| 11:44:52 | 145 | 4.27476 | | |
| 11:44:57 | 150 | 4.27411 | | |
| 11:45:01 | 155 | 4.27438 | | |
| 11:45:07 | 160 | 4.27631 | | |
| 11:45:12 | 165 | 4.27761 | | |
| 11:45:17 | 170 | 4.27449 | | |
| 11:45:22 | 175 | 4.27412 | | |

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (second) | Displacement (feet) |
|---|---|---|---|---|
| 11:45:27 | 180 | 4.2758 | | |
| 11:45:32 | 185 | 4.27542 | | |
| 11:45:37 | 190 | 4.2763 | | |
| 11:45:42 | 195 | 4.27425 | | |
| 11:45:47 | 200 | 4.27488 | | |
| 11:45:52 | 205 | 4.27542 | | |
| 11:45:57 | 210 | 4.2767 | | |
| 11:46:01 | 215 | 4.27528 | | |
| 11:46:07 | 220 | 4.27439 | | |
| 11:46:12 | 225 | 4.27943 | | |
| 11:46:17 | 230 | 4.27966 | | |
| 11:46:22 | 235 | 2.81182 | 0 | 1.47 |
| 11:46:27 | 240 | 2.99405 | 5 | 1.29 |
| 11:46:32 | 245 | 3.12706 | 10 | 1.15 |
| 11:46:37 | 250 | 3.24393 | 15 | 1.04 |
| 11:46:42 | 255 | 3.34849 | 20 | 0.93 |
| 11:46:47 | 260 | 3.43921 | 25 | 0.84 |
| 11:46:52 | 265 | 3.52266 | 30 | 0.76 |
| 11:46:57 | 270 | 3.59686 | 35 | 0.68 |
| 11:47:01 | 275 | 3.64368 | 40 | 0.64 |
| 11:47:07 | 280 | 3.72842 | 45 | 0.55 |
| 11:47:12 | 285 | 3.7829 | 50 | 0.50 |
| 11:47:17 | 290 | 3.82958 | 55 | 0.45 |
| 11:47:22 | 295 | 3.87475 | 60 | 0.40 |
| 11:47:27 | 300 | 3.91378 | 65 | 0.37 |
| 11:47:32 | 305 | 3.9485 | 70 | 0.33 |
| 11:47:37 | 310 | 3.98174 | 75 | 0.30 |
| 11:47:42 | 315 | 4.0102 | 80 | 0.27 |
| 11:47:47 | 320 | 4.03545 | 85 | 0.24 |
| 11:47:52 | 325 | 4.05762 | 90 | 0.22 |
| 11:47:57 | 330 | 4.07722 | 95 | 0.20 |
| 11:48:01 | 335 | 4.08859 | 100 | 0.19 |
| 11:48:07 | 340 | 4.10806 | 105 | 0.17 |
| 11:48:12 | 345 | 4.12255 | 110 | 0.16 |
| 11:48:17 | 350 | 4.133 | 115 | 0.15 |
| 11:48:22 | 355 | 4.1445 | 120 | 0.14 |
| 11:48:27 | 360 | 4.15549 | 125 | 0.12 |
| 11:48:32 | 365 | 4.15966 | 130 | 0.12 |
| 11:48:37 | 370 | 4.16651 | 135 | 0.11 |
| 11:48:42 | 375 | 4.17131 | 140 | 0.11 |
| 11:48:47 | 380 | 4.17609 | 145 | 0.10 |
| 11:48:52 | 385 | 4.18255 | 150 | 0.10 |
| 11:48:57 | 390 | 4.18709 | 155 | 0.09 |
| 11:49:01 | 395 | 4.18849 | 160 | 0.09 |
| 11:49:07 | 400 | 4.19188 | 165 | 0.09 |
| 11:49:12 | 405 | 4.19614 | 170 | 0.08 |
| 11:49:17 | 410 | 4.19809 | 175 | 0.08 |
| 11:49:22 | 415 | 4.19911 | 180 | 0.08 |
| 11:49:27 | 420 | 4.20313 | 185 | 0.08 |
| 11:49:32 | 425 | 4.20224 | 190 | 0.08 |
| 11:49:37 | 430 | 4.20482 | 195 | 0.07 |
| 11:49:42 | 435 | 4.20791 | 200 | 0.07 |
| 11:49:47 | 440 | 4.20868 | 205 | 0.07 |
| 11:49:52 | 445 | 4.20959 | 210 | 0.07 |
| 11:49:57 | 450 | 4.21012 | 215 | 0.07 |
| 11:50:01 | 455 | 4.2128 | 220 | 0.07 |

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (second) | Displacement (feet) |
|---|---|---|---|---|
| 11:50:07 | 460 | 4.21555 | 225 | 0.06 |
| 11:50:12 | 465 | 4.21581 | 230 | 0.06 |
| 11:50:17 | 470 | 4.21657 | 235 | 0.06 |
| 11:50:22 | 475 | 4.21657 | 240 | 0.06 |
| 11:50:27 | 480 | 4.21848 | 245 | 0.06 |
| 11:50:32 | 485 | 4.21994 | 250 | 0.06 |
| 11:50:37 | 490 | 4.21903 | 255 | 0.06 |
| 11:50:42 | 495 | 4.22137 | 260 | 0.06 |
| 11:50:47 | 500 | 4.22267 | 265 | 0.06 |
| 11:50:52 | 505 | 4.22267 | 270 | 0.06 |
| 11:50:57 | 510 | 4.22408 | 275 | 0.06 |
| 11:51:01 | 515 | 4.22699 | 280 | 0.05 |
| 11:51:07 | 520 | 4.22458 | 285 | 0.06 |
| 11:51:12 | 525 | 4.22833 | 290 | 0.05 |
| 11:51:17 | 530 | 4.22691 | 295 | 0.05 |
| 11:51:22 | 535 | 4.22718 | 300 | 0.05 |
| 11:51:27 | 540 | 4.22873 | 305 | 0.05 |
| 11:51:32 | 545 | 4.2281 | 310 | 0.05 |
| 11:51:37 | 550 | 4.22976 | 315 | 0.05 |
| 11:51:42 | 555 | 4.23262 | 320 | 0.05 |
| 11:51:47 | 560 | 4.23146 | 325 | 0.05 |
| 11:51:52 | 565 | 4.23326 | 330 | 0.05 |
| 11:51:57 | 570 | 4.23198 | 335 | 0.05 |
| 11:52:01 | 575 | 4.23376 | 340 | 0.05 |
| 11:52:07 | 580 | 4.23456 | 345 | 0.05 |
| 11:52:12 | 585 | 4.23431 | 350 | 0.05 |
| 11:52:17 | 590 | 4.23598 | 355 | 0.04 |
| 11:52:22 | 595 | 4.23598 | 360 | 0.04 |
| 11:52:27 | 600 | 4.23623 | 365 | 0.04 |
| 11:52:32 | 605 | 4.23611 | 370 | 0.04 |
| 11:52:37 | 610 | 4.23623 | 375 | 0.04 |
| 11:52:42 | 615 | 4.23869 | 380 | 0.04 |
| 11:52:47 | 620 | 4.23948 | 385 | 0.04 |
| 11:52:52 | 625 | 4.23766 | 390 | 0.04 |
| 11:52:57 | 630 | 4.23792 | 395 | 0.04 |
| 11:53:01 | 635 | 4.23973 | 400 | 0.04 |
| 11:53:07 | 640 | 4.24128 | 405 | 0.04 |
| 11:53:12 | 645 | 4.24283 | 410 | 0.04 |
| 11:53:17 | 650 | 4.24088 | 415 | 0.04 |
| 11:53:22 | 655 | 4.24246 | 420 | 0.04 |
| 11:53:27 | 660 | 4.24205 | 425 | 0.04 |
| 11:53:32 | 665 | 4.2418 | 430 | 0.04 |
| 11:53:37 | 670 | 4.24192 | 435 | 0.04 |
| 11:53:42 | 675 | 4.24387 | 440 | 0.04 |
| 11:53:47 | 680 | 4.24321 | 445 | 0.04 |
| 11:53:52 | 685 | 4.24387 | 450 | 0.04 |
| 11:53:57 | 690 | 4.24812 | 455 | 0.03 |
| 11:54:01 | 695 | 4.24348 | 460 | 0.04 |
| 11:54:07 | 700 | 4.24424 | 465 | 0.04 |
| 11:54:12 | 705 | 4.24414 | 470 | 0.04 |
| 11:54:17 | 710 | 4.24698 | 475 | 0.03 |
| 11:54:22 | 715 | 4.24464 | 480 | 0.04 |
| 11:54:27 | 720 | 4.24814 | 485 | 0.03 |
| 11:54:32 | 725 | 4.24554 | 490 | 0.03 |
| 11:54:37 | 730 | 4.24633 | 495 | 0.03 |
| 11:54:42 | 735 | 4.24594 | 500 | 0.03 |

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (second) | Displacement (feet) |
|---|---|---|---|---|
| 11:54:47 | 740 | 4.24749 | 505 | 0.03 |
| 11:54:52 | 745 | 4.24672 | 510 | 0.03 |
| 11:54:57 | 750 | 4.24851 | 515 | 0.03 |
| 11:55:01 | 755 | 4.24787 | 520 | 0.03 |
| 11:55:07 | 760 | 4.25022 | 525 | 0.03 |
| 11:55:12 | 765 | 4.24955 | 530 | 0.03 |
| 11:55:17 | 770 | 4.25034 | 535 | 0.03 |
| 11:55:22 | 775 | 4.25006 | 540 | 0.03 |
| 11:55:27 | 780 | 4.24854 | 545 | 0.03 |
| 11:55:32 | 785 | 4.25126 | 550 | 0.03 |
| 11:55:37 | 790 | 4.24984 | 555 | 0.03 |
| 11:55:42 | 795 | 4.25201 | 560 | 0.03 |
| 11:55:47 | 800 | 4.25072 | 565 | 0.03 |
| 11:55:52 | 805 | 4.25099 | 570 | 0.03 |
| 11:55:57 | 810 | 4.25241 | 575 | 0.03 |
| 11:56:01 | 815 | 4.25099 | 580 | 0.03 |
| 11:56:07 | 820 | 4.25306 | 585 | 0.03 |
| 11:56:12 | 825 | 4.25228 | 590 | 0.03 |
| 11:56:17 | 830 | 4.25203 | 595 | 0.03 |
| 11:56:22 | 835 | 4.25267 | 600 | 0.03 |
| 11:56:27 | 840 | 4.25449 | 605 | 0.03 |
| 11:56:32 | 845 | 4.2546 | 610 | 0.03 |
| 11:56:37 | 850 | 4.25435 | 615 | 0.03 |
| 11:56:42 | 855 | 4.25422 | 620 | 0.03 |
| 11:56:47 | 860 | 4.2546 | 625 | 0.03 |
| 11:56:52 | 865 | 4.25449 | 630 | 0.03 |
| 11:56:57 | 870 | 4.25474 | 635 | 0.02 |
| 11:57:01 | 875 | 4.25292 | 640 | 0.03 |
| 11:57:07 | 880 | 4.25552 | 645 | 0.02 |
| 11:57:12 | 885 | 4.25474 | 650 | 0.02 |
| 11:57:17 | 890 | 4.25629 | 655 | 0.02 |
| 11:57:22 | 895 | 4.25537 | 660 | 0.02 |
| 11:57:27 | 900 | 4.2559 | 665 | 0.02 |
| 11:57:32 | 905 | 4.25808 | 670 | 0.02 |
| 11:57:37 | 910 | 4.25629 | 675 | 0.02 |
| 11:57:42 | 915 | 4.25861 | 680 | 0.02 |
| 11:57:47 | 920 | 4.25564 | 685 | 0.02 |
| 11:57:52 | 925 | 4.25552 | 690 | 0.02 |
| 11:57:57 | 930 | 4.25526 | 695 | 0.02 |
| 11:58:01 | 935 | 4.25681 | 700 | 0.02 |
| 11:58:07 | 940 | 4.25746 | 705 | 0.02 |
| 11:58:12 | 945 | 4.25887 | 710 | 0.02 |
| 11:58:17 | 950 | 4.25849 | 715 | 0.02 |
| 11:58:22 | 955 | 4.25976 | 720 | 0.02 |
| 11:58:27 | 960 | 4.25861 | 725 | 0.02 |
| 11:58:32 | 965 | 4.25939 | 730 | 0.02 |
| 11:58:37 | 970 | 4.26067 | 735 | 0.02 |
| 11:58:42 | 975 | 4.25901 | 740 | 0.02 |
| 11:58:47 | 980 | 4.25976 | 745 | 0.02 |
| 11:58:52 | 985 | 4.25875 | 750 | 0.02 |
| 11:58:57 | 990 | 4.25914 | 755 | 0.02 |
| 11:59:01 | 995 | 4.25952 | 760 | 0.02 |
| 11:59:07 | 1000 | 4.26144 | 765 | 0.02 |
| 11:59:12 | 1005 | 4.25887 | 770 | 0.02 |
| 11:59:17 | 1010 | 4.25901 | 775 | 0.02 |
| 11:59:22 | 1015 | 4.25991 | 780 | 0.02 |

| Time | Elapsed Time (seconds) | Depth (ft) | Time Since Test Started (second) | Displacement (feet) |
|---|---|---|---|---|
| 11:59:27 | 1020 | 4.25952 | 785 | 0.02 |
| 11:59:32 | 1025 | 4.26029 | 790 | 0.02 |
| 11:59:37 | 1030 | 4.26144 | 795 | 0.02 |




## RISING HEAD TEST

Data Set: S:\...\MW-GT-2D KGS RH.aqt
Date: 10/09/14 Time: 15:33:15

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2D
Test Date: September 2014

## AQUIFER DATA

Saturated Thickness: 21.8 ft

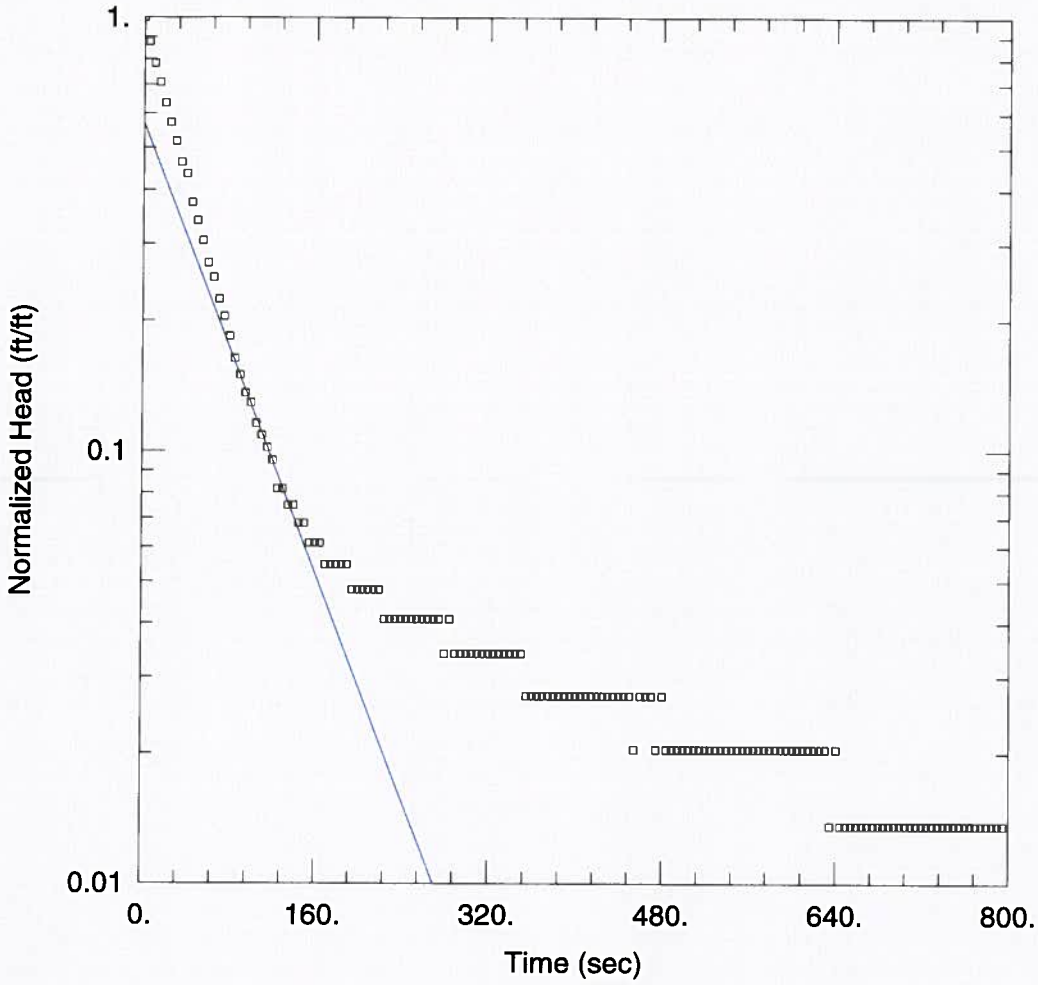
## WELL DATA (MW-GT-2D)

Initial Displacement: 1.47 ft
Total Well Penetration Depth: 12.8 ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Static Water Column Height: 12.8 ft
Screen Length: 5. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 0.001188 cm/sec
Kz/Kr = 1.
Ss' = 1.0E-10 $ft^{-1}$
Ss = 2.167E-5 $ft^{-1}$
Kr' = 4.385E-6 cm/sec
Kz/Kr' = 0.001




## RISING HEAD TEST

Data Set: S:\...\MW-GT-2D br RH.aqt
Date: 10/09/14 Time: 15:33:32

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2D
Test Date: September 2014

## AQUIFER DATA

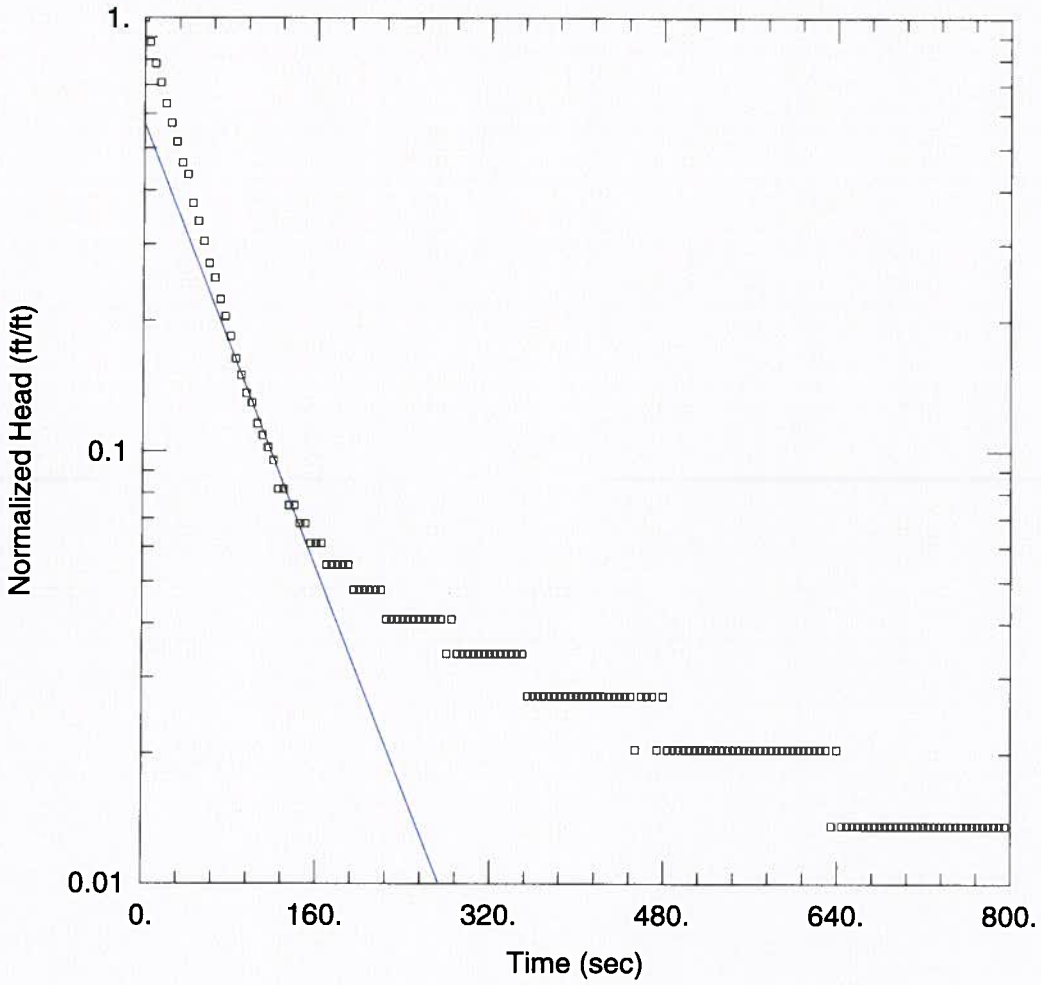
Saturated Thickness: 21.8 ft
Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-GT-2D)

Initial Displacement: 1.47 ft
Total Well Penetration Depth: 12.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.8 ft
Screen Length: 5. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002399 cm/sec
y0 = 0.8412 ft




## RISING HEAD TEST

Data Set: S:\...\MW-GT-2D hv RH.aqt
Date: 10/09/14 Time: 15:33:42

## PROJECT INFORMATION

Company: TRC Environmental
Client: 102 Greenwood Street
Project: 115058
Location: New Bedford
Test Well: MW-GT-2D
Test Date: September 2014

## AQUIFER DATA

Saturated Thickness: 21.8 ft
Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (MW-GT-2D)

Initial Displacement: 1.47 ft
Total Well Penetration Depth: 12.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.8 ft
Screen Length: 5. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.003186 cm/sec
y0 = 0.8384 ft

**Excavation Dewatering Estimate**
**Greenwood Street**
**New Bedford, MA**

Calculations by: JSH
Checked by:DWA

**Statement of Problem:**

The City of New Bedford, Massachusetts plans to undertake a soil removal action at 102 Greenwood Street. A portion of the excavation will extend below the water table and will require dewatering. Estimate the approximate flow rate into the excavation to support the selection of an appropriate pump to lower the water table to the bottom of the excavation.

**Approach:**

Unless watertight interlocking sheet piles or plates are used, groundwater seepage will enter the excavation from the sides as well as the bottom of the excavation. These two components of flow are evaluated separately using analytical equations described below and then combined to provide a total estimated groundwater seepage rate to the excavation. If interlocking sheet piles or plates are used, it is anticipated that groundwater seepage may be lower.

*Horizontal Flow Component*

Horizontal seepage is estimated using a combination of the Theis Equation and the Dupuit-Forchheimer Equation for point source discharge to an excavation or radial flow to a well. The Theis Equation was used to estimate the distance away from the excavation where drawdown is negligible, which is used as input for the Dupuit-Forchheimer Equation. The Dupuit-Forchheimer Equation was used to quantify horizontal groundwater seepage to the excavation face. The two equations are summarized below.

Theis Equation

$$s = [114.6 * Q * W(\mu)]/T \qquad \text{(Equation 1)}$$

Where: s = drawdown, feet;
Q = Pumping Rate, gpm;
W(μ) = Theis Well Function;
$\mu = (1.87*r^2*S)/T$;
T = Transmissivity, gpd/ft;

r = distance to where drawdown is measured, feet;
S = Storage Coefficient; and
t = time since pumping started, days.

Dupuit-Forchheimer Equation $Q = [K*\pi * (H^2-h^2)]/\log(R/r_w)$ (Equation 2)

where: Q = pumping rate, $ft^3$/day;
K = horizontal hydraulic conductivity, ft/day;
b = saturated thickness, feet;
H = Static head above bottom of aquifer (bedrock), feet;
h = water level in well while pumping, feet;
R = radius of cone of depression, feet - estimated from Theis; and
$r_w$ = equivalent radius of well based upon area of excavation, feet.

*Vertical Flow Component*

The vertical flow through the base of the excavation is estimated using Darcy's Law expressed as follows:

$Q = K_v * i * A * 0.0052$ (Equation 3)

Where: Q = Vertical seepage rate through bottom of excavation, gpm;
$K_v$ = Vertical Hydraulic Conductivity of soil at bottom of excavation, feet/day;

A = Surface area of bottom of excavation; and
i = Upward hydraulic gradient under pumping conditions.

Attachment 3

Dewatering Calculations

**Calculations for Horizontal Discharge to Excavation:**

Estimate distance from excavation that drawdown will be negligible.

*Assumptions*

1. Aquifer thickness is uniform in the area influenced by dewatering.
2. The aquifer is homogenous and isotropic in the area influenced by dewatering.
3. Dewatering will be required for no more than 1.5 days.
4. Water is released instantaneously from storage.
5. There are no sources of recharge to the aquifer during dewatering (i.e., all water comes from storage in aquifer).
6. Prior to pumping, the horizontal hydraulic gradient is flat.

*Input for Equations 1 and 2*

| Parameter | Value | Units | Data Source |
|---|---|---|---|
| Drawdown, s | 8 | feet | (Maximum depth of excavation + 1 ft) - estimated depth to water during slug tests = 20 ft - 12 ft = 8 feet |
| Storage Coefficient, S | 2.7E-03 | unitless | Estimated from slug test data from MW-36 |
| Assumed radius of theoretical pumping well in excavation area, r - Used for Theis Eq. | 0.25 | feet | Assume 0.25 ft to estimate trial pumping rate that yields 7 foot drawdown at excavation at t = 1.5 days |
| Equivalent radius of well, $r_w$ | varies | feet | Varies as area of excavation changes with different excavation depths. |
| Radius of Influence, R | 150 | feet | Estimated from Theis using Q that yields 7 foot drawdown. |
| Horizontal Hydraulic Conductivity, $K_h$ - for depths above 17 feet | 2.66<br>0.355 | $gpd/ft^2$<br>ft/day | Geometric Mean from Slug Tests of MW-36 and MW-GT-2S |
| Horizontal Hydraulic Conductivity, $K_h$ - for depths below 17 feet | 44.2<br>5.9 | $gpd/ft^2$<br>ft/day | Based upon slug test results for MW-GT-2D at maximum depth of excavation |

| Parameter | Value | Units | Data Source |
|---|---|---|---|
| Saturated thickness, H or $h_o$ | 21.8 | feet | Depth to refusal (rock) at MW-GT-2D - DTW during slug testing. |
| Transmissivity, T | 58.0 | gpd/ft | Product of $K_h$ and b |
| time, t | 1.5 | days | Assumed maximum dewatering time |
| Head at exc. During pumping, h | varies | feet | (Saturated thickness - drawdown at excavation) -1 additional foot to dewater below bottom of excavation. Varies based upon area undergoing excavation. |

Use Theis Equation to estimate the distance from excavation at which drawdown is negligible. Drawdown of 0.1 ft is considered negligible.

| Q (gpm) | s (feet) | r (feet) | S | T (gpd/ft) | t (days) | μ | W(μ) |
|---|---|---|---|---|---|---|---|
| Estimate pumping rate that will induce 7 feet of drawdown in excavation area in 1.5 days | | | | | | | |
| 0.3 | 8 | 0.25 | 0.0027 | 57.77 | 1.5 | 3.6E-06 | 11.9574 |
| Using the pumping rate above, estimate the r at which drawdown is 0.1 or lower | | | | | | | |
| 0.3 | 0.08 | **150** | 0.0027 | 57.77 | 1.5 | 1.3E+00 | 0.1355 |

Use 150 feet as distance from excavation where drawdown negligible.

Use Dupuit-Forchheimer Equation to Estimate Horizontal Seepage into Excavation

Note that the depth of excavation below the water table will change as the excavation proceeds. During the initial sequence to 13 feet, the excavation will extend approximately 2 feet below the water table over an area of approximately 256 square feet based upon excavation design. During the second sequence to 15 feet, the excavation will extend to this depth (4 feet below the water table) over an area of approximately 211 square feet with an additional 45 square feet of excavation extending 2 feet below the water table. For the excavation sequences to 17 feet, approximately 112 square feet of excavation will extend approximately 6 feet below the water table, 99 square feet will extend 4 feet below the water table, and 45 will extend 2 feet below the water table. For the final sequence to 19 feet, approximately 47 square feet will extend 8 feet below the water table, 65 square feet will extend six feet below the water table, 99 square feet will extend

4 feet below the water table, and 45 square feet will extend 2 feet below the water table. The depths below the water table are based upon water levels measured on September 21, 2014 from MW-GT-2S and MW-36. Equivalent radiii used in the Dupuit-Forchheimer Equation to estimate pumping rates are summarized below.

**Estimated Area of excavation**

| **Depth of Excavation** | **($ft^2$)** |
|---|---|
| 13 ft | 45 |
| 15 ft | 99 |
| 17 ft | 65 |
| 19 ft | 47 |
| Total | 256 |

| **Excavation Sequence** | **Area ($ft^2$)** | **Equivalent Radius, $r_w$ (ft)** | |
|---|---|---|---|
| Excavation to 13 feet (2 ft below water table) | 256 | 9.0 | equivalent radius estimated as the square root of Area/π. |
| Excavation to 13 ft | 45 | 3.8 | for 15 foot excavation, assume 2 wells, one pumping from 13 foot excavation, and one for 15 foot excavation |
| Excavation to 15 ft | 211 | 8.2 | |
| Excavation to 13 ft | 45 | 3.8 | for 17 foot excavation, assume 3 wells, one pumping from 13 foot excavation, and one for 15 foot excavation, and one from 17 ft excavation. |
| Excavation to 15 ft | 99 | 5.6 | |
| Excavation to 17 ft | 112 | 6.0 | |
| Excavation to 13 ft | 45 | 3.8 | for 19 foot excavation, assume 4 wells, one pumping from 13 foot excavation, and one for 15 foot excavation, one from 17 ft excavation, and one from 19 ft excavation. |
| Excavation to 15 ft | 99 | 5.6 | |
| Excavation to 17 ft | 65 | 4.5 | |
| Excavation to 19 ft | 47 | 3.9 | |

**Excavation Dewatering Estimate**
**Greenwood Street**
**New Bedford, MA**

Calculations by: JSH
Checked by:DWA

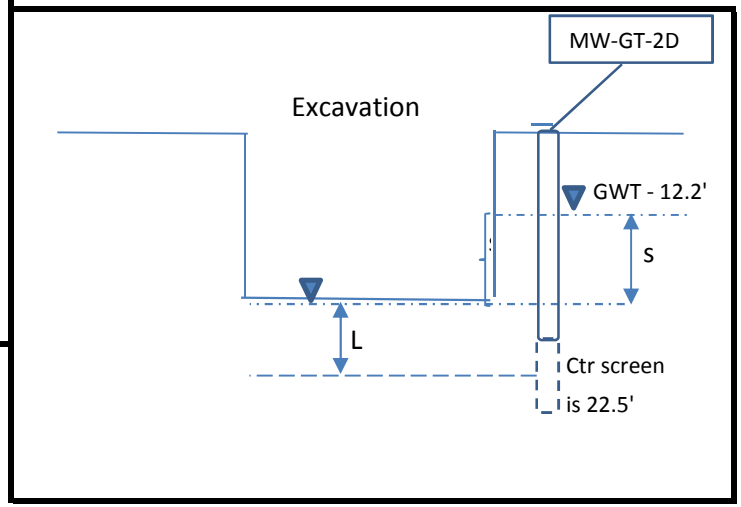
| Sequence | Q (gpm) | K (ft/day) | H (feet) | h (feet) | R (feet) | r (feet) |
|---|---|---|---|---|---|---|
| *Sequence 1 Excavate to 13 ft* | | | | | | |
| 13 feet (h = $h_0$ - 2 ft = 19.8 ft) | **0.4** | 0.36 | 21.8 | 19.8 | 150 | 9 |
| *Sequence 2 Excavate to 15 ft* | | | | | | |
| 13 feet (h = $h_0$ - 2 ft = 19.8 ft) | **0.3** | 0.36 | 21.8 | 19.8 | 150 | 3.8 |
| 15 feet (h = $h_0$ - 4 ft = 17.8 ft) | **0.7** | 0.36 | 21.8 | 17.8 | 150 | 8.2 |
| Total | **1.0** | | | | | |
| *Sequence 3 Excavate to 17 ft* | | | | | | |
| 13 feet (h = $h_0$ - 2 ft = 19.8 ft) | **0.3** | 0.36 | 21.8 | 19.8 | 150 | 3.8 |
| 15 feet (h = $h_0$ - 4 ft = 17.8 ft) | **0.7** | 0.36 | 21.8 | 17.8 | 150 | 5.6 |
| 17 feet (h = $h_0$ - 6 ft = 15.8 ft) | **0.9** | 0.36 | 21.8 | 15.8 | 150 | 6 |
| Total | **1.9** | | | | | |
| *Sequence 4 Excavate to 19 ft* | | | | | | |
| 13 feet (h = $h_0$ - 2 ft = 19.8 ft) | **0.3** | 0.36 | 21.8 | 19.8 | 150 | 3.8 |
| 15 feet (h = $h_0$ - 4 ft = 17.8 ft) | **0.6** | 0.36 | 21.8 | 17.8 | 150 | 4.5 |
| 17 feet (h = $h_0$ - 6 ft = 15.8 ft) | **0.8** | 0.36 | 21.8 | 15.8 | 150 | 3.9 |
| 19 feet (h = $h_0$ - 8 ft = 13.8 ft) | **17.3** | 5.9 | 21.8 | 13.8 | 150 | 3.9 |
| Total | **19.1** | | | | | |

Estimate upper end horizontal seepage to excavation to be approximately 19.1 gpm at final excavation depth.

**Calculations for Vertical Seepage Into Excavation:**

*Input for Equation 3*

| Parameter | Value | Units | Data Source |
|---|---|---|---|
| Vertical Hydraulic Conductivity, $K_v$ | 0.26 | ft/day | |
| *Vertical Hydraulic Gradient* | | | Vertical Hydraulic gradients during dewatering were estimated using the groundwater elevation measured at MW-GT-2D on September 21, 2014 and anticipated drawdown during excavation using the following equation - i = s/L. The terms of the equation are defined on the illustration below. |
| Excavation to 13 ft, s = 2, L = 22.5- (12.2+2) = 8.3 ft | 0.24 | Unitless | |
| Excavation to 15 ft, s = 4, L = 22.5- (12.2+4) = 6.3 ft | 0.63 | Unitless | |
| Excavation to 17 ft, s = 6, L = 22.5- (12.2+6) = 4.3 ft | 1.4 | Unitless | |
| Excavation to 19 ft, s = 8, L = 22.5- (12.2+8) = 2.3 ft | 3.5 | Unitless | |
| *Bottom Area* | | | |
| Excavation to 13 ft | 45 | $ft^2$ | |
| Excavation to 15 ft | 99 | $ft^2$ | |
| Excavation to 17 ft | 65 | $ft^2$ | |
| Excavation to 19 ft | 47 | $ft^2$ | |



**Excavation Dewatering Estimate**
**Greenwood Street**
**New Bedford, MA**

Calculations by: JSH
Checked by:DWA

| Sequence | Q (gpm) | $K_v$ (ft/day) | i | A ($ft^2$) |
|---|---|---|---|---|
| *Sequence 1 Excavate to 13 ft* | 0.01 | 0.23 | 0.24 | 45 |
| *Sequence 2 Excavate to 15 ft* | 0.16 | 0.23 | 0.63 | 211 |
| *Sequence 3 Excavate to 17 ft* | 0.19 | 0.23 | 1.4 | 112 |
| *Sequence 4 Excavate to 19 ft* | 0.20 | 0.23 | 3.5 | 47 |

Maximum inferred seepage into excavation at 19 foot excavation depth =
Maximum horizontal seepage plus maximum vertical seepage =
19.1 gpm + 0.2 gpm = 19.3 gpm say 20 gpm.

A safety factor of 1.5 has been incorporated into the estimate of the seepage rate into the excavation based upon recommendations presented in Unified Facilities Criteria (UFC) Guidance for Dewatering and Groundwater Control (2004). Based upon application of the safety factor, the adjusted flow rate is 1.5 x 20 gpm = 30 gpm. A pump capable of sustaining a rate of 30 gpm to 35 gpm should be adequate to dewater the excavation. The pump should be capable of pumping against a head of at least 30 feet.