RELEASE ABATEMENT MEASURE PLAN

SOIL EXCAVATION AND REMOVAL AT THE ACQUIRED RESIDENTIAL PROPERTIES

Parker Street Waste Site
New Bedford, Massachusetts

Release Tracking Number 4-15685

Prepared for:

City of New Bedford
Department of Environmental Stewardship
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Acronyms

ACEC	Areas of Critical Environmental Concern
AUL	Activity and Use Limitation
BETA	BETA Group, Incorporated
BOL	Bill of Lading
COPC	Chemicals of Potential Concern
CSA	Comprehensive Site Assessment
DPI	Department of Public Infrastructure
ELCR	Excess Lifetime Cancer Risk
EPA	United States Environmental Protection Agency
EP	Exposure Point
EPCs	Exposure Point Concentrations
HASP	Health and Safety Plan
HI	Hazard Index
HQ	Hazard Quotient
IH	Imminent Hazard
KMS	Keith Middle School
LSP	Licensed Site Professional
MassDEP	Massachusetts Department of Environmental Protection
MassGIS	Massachusetts Geographic Information System
MCP	Massachusetts Contingency Plan
mg/kg	Milligrams per Kilogram
mg/m3	Milligrams per Cubic Meter
MSR	Material Shipping Record
NBHS	New Bedford High School
NEA	Northeast Analytical Laboratories
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCDD	polychlorinated dibenzo-p-dioxin
PCDF	polychlorinated dibenzofuran
pg/g	picograms per gram
PID	Photoionization Detector
PPE	Personal Protective Equipment
QC	Quality Control
PSWS	Parker Street Waste Site
RAFs	relative absorption factors
RAM	Release Abatement Measure
RCRA	Resource Conservation and Recovery Act
RfCs	reference concentrations
RfDs	Subchronic reference doses
RTN	Release Tracking Number
SFs	slope factors
SVOC	Semivolatile Organic Compounds
TCLP	toxicity characteristic leaching procedure
TEQ	Toxicity Equivalent

TPH	Total Petroleum Hydrocarbon
TRC	TRC Environmental Corporation
TSCA	Toxic Substances Control Act
UCL	Upper Concentration Limit
UR	Unit Risk
VOCs	Volatile Organic Compounds
VPH	Volatile Petroleum Hydrocarbons

EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) prepared this Release Abatement Measures (RAM) Plan for remediation activities proposed to be performed on behalf of the City of New Bedford (City) at the properties located at 101, 102, and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street (hereinafter "Acquired Residential Properties"). The Site is located on the eastern end of Greenwood and Ruggles Streets at or near the intersection of Hathaway Boulevard in New Bedford, Massachusetts.

A portion of the soil volume targeted for removal under this RAM is regulated by the United States Environmental Protection Agency (EPA) under the regulations of the Toxic Substances Control Act (TSCA), specifically applicable sections of 40 CFR Part 761. With support from TRC, the City clarified EPA's requirements in advance of the preparation of this RAM Plan. Correspondence related to the advanced planning with EPA is cited herein where appropriate and provided in Appendix A.

The proposed RAM activities include the following:

- EPA-approved pre-excavation polychlorinated biphenyl (PCB) Remediation Waste confirmatory sampling;
- Pre-characterization of PCB Remediation Waste Soil, and non-PCB Remediation Soil, for waste disposal and/or treatment requirements;
- Excavation of PCB Remediation Waste and direct loading into lined roll-offs;
- Temporary on-site storage of lined roll-off; if necessary;
- Excavation of non-PCB Remediation Waste soils at 102 Greenwood Street;
- Temporary on-site stockpiling of non-PCB Remediation Waste
- On-site reuse of non-PCB Remediation Waste excavated soils;
- Off-Site disposal of excavated PCB Remediation Waste soils and excess non-PCB Remediation Waste Soil;
- Off-Site disposal of remediation generated wastes (i.e. decontamination solvents, rags, etc.);
- Backfilling the excavated soil at 102 Greenwood Street with documented compliant fill material; and
- Construction of an exposure barrier at the five contiguous properties located at 101 and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street.

Site investigations identified the presence of historic fill at the Site variously impacted by PCBs, polycyclic aromatic hydrocarbons (PAHs), and heavy metals (including arsenic, barium, cadmium, chromium, lead, mercury, nickel, and zinc), and chlorinated dioxins/furans. The fill material appears to be attributable to historic disposal activities.

Currently, no Imminent Hazard (IH) condition exists at the Site, and a condition of No Significant Risk exists for current Site conditions at these fenced parcels. However, soil EPCs for lead, arsenic, benzo(a)pyrene, total PCBs and dioxin Toxicity Equivalent (TEQ) are associated with hazard indices (HIs) greater than 1 and/or excess lifetime cancer risks (ELCRs) greater than 1×10^{-5} for future Site conditions. As a result, a Condition of No Significant Risk does not exist for potential soil impacts at the Site under future use scenarios.

A detailed discussion of the investigative results and risk assessment was provided in the *Phase II Comprehensive Site Assessment* report (Phase II Report) dated January 2012.

The objective of these RAM activities is to remove PCB Remediation Waste as defined in 40 CFR §761.3, and to mitigate the current and future risks associated with the Site soils as supported by risk calculations. A drawing illustrating the area targeted for excavation is presented in Appendix B, Figure C-103.

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As part of the development of the planned activities, an analysis of potential remedial alternatives was performed, as described in Section 4.0.

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) prepared this Release Abatement Measures (RAM) Plan for remediation activities proposed to be performed on behalf of the City of New Bedford (City) at the properties located at 101, 102, and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street (hereinafter "Acquired Residential Properties"). The Acquired Residential Properties (hereinafter the "Site") are tracked by the Massachusetts Department of Environmental Protection (MassDEP) under Release Tracking Number (RTN) 4-15685. The Site is located on the eastern end of Greenwood and Ruggles Streets at or near the intersection of Hathaway Boulevard in New Bedford, Massachusetts. The Site location is identified on Figure 1. This RAM was prepared per 310 CMR 40.0440 of the Massachusetts Contingency Plan (MCP).

A portion of the soil volume targeted for removal under this RAM is regulated by the United States Environmental Protection Agency (EPA) under the regulations of the Toxic Substances Control Act (TSCA), specifically applicable sections of 40 CFR Part 761. With support from TRC, the City clarified EPA's requirements in advance of the preparation of this RAM Plan. Correspondence related to the advanced planning with EPA is cited herein where appropriate and provided in Appendix A.

The proposed RAM activities include the following:

- EPA-approved pre-excavation polychlorinated biphenyl (PCB) Remediation Waste confirmatory sampling;
- Pre-characterization of PCB Remediation Waste Soil, and non-PCB Remediation Soil, for waste disposal and/or treatment requirements;
- Excavation of PCB Remediation Waste and direct loading into lined roll-offs;
- Temporary on-site storage of lined roll-off; if necessary;
- Excavation of non-PCB Remediation Waste soils at 102 Greenwood Street;
- Temporary on-site stockpiling of non-PCB Remediation Waste
- On-site reuse of non-PCB Remediation Waste excavated soils;
- Off-site disposal of excavated PCB Remediation Waste soils and excess non-PCB Remediation Waste Soil;
- Off-site disposal of remediation generated wastes (i.e. decontamination solvents, rags, etc.);
- Backfilling the excavated soil at 102 Greenwood Street with documented compliant fill material; and
- Construction of an exposure barrier at the five contiguous properties located at 101 and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street.

Site investigations identified the presence of historic fill at the Site variously impacted by PCBs, polycyclic aromatic hydrocarbons (PAHs), and heavy metals (including arsenic, barium,

cadmium, chromium, lead, mercury, nickel, and zinc), and chlorinated dioxins/furans. The fill material appears to be attributable to historic disposal activities.

Currently, no Imminent Hazard (IH) condition exists at the Site, and a condition of No Significant Risk exists for current Site conditions at these fenced parcels. However, soil EPCs for lead, arsenic, benzo(a)pyrene, total PCBs and dioxin Toxicity Equivalent (TEQ) are associated with hazard indices (HIs) greater than 1 and/or excess lifetime cancer risks (ELCRs) greater than 1×10^{-5} for future Site conditions. As a result, a Condition of No Significant Risk does not exist for potential soil impacts at the Site under future use scenarios.

A detailed discussion of the investigative results and risk assessment was provided in the *Phase II Comprehensive Site Assessment* report (Phase II Report) dated January 2012.

The proposed work to be performed under this RAM will serve to remove soil classified as PCB Remediation Waste (as defined in 40 CFR §761.3), to reduce the current and future risks at the Site, and to achieve a Condition of No Significant Risk.

1.1 Background Information

Investigative work completed at the Site by TRC supplemented previous assessment work at the Site conducted by the BETA Group, Incorporated (BETA) as identified in the Phase II Report. The investigative work completed at the Site, identified that although a Condition of No Significant Risk currently exists at the Site, a Condition of No Significant Risk does not exist for potential soil impacts under future use scenarios.

The Site investigation identified total PCBs (as Aroclors) in soil at a concentration greater than 50 milligrams per kilogram (mg/kg) at the following locations: 118 Ruggles Street at one sample location (A15); 101 Greenwood Street at four sample locations (H2, SB-101-6B, TP101-H, and TP101-I); and 102 Greenwood Street at six sample locations (SB-185, SB-102-6, SB-102-8A, SB-102-B, SB-102-8C, and SB-102-8D,). All other soil sample results (BETA and TRC) are below a concentration of 50 mg/kg total PCBs.

The 118 Ruggles Street sample location (A15) was previously excavated by EPA during a removal action being performed at the adjacent property.

The soil removal activities described in this RAM Plan are intended to remove PCB Remediation Waste and to reduce the current and future risks at the Site, and to achieve a Condition of No Significant Risk.

1.2 Work Summary

Work to be performed under this RAM includes:

- EPA-approved pre-excavation PCB Remediation Waste confirmatory sampling;
- Pre-characterization of PCB Remediation Waste Soil, and non-PCB Remediation Soil, for waste disposal and/or treatment requirements;

- Excavation of PCB Remediation Waste and direct loading into lined roll-offs;
- Temporary on-site storage of lined roll-off(s), if necessary;
- Excavation of non-PCB Remediation Waste soils at 102 Greenwood Street;
- Temporary on-site stockpiling of non-PCB Remediation Waste;
- On-site reuse of non-PCB Remediation Waste excavated soils;
- Off-Site disposal of excavated PCB Remediation Waste soils and non-PCB Remediation Waste Soil;
- Off-Site disposal of remediation generated wastes (i.e. decontamination solvents, rags, etc.); and
- Backfilling the excavated soil at 102 Greenwood Street with documented compliant fill material.
- Construction of an exposure barrier at the five contiguous properties located at 101 and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street.

The remaining sections of this RAM Plan include information pertaining to the following:

- Party undertaking the RAM (Section 2);
- Release description, site conditions and surrounding receptors (Section 3);
- Objective, plan and implementation schedule of the RAM (Section 4);
- Information pertaining to remediation waste management (Section 5);
- Environmental monitoring (Section 6);
- Federal, State, and Local permits (Section 7);
- Seal and signature of the Licensed Site Professional (Section 8);
- Certification of financial resources (Section 9);
- Relevant information (Section 10); and
- References (Section 11).

Supporting appendices include EPA Correspondence (Appendix A), remediation drawings and details (Appendix B), risk evaluation (Appendix C), soil management plan (Appendix D), RAM Plan fee documentation (Appendix E), and municipal notification letters (Appendix F).

1.3 Regulatory Status

1.3.1 Release Reporting

This Site is managed pursuant to the MCP (310 CMR 40.0000) under MassDEP RTN 4-15685, the RTN for the Parker Street Waste Site (PSWS). Response actions at the PSWS are conducted under a Special Project designation (310 CMR 40.0060) due to logistical complexities.

2.0 PARTY UNDERTAKING THE RAM

The party undertaking this RAM is:

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740
Contact: Ms. Michele S. W. Paul
(508) 979-1487

3.0 RELEASE DESCRIPTION, SITE CONDITIONS & SURROUNDING RECEPTORS

3.1 Site Description

A Site Location Map is provided as Figure 1, which illustrates the general Site vicinity within the City of New Bedford, Massachusetts. The Site includes the properties located at 101, 102, and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street and occupies approximately 1.3 acres. The properties are grass-covered and the former structures have been removed.

3.2 Surrounding Receptors

Land uses at properties surrounding the Site are largely residential. The Site lies within 500 feet of residential properties and also includes the following properties and land uses:

- The New Bedford High School (NBHS) campus is located to the east of the Site across Hathaway Boulevard;
- The New Andrea McCoy Field is located to the south of the Site;
- Dr. Paul F. Walsh Athletic Complex is located to the southwest of the Site.
- A church is located south of the Site at the intersection of Parker Street and Hathaway Boulevard;
- The Keith Middle School (KMS) campus is located to the north of the Site; and
- Residential properties are located across Hathaway Boulevard southwest of the Site and on Greenwood and Ruggles Streets south and west of the Site.

Groundwater categories at the Site include actual or potential GW-2, depending upon proximity to occupied structures (groundwater is encountered at approximately 4-7 feet below ground surface based on data collected from groundwater monitoring well installations at the Site), and GW-3, which applies to all groundwater throughout the Commonwealth.

Based on review of on-line MassDEP Priority Resource Map data available from Massachusetts Geographic Information System (MassGIS), the Site is not located within a Current or Potential Drinking Water Source Area (MassGIS, 2008).

The Site is not located in a wetland resource area. No other documented sensitive ecological receptor areas (e.g., Areas of Critical Environmental Concern [ACECs]) are known to be located at or near the site. No municipal or residential wells are known to be within 500 feet of the Site

3.3 Release Description

As described previously, MassDEP tracks the Site under RTN 4-15685. Based on review of historical USGS topographic maps from 1941 and 1949 the Site was the location of a wetland area. In the 1942 (1936 survey data) map and 1949 (1948 survey data) map, the Site is illustrated as a wetland.

Based on a review of historical aerial photographs, the Site was subject to land disturbance or disposal activities between approximately the 1940s and early 1970s. The chemical profile of fill materials found at some locations of the Site are similar to those of industrial landfills indicating that the fill material is associated with dumping from industrial sources. The New Bedford High School was constructed between 1970 and 1972. Soils displaced for construction of the building's foundation were reportedly transported across Hathaway Boulevard to what was then vacant land (the present-day location of KMS and the Site). In 1994, at the current location of KMS, much of the stockpiled soil was used for grading to create the Former Andrea McCoy Soccer Field across Hathaway Boulevard from NBHS (McCoy Field PCB Approval Tech Support Document, EPA dated August 24, 2005) and north of the subject Site. During an environmental investigation of KMS' property as a possible location for a middle school in 2000, concentrations of PCBs above regulatory reporting criteria were detected, which led to a reporting condition to MassDEP. MassDEP assigned RTN 4-15685.

Following the detection of PCBs at KMS, additional investigations of the surrounding area (NBHS, Walsh Field, and the Site) were initiated by BETA on behalf of the City in connection with a conditional approval issued by the EPA (PCB Risk-Based Cleanup and Disposal Approval, McCoy Field [New Keith Middle School], New Bedford, MA, USEPA August 24, 2005).

3.3.1 Overview of Investigation History

Previous subsurface environmental investigations at the Acquired Residential Properties were conducted by BETA between December 2005 and June 2006. BETA conducted subsurface investigations at the Acquired Residential Properties to evaluate the presence of soil impacts. Soil samples collected by BETA were analyzed for PCBs, Resource Conservation and Recovery Act (RCRA) 8 metals, polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH). A summary of the data collected by BETA from the residential area was submitted in the following BETA reports:

- *Summary of Analytical Data, Volume I of II, Properties Located on: Greenwood Street, Ruggles Street, Durfee Street, New Bedford, Massachusetts,* dated March 15, 2006;
- *Summary of Analytical Data, Volume II of II, Properties Located on: Greenwood Street, Ruggles Street, Durfee Street, New Bedford, Massachusetts,* dated March 15, 2006;
- *Summary of Analytical Data, 98 Ruggles Street, New Bedford, Massachusetts,* dated September 14, 2006; and
- *Summary of Analytical Data, 102 Greenwood Street, New Bedford, Massachusetts,* dated September 14, 2006

During that time, BETA advanced 164 soil borings throughout the Site. Soil samples were collected and submitted for the following laboratory analyses:

Analyses	Number of Soil Samples[1]	
	Grab Samples	Composite Samples
PCBs[2]	299	13
RCRA 8 Metals[3]	3	69
SVOCs and PAHs[4]	-	72
VOCs[5]	44	-
Dibenzofuran	6	41
TPH – Diesel Range Organics[6]	31	47
TPH – Gasoline Range Organics[7]	29	-

Notes:
[1]Does not include quality control (QC) samples.
[2]Polychlorinated biphenyls (PCBs) as Aroclors.
[3]RCRA 8 Metals – arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.
[4]Semivolatile Organic Carbon (SVOCs) and Polyaromatic hydrocarbons (PAHs).
[5]Volatile Organic Compounds (VOCs).
[6]Total Petroleum Hydrocarbons Diesel Range Organics.
[7]Total Petroleum Hydrocarbons Gasoline Range Organics.

The results of laboratory analyses are discussed in Section 4.0 of this RAM Plan. BETA identified the following Site chemicals of concern:

- PCBs
- RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver)
- Semi-volatile organic compounds (SVOCs)

Additional soil testing was conducted in June 2008 at 102 Greenwood Street only and in December 2010 at all of the Acquired Residential Properties by TRC to address data gaps. PCB congener and chlorinated dioxin/furan investigative sampling was subsequently performed in June 2011 by TRC.

The majority of TRC's environmental investigation consisted of direct push soil borings using a track-, truck- or dolly-mounted drill rig to sample soil and to observe subsurface soil conditions. Soil borings completed in basements and garages prior to the demolition of the Acquired Residential Properties' structures were completed using a hammer drill. Drilling services and equipment were provided by New England Geotech, LLC (New England Geotech) of Jamestown, Rhode Island, under TRC field supervision. The borings were advanced using Geoprobe® direct push methods. The samples were visually examined in the field for evidence of impacts and field screened using the MassDEP jar headspace methodology with a photoionization detector (PID). Samples were collected from each boring at various depths to delineate the extent of soil impacts. The investigative approach was intended to evaluate the presence or absence of fill, the vertical extent of fill, and the potential presence of chemicals of concern in soil and fill material.

Borings conducted at the Site were advanced and typically samples were collected until native overburden was encountered unless refusal was encountered first. Where native material was

submitted for laboratory analysis, two samples of native material were sometimes collected in borings selected to characterize the native horizon. The lower native sample was retained for analysis contingent upon the results of the upper native horizon analysis in an attempt to delineate the vertical extent of soil impacts, if present. The contingent native material was not analyzed if the native material interval above it was found to be below cleanup criteria based on laboratory analysis or as directed by the TRC Licensed Site Professional (LSP). Certain borings focused on delineation of chemicals surrounding a data point and included sampling in the 0 to 3 foot depth interval only.

Soil samples for PCB Aroclor analyses were submitted to Northeast Analytical Laboratories (NEA) of Schenectady, New York, and Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts. Soil samples for MCP metals and mercury, PAH, and Toxicity Characteristic Leaching Procedure (TCLP) metals analyses were submitted to Con-Test. All samples were submitted under chain-of-custody.

Subslab borings conducted on 102 Greenwood Street relied on smaller tools and equipment; soil samples collected were analyzed for PCBs, MCP metals, and PAHs.

Additional environmental investigations were conducted at the Site using a backhoe to dig test pits in February, April, and July of 2009, and December 2010. Test pit backhoe services and equipment were provided by the City of New Bedford Department of Public Infrastructure (DPI), and performed under TRC environmental field supervision. The soil was removed in approximately one-foot flights, and temporarily stockpiled on polyethylene sheeting for observation, until native material was encountered. Samples were taken of the soil and were visually examined in the field for evidence of impacts and field screened using the MassDEP jar headspace methodology and a PID. Samples were collected from some of the test pits at various depths to delineate the extent of soil impacts.

In the Site, 75 borings were advanced, including surface soil sampling, and 17 test pits were conducted, supplementing the prior work conducted by BETA. Soil samples were collected and submitted for the following laboratory analyses:

Summary of TRC Investigative Sampling	
Analysis	**Number of Analyses[1]**
PCBs[2]	271
SVOCs/PAHs[3]	108
MCP Metals[4]	41
Identified Metals of Concern[5]	231
EPH[6]	3
VPH[7]	1

Notes:
[1]Does not include quality control (QC) samples.
[2]Polychlorinated biphenyls (PCBs) as Aroclors by SW-846 Method 8082A.
[3]Semivolatile Organic Carbon (SVOCs) and Polyaromatic hydrocarbons (PAHs) by SW-846 Method 8270D.
[4]Massachusetts Contingency Plan (MCP) Metals – antimony, arsenic, barium, beryllium, cadmium, chromium, lead, nickel, selenium, silver, thallium, vanadium, zinc and mercury by SW-846 Methods 6010C/7471B.

[5] Identified Metals of Concern include; arsenic, barium, cadmium, chromium, lead, nickel, and zinc by SW-846 Methods 6010C.
[6]Extractable petroleum hydrocarbons (EPH) by MassDEP Method
[7]Volatile petroleum hydrocarbons (VPH) by the MassDEP Method.

Figure 2 illustrates the locations investigated by TRC and BETA at the Site using the above-described techniques. The sampling locations were surveyed by Land Planning, Incorporated of Hanson, Massachusetts (Land Planning) following sampling activities.

Soil samples for PCB Aroclor analysis were submitted to Pace/NEA Laboratories of Schenectady, New York. Soil samples for MCP metals and mercury, PAHs, and TCLP metals analyses were submitted to Con-Test of East Longmeadow, Massachusetts. All samples were submitted under chain-of-custody.

A summary of all Site analytical data is provided as follows:

3.3.1.1 Dioxin Investigative Sampling

In June 2011, soil investigative sampling was conducted for polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and dioxin-like PCBs (collectively referred to as dioxin and dioxin-like compounds). A total of twenty-three samples were collected from thirteen sample locations and analyzed for dioxins by SW-846 Method 8290A and PCB congeners by SW-846 Method 1668A by Cape Fear Analytical of Wilmington, North Carolina.

Dioxin and dioxin-like compounds may be formed as part of a burning/combustion process under some conditions. Data collected to date indicate that ash is present in impacted fill at the Site. The soil data indicate that PCBs are the only chlorinated dioxin/dibenzofuran precursor compounds at the Site. There is no other indication in the available analytical data of the presence of any other chlorinated organic compounds with the potential to serve as chlorinated dioxin/dibenzofuran precursors in significant concentrations, based on analysis for VOCs, SVOCs, pesticides, and PCBs.

This evaluation of target sample locations was based on the evaluation of existing chemical signatures and geographic coverage within the population of previous sample locations. The soil sampling program was designed to collect samples from biased high ("worst case") locations at the Site, as well as unbiased sample locations to support the evaluation of current and future human health risk under the MCP using data that is representative of potential exposures across the Site. For the biased sample locations, soil sample locations with concentrations greater than regulatory limits for PCBs, PAHs, and/or metals were selected for review. Sample locations were selected based on the presence of ash/cinders, metals enrichment, and PAHs; PCB concentrations; and to provide geographic coverage. The selection of locations for the worst case biased sampling approach was intended to avoid underestimating risk. At each sample location, a sample was taken of the top one foot soil interval, as well as the one to three foot soil interval.

The results of the dioxin and dioxin-like compound investigative sampling are discussed separately in Section 3.3.3.

3.3.2 Current Subsurface Conditions

Chemicals detected in soil collected from the Site that contribute to soil EPCs that are associated with HIs greater than 1 and/or ELCRs greater than 1 x 10^{-5} for future Site conditions are lead, total PCBs, arsenic, and dioxin TEQ. As a result, a Condition of No Significant Risk does not exist for potential soil impacts at the Site under future use scenarios. A discussion of dioxin investigative results is included separately. The following discussion of the extent of lead, total PCBs, arsenic, and dioxin TEQ impacts is a digest of the discussion of the nature and extent from the Phase II Report focusing on those chemicals detected that contribute to a condition of No Significant Risk and considered in the development of the scope of remedial actions outlined herein.

Tables summarizing the results of analyses for soil samples collected at the Site are provided in Tables 1 and 2. Concentrations of cadmium, chromium, lead, nickel, benzo(a)pyrene, and total PCBs were mapped in Figures 4-1 to 4-4 provided in the Phase II Report. The reported presence of chemicals that are associated with HIs greater than 1 and/or ELCRs greater than 1 x 10^{-5} for future Site conditions are summarized below.

Arsenic. Arsenic was detected in soils in the 0 to 3 feet horizon at concentrations that contribute to EPCs associated with His greater than 1 and/or ELCRs greater 1 x 10^{-5} for future Site conditions, at two isolated sample locations. One location is on the northern border of the 98 Ruggles Street property and the other location is in the southeastern corner of the 101 Greenwood Street property.

At the 101 Greenwood Street, 111 Greenwood Street, 98 Ruggles Street, 108 Ruggles Street and 118 Ruggles Street properties (hereinafter "the Five Contiguous Properties"), arsenic was detected in the 0-3 feet horizon in 66.1% of the soil samples at concentrations ranging from 2.2 mg/kg to 34 mg/kg. At the 102 Greenwood Street property, arsenic was detected in the 0-3 feet horizon in 64.4% of the soil samples at concentrations ranging from 3.3 mg/kg to 15 mg/kg.

Lead. Lead was detected in soils in the 0 to 3 feet horizon at concentrations that contribute to EPCs associated with His greater than 1 and/or ELCRs greater 1 x 10^{-5} for future Site conditions, generally across all of the properties with the exception of the southwestern portion of the 118 Ruggles Street property, where lead concentrations were relatively lower compared to other portions of the Site.

At the Five Contiguous Properties, lead was detected in the 0-3 feet horizon in 100% of the soil samples at concentrations ranging from 8.8 mg/kg to 2,600 mg/kg. At the 102 Greenwood Street property, lead was detected in the 0-3 feet horizon in 100% of the soil samples at concentrations ranging from 21 mg/kg to 4,600 mg/kg.

PCBs. PCBs were detected in soils in the 0 to 3 foot horizon at concentrations that contribute to EPCs associated with HIs greater than 1 and/or ELCRs greater than 1 x 10^{-5} for future Site conditions generally across the Site, with the exception of the western portion of the 102 Greenwood Street property, the 111 Greenwood Street property, and the southwest portion of the

118 Ruggles Street property, where lead concentrations were relatively lower compared to other portions of the Site. Three areas indicated concentrations of PCBs above 50 mg/kg: the northeast corner of the 102 Greenwood Street property, the eastern portion of the 101 Greenwood Street property, and in the northwest portion of the 118 Ruggles Street property. (Note, however, that initial information supplied by EPA suggests that the PCBs above 50 mg/kg may have been excavated as part of a removal action on a neighboring parcel).

At the Five Contiguous Properties, PCBs were detected in the 0-3 feet horizon in 95.6% of the soil samples at concentrations ranging from 0.04 mg/kg to 53.2 mg/kg. At the 102 Greenwood Street property, PCBs were detected in the 0-3 feet horizon in 92.6% of the soil samples at concentrations ranging from 0.07 mg/kg to 243 mg/kg.

3.3.3 Dioxin Investigative Sampling Results

On June 7-10, 2011, soil investigative sampling was conducted for PCDDs and PCDFs (collectively referred to as dioxin compounds). A total of twenty-six samples were collected from thirteen sample locations and analyzed for chlorinated dioxins by SW-846 Method 8290A, and PCB congeners by SW-846 Method 1668A.

The sampling locations selected were based on a review of all soil data collected, and from locations that provide data that are representative of potential exposures across the Site (see Section 3.1.3). At each sample location a sample was taken of the top one foot soil interval, and the one to three foot soil interval.

The sum of dioxin-like PCB Congeners TEQs and dioxin TEQs (collectively, the "TEQ Summation" calculated by ND-DL/2; EMPC=EMPC method) in the 0 to 1 foot horizon ranged from 21.8 picograms per gram (pg/g) (SB-98-4) to 142 pg/g (SB-101-8A). In the 1 to 3 foot horizon the TEQ Summation ranged from 20.2 pg/g (SB-118-3) to 596 pg/g (SB-101-5A).

A summary of the dioxin investigative soil analytical results is included in Table 3.

4.0 OBJECTIVE, PLAN & IMPLEMENTATION SCHEDULE

4.1 Objective

Work to be performed under this RAM includes:

- EPA-approved pre-excavation PCB Remediation Waste confirmatory sampling;
- Pre-characterization of PCB Remediation Waste Soil, and non-PCB Remediation Soil, for waste disposal and/or treatment requirements;
- Excavation of PCB Remediation Waste and direct loading into lined roll-offs;
- Temporary on-site storage of lined roll-off(s), if necessary;
- Excavation of non-PCB Remediation Waste soils at 102 Greenwood Street;
- Temporary on-site stockpiling of non-PCB Remediation Waste;
- On-site reuse of non-PCB Remediation Waste excavated soils;
- Off-Site disposal of excavated PCB Remediation Waste soils and non-PCB Remediation Waste Soil;
- Off-Site disposal of remediation generated wastes (i.e. decontamination solvents, rags, etc.); and
- Backfilling the excavated soil at 102 Greenwood Street with documented compliant- fill material.

- Construction of an exposure barrier at the five contiguous properties located at 101 and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street.

The objective of these RAM activities is to remove PCB Remediation Waste as defined in 40 CFR §761.3, and to mitigate the current and future risks associated with the Site soils as supported by risk calculations. A drawing illustrating the area targeted for excavation is presented in Appendix B, Figure C-103.

A summary of a risk evaluation, following the performance of RAM activities, is included in Appendix C. For risk evaluation purposes, two exposure points (EPs) have been evaluated, consistent with the approach used for the Method 3 risk characterization completed as part of the Phase II Report completed for the Site. EP-1 consists of the 5 contiguous parcels (the 101 Greenwood Street, 111 Greenwood Street, 98 Ruggles Street, 108 Ruggles Street and 118 Ruggles Street properties) and EP-2 consists of the 102 Greenwood Street property.

As part of the development of the planned activities, an analysis of potential remedial alternatives was performed, as described herein.

4.2 Analysis of Potential Remedial Alternatives

An analysis of remedial alternatives with the potential to achieve remedial objectives was performed for the Site. Based on the risk characterization provided in the Phase II Report, the remedial objective is to achieve a condition of No Significant Risk, with consideration given to the proposed future use of the site. TRC understands that the City is working with the community to evaluate future uses. In order to develop remedial alternatives that will be protective under reasonably expected reuse scenarios, TRC will assume that the remediation will ensure that exposures to potentially impacted soil are eliminated or controlled, and potential future construction worker and/or emergency utility worker exposures to potentially-impacted media are associated with a condition of No Significant Risk. A range of remedial technologies was identified as having the potential to achieve these goals. Each technology is briefly described and evaluated below.

4.2.1 Identification and Screening of Potential Remedial Technologies

The identification process focused on technologies that exhibited the potential to eliminate or significantly reduce exposure to the elevated levels of PCBs, metals, PAHs, and dioxins observed in the soil at the Site. The range of technologies includes:

No Action

The No Action alternative was included to serve as a baseline scenario for comparative evaluations. No Action assumes no additional efforts are undertaken to eliminate potential future exposures to surface and subsurface soil contamination at the Site. It appears that this alternative would not achieve a Permanent Solution. Therefore, this technology was not retained for further evaluation.

Use Restrictions/Institutional Controls

Institutional controls establish restrictions on the use of a site that may otherwise result in exposure to the impacted media that remain. Commonly, Institutional Controls are executed through the use of an Activity and Use Limitation (AUL)

AULs are commonly used at sites to maintain a Condition of No Significant Risk or No Substantial Hazard, and are used to control exposures to potentially-accessible soils.

An AUL may also be used in conjunction with other alternatives to achieve a Condition of No Significant Risk of harm to human health and the environment.
Institutional Controls have been retained as a remedial technology for use at this Site. Because the remedial objective is to achieve a Condition of No Significant Risk where potential impacted soil may remain, Institutional Controls represent an effective remedial option for restricting potential future exposures, if they are implemented concurrent with at least one other active remedial technology.

In-Situ Treatment

In-situ treatment is an option that involves "in-place" treatment of soils by physical, biological, or chemical processes. The purpose of in-situ treatment is to transfer chemicals to another media or transform/destroy chemicals into less toxic chemicals, without the need to excavate the soil first. The particular technological process selected is usually dictated by the targeted chemical. The particular in-situ applications are summarized below:

Thermal Treatment

Thermal in-situ treatment of soils is an effective method of mitigating organic compounds by increasing their volatilization. By raising the temperature of the soil with electric rods, organic compounds will more readily volatilize, and can then be captured and treated as necessary. Organic compounds are present at the Site, but these compounds are co-located with inorganic chemicals. Therefore, this method of treatment cannot address all chemicals of concern at the Site.

Vitrification

Vitrification utilizes electrodes inserted into the ground to heat the soil to a liquid state. As the soil cools it will vitrify to a glass-like solid block, trapping chemicals in the soil. In order to safely perform vitrification, surrounding soils must be dried to prevent the release of steam during the vitrification process. Remedial cost becomes incrementally high in or near wetlands areas, where the water table is close to grade/zone of treatment. Generally, vitrification requires extra safety precautions, has a limited history of practical applications, and also may result in future land use limitations, because the resulting soil block must be left intact to maintain effectiveness. Due to these concerns and limitations, vitrification is not retained as a treatment technology for use at this Site.

Chemical Oxidation

Chemical oxidation in-situ treatment may be an effective method of mitigating organic compounds. Chemicals with oxidizing properties could be introduced to the soil via direct push method, then react with and subsequently degrade the chemicals. Chemical oxidation treatment offers little benefit to this Site because it does not address all chemicals of concern.

In-Situ Stabilization

In-situ stabilization is a technology that treats impacted soil by the physical binding of chemicals to the soil particles. This method usually does not destroy the chemicals, but induces a change in the chemicals so they become less harmful and/or less mobile. Soil recycling, re-use, and/or disposal options are sometimes enhanced by stabilizing the material.

In general, the soil is mixed with binding agents and water to convert chemicals to a less soluble, mobile, or toxic form. Soils can be mixed with an excavator and treated at the surface, or injection systems can be used to treat the soil in place, without excavation. Certain areas of soil

at the Site may contain leachable concentrations of metals, pending further TCLP analysis. Should further testing produce positive results (i.e., analysis shows that soils would benefit from stabilization treatment), this technology could be used to treat the chemicals in-situ, prior to off-Site disposal/recycling. If performed, stabilization in-situ (as opposed to ex-situ) may be employed due to space limitations at the properties.

Ex-Situ Treatment/Reclamation/Recovery

Ex-situ treatment is an option that involves excavation of soils for treatment by physical, biological, or chemical processes. Ex-situ treatment transfers chemicals to another media or transform/destroys chemicals to less toxic chemicals. The specific technological process selected is usually dictated by the targeted chemical. Ex-situ treatment may be conducted on-Site or off-Site. Following treatment, the excavated soil may be returned to the place of origin, or transported to a disposal facility, depending on the success of the treatment to reduce/destroy chemical concentrations.

Ex-Situ Stabilization

At this Site, treatment of some metals in soils may be employed prior to disposal, depending on disposal characterization sampling and MassDEP requirements listed in *Policy #COMM-97-001: Reuse & Disposal of Contaminated Soil at Massachusetts Landfills*. Treatment would be similar to the method described above for in-situ stabilization, but would be performed following excavation of the soils.

Soil Washing

Reclamation and recovery is a process of soil washing that scrubs soil to remove and separate the portion of the impacted soil. Chemicals tend to sorb to certain soils such as fine-grained silt and clay. Silt and clay in turn stick to larger-grained sand and gravel. Soil washing is a process to separate the silt and clay from the larger-grained clean soils, which may decrease the soil volume requiring disposal.

Before using soil washing, soil is excavated from the impacted area and the material is sifted to remove large objects such as rocks and debris. The soil is then placed in a scrubbing unit with wash water and sometimes detergent. Output includes wash water that must be treated, impacted soil that must undergo additional treatment or landfilling, clean soil, and process emissions (which may require additional controls).

An alternative ex-situ method is with a solvent-based solution to extract soil-bound compounds. This technology has proven successful with PCBs, but is not designed to treat metals or PAHs.

Commercialization of the washing and solvent extraction processes is not yet extensive. The presence of a complex mixture of chemicals such as metals, non-volatile organics, and PAHs and a heterogeneous matrix makes it difficult to formulate single washing solutions. In addition, space limitations and the proximity to residential properties may prevent the setup of a soil

washing system, particularly at the 102 Greenwood Street property. Therefore, the soil washing/solvent extraction option was not retained for further consideration.

Containment

Containment is an option that involves covering impacted soils in place to prevent direct contact (i.e., an exposure barrier), erosion at the soil surface, and in some cases water infiltration. Excavating soil can be challenging based on site conditions and expensive, particularly when the volume of impacted soil is large. Containment through capping provides an effective and proven alternative, and is generally considered a cost-effective method for managing large volumes of impacted soil. Containment measures are designed to prevent direct contact (exposure), erosion, and depending on the chemicals, leaching.

A containment remedy could consist of a layer of soil, asphalt, or concrete, which would eliminate or minimize direct contact with the underlying soils, and which would address all chemicals. Containment represents a technology that could be utilized to reduce risk at the Site.

Removal

Physical removal addresses risk-driving compounds in soil by physically removing impacted media from the Site, and disposing or recycling it at an off-Site facility.

Excavation and off-Site disposal is a proven and commonly used method that addresses all chemicals. To meet requirements of some disposal facilities, pretreatment of the impacted media may be required. Screening of fill material is sometimes required to remove garbage and other debris.

This alternative typically targets small volumes due to the increased costs associated with excavation, transportation, and disposal fees. In addition, site restoration may be necessary, thereby further increasing costs.

Removal is identified as an effective treatment technology. At this Site, the overall volume of soil requiring mitigation could be addressed through implementation of one or more remedial technologies described above.

4.3 Selection of Remedial Action Alternative

A range of remedial technologies were evaluated for addressing the risk associated with impacted media at the Site. Several of these technologies have been proven to be effective in remediating the types of chemicals present, based on TRC experience with similar remedial events in the direct vicinity of the Site. These technologies include:

- Institutional Controls;
- In-Situ Treatment (In-Situ Stabilization);
- Ex-Situ Treatment (Ex-Situ Stabilization);
- Containment; and

- Removal

Implementation of a combination of these technologies would result in the reuse, recycling, destruction, detoxification, or otherwise treatment of the chemicals at Site to levels consistent with a Class A Response Action Outcome in a way that does not present a significant risk to health, safety, public welfare, or the environment.

The remedy for this Site will include a combination of the remedial technologies identified above and will include removal of impacted soil and use of an exposure barrier for remaining impacted soil left in place. As described in the evaluation, the selection of stabilization method (in-situ or ex-situ) will depend on further analysis through TCLP testing, and on the space available for treatment.

4.4 Site Specific Characteristics Affecting Design and Construction

Existing Site characteristics were identified and reviewed to evaluate their foreseeable compatibility with the design, construction, or operation of the remedial action. In cases where a potential conflict could arise, provisions were included in the remedial design, or modifications to the construction operations were specified.

4.4.1 Relationship to Existing Site Activities and Operations

Current activities and operations at the Site are minimal. The Site is currently vacant and consists of grassed areas and some trees, the majority of which are enclosed by chain link fencing. A small portion of the Site exists outside the fence line adjacent to the pavement surfaces on Ruggles Street, Greenwood Street, and Hathaway Boulevard. A church is located to the south of the 102 Greenwood Street Property. Single-family residences exist to the southwest and west of the Site, and the New Bedford High School is located to the east, across Hathaway Boulevard. Work will be conducted during normal work hours, Monday through Friday, to minimize disruption to the surrounding area.

Municipal utilities exist beneath the paved roadways, and in some cases extend beneath the grassed surfaces of the City rights-of-way. Excavation adjacent to existing water lines, hydrants, utility poles, and guy wires will proceed with hand tools. Monitoring wells not identified for removal will be protected during excavation, and risers will be installed during backfilling activities, extending them to final grades. Care will be taken with all equipment to avoid overhead wires.

A 20-inch sewer line extends beneath the grassed right-of-way adjacent to the northern portion of Hathaway Boulevard. Invert elevations suggest that this line is greater than twelve feet deep, and will not be encountered during excavations.

During remediation and construction, temporary fencing will be installed around the perimeter of the Site where existing fencing does not provide a sufficient buffer for work to proceed to the property boundary. The fencing will be installed using on-grade supports, and will not penetrate

the ground surface. The fencing will prevent unauthorized access to this portion of the Site and promote public safety. See Figure C-102 in Appendix B for further detail

4.4.2 Drainage Features

Surface topography generally slopes to the east/northeast, with the exception of the southeastern portion of the five contiguous properties, where it slopes to the southeast. It is anticipated that surface run-off during construction will flow in this direction, so erosion control measures have been proposed along the north and eastern boundary of the Site, as well as other areas downgradient of soils that may potentially be exposed during site work. Areas used to stockpile soils will be surrounded with straw bales.

Existing roadways are crowned at the center, and shed water to the edges. Surface flows are either directed along granite curbing or through roadside depressions to the municipal stormwater collection system. Paved surfaces will be monitored frequently throughout remedy implementation, and loose soils and spills will be cleaned up immediately.

Municipal subsurface drainage features exist in the vicinity of the Site. On Ruggles Street, two catch basins are located approximately 215 feet west of the intersection with Hathaway Boulevard. Two catch basins are also located on Greenwood Street approximately 50 feet west of the intersection with Hathaway Boulevard. Because these four catch basins are located downgradient of soils that will be disturbed during remediation, they have been identified for protection against sedimentation. The catch basins will be surrounded with straw bales, and geotextile fabric will be installed beneath the grates. Protection details are included in Appendix B.

Based on existing topography, surface run-on will occur from neighboring properties along the southern and/or western boundaries of 102 and 111 Greenwood Street, and 118 Ruggles Street. Where possible, run-on will be diverted away from exposed soils during construction, as described in Appendix B.

The existing surface contours on the property to the west of 111 Greenwood Street property are not anticipated to change during construction. Following construction, this area will continue to direct surface run-off northeasterly into the western edge of the soil exposure barrier. To reduce the potential for ponding, surface grading will be incorporated into the shape of the exposure barrier to direct this run-off southerly to Greenwood Street, as noted in Appendix B.

4.4.3 Natural Resource Areas

No natural resource areas currently exist at the Site.

4.4.4 Soil and Groundwater Characteristics

Certain areas of Site soil are regulated under TSCA. These areas exhibit concentrations of PCBs greater than or equal to 50 mg/kg. To meet the requirements of TSCA in addition to the requirements of the MCP, these soils were targeted for excavation in the design plans. For soil

management purposes, these soils will be placed directly into roll-off containers following excavation or live loaded.

Existing Site soils that will remain following remediation are not anticipated to be adversely affected by the design or construction of the remedy. Subgrade soils will be covered by a minimum of three feet of clean material, and the final surface will be seeded with grass to prevent erosion and for aesthetics.

Groundwater beneath the Site is not anticipated to be encountered during the design. The depth to groundwater has been measured at an elevation below the bottom of the deepest proposed excavation area. Therefore, excavation dewatering and treatment is not anticipated.

4.5 Plan

The aforementioned RAM activities proposed to remove PCB Remediation Waste as defined in 40 CFR §761.3, and to achieve a condition of No Significant Risk at the Site are detailed in this section of the plan.

4.5.1 Soil Excavation/Removal

RAM activities for the Site include soil excavation, confirmatory sampling where required, off-site disposal of PCB Remediation Waste, temporary on-site stockpiling of non-PCB Remediation Waste soil, and/or on-site re-use of non-PCB Remediation Waste. Safety, security and erosion/sedimentation control measures will be implemented prior to remedial activities. Access to the east end of Greenwood Street will be blocked off during remedial activities as identified in Appendix B, Figure C-102.

Following soil removal, the excavations will be backfilled with compliant backfill, topped with approximately six inches of compliant loam, and re-seeded or finished with the installation of new sod. Imported materials will be considered compliant if the source has documentation that the following analyses were performed and any detections encountered were below the current MCP RCS-1 standards and in compliance with MassDEP's anti-degradation policy:

- Volatile Organic Compounds via SW-846 Method 8260B;
- Semivolatile Organic Compounds via SW-846 Method 8270C;
- Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons via MassDEP methodologies;
- Polychlorinated Biphenyls via SW-846 Method 8082;
- RCRA-8 Metals (via SW-846 Methods 6010B/7471A); and
- Pesticides/Herbicides via SW-846 Methods 8081B/8151A.

Lacking such documentation, the City may undertake sampling and analysis to guard against importation of impacted soil and evaluate the suitability of the soil for its intended use.

Soil excavation will take place in two steps. First, soil categorized as PCB Remediation Waste will be removed. Second, additional soil will be removed to accomplish MCP risk reduction goals. All customary utility mark-out procedures, including the use of Dig-Safe, will be employed to ensure that no utilities are located within the vicinity of remedial activities, or if utilities are present, to help guide contingency actions. Locations of known and identified utilities will be clearly marked.

4.5.1.1 Excavation of PCB Remediation Waste Soil

The following outlines the approach to the excavation of PCB Remediation Waste Soil, which is subject to EPA review and comment/approval:

Six areas have been targeted for removal of PCB Remediation Waste soils. The vertical and horizontal extents of impacted soils to be removed are based on the current PCB data available and are identified in Appendix B, Figure C-103. The sample and/or test pit targeted, and the approximate total volume of soil to be excavated (246 cubic yards) is summarized below by area:

- Area 1 (SB-102-6) – 4.2 cubic yards
- Area 2 (SB-185, SB-102-8A, SB-102-B, SB-102-8C, and SB-102-8D) – 55.1 cubic yards
- Area 3 (H2) – 15.7 cubic yards
- Area 4 (TP101-H, TP101-I) – 116.7 cubic yards
- Area 5 (TP101-C, TP101-F, TP101-G) – 50 cubic yards
- Area 6 (SB-101-6B) – 4.2 cubic yards

Prior to excavation, confirmation sampling will be performed in-situ at the sample grid locations identified in Appendix B, Figure C-103 in accordance with 40 CFR §761 (Subpart O) as described below. The impacted soil is to be directly loaded into a lined roll-off and transported off-site for disposal at an appropriately licensed landfill conforming to the requirements of 40 CFR Part 761.75. Excavated soils will be managed as described in the *Soil Management Plan* in Appendix D.

Additional samples will be taken at sample locations SB-101-4D and SB-101-6A in light of previous sample results approaching 50 mg/kg total PCBs (49.2 mg/kg and 42.4 mg/kg, respectively), to evaluate if these locations could have total PCB concentrations of 50 mg/kg or greater, thus requiring excavation. At each of the locations, three borings will be placed surrounding the locations as identified in Appendix B, Figure C-103. Samples will be taken at sample locations SB-101-4D and SB-101-6A at 3-5 feet, and 5-7 feet, and at the locations surrounding the sample locations at 3-5 feet, 5-7 feet, and 7-9 feet, and analyzed for total PCBs. If any of these samples indicate a concentration greater than or equal to 50 mg/kg total PCBs, the locations will be excavated. If this scenario occurs, confirmatory grab samples will be taken from the sidewalls at a frequency of one sample per 1.5 meters of sidewall.

Additional pre-excavation confirmatory samples would be collected if any confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs. The lateral and

vertical limits of these excavations would be based on acceptable confirmatory results, and over excavated 6 inches as a conservative measure.

Confirmation grab samples will be collected in-situ in advance of excavation at the sample grid locations identified in Appendix B, Figure C-103. Confirmation samples will be taken in accordance with 40 CFR §761.283 to evaluate excavation limits sufficient to remove all PCB Remediation Waste soils. Confirmatory samples will be collected as follows and submitted for laboratory analysis of PCBs by SW-846 Method 8082A:

- One sample per 1.5 meters of sidewall;
- One sample in the center of each 1.5 meter grid at the bottom of the excavation.

Confirmatory grab samples will not be taken at the bottom of excavations that have prior PCB data delineating the extent of horizontal impacts, or where the bottom of the excavation is to native material.

Additional pre-excavation confirmatory soil samples will be collected if any confirmatory sample result indicates a concentration greater than or equal to 50 mg/kg, or if additional excavation is required to achieve MCP risk reduction goals.

Once confirmation grab samples determine the limits of PCB impacted soils greater than 50 mg/kg, excavation of soils will be performed. As a conservative measure , the pre-determined excavation limits will be over excavated 6 inches beyond the aforementioned limits where field conditions allow.

Excavations shall be sequenced such that areas of lower-levels of PCB impacted soils over 50 mg/kg are excavated first, and proceed incrementally relative to concentration finishing with areas of high-levels of PCB impacted soils as Site conditions allow, or as directed by the Licensed Site Professional.

All records of the excavation, confirmatory sampling, manifests, and certificates of disposal for this performance-based disposal activity will be maintained and included in either a MCP RAM Status Report, or a MCP RAM Completion Report, as appropriate. The RAM-related MCP documents will be available for inspection at any time by a representative of the EPA at the MassDEP Office located in Lakeville, Massachusetts and on the City's website.

Representative quality control samples will also be collected during implementation of this excavation. This will include field duplicate, matrix spike and matrix spike duplicate samples collected at a frequency of one per twenty samples. Sampling equipment will be decontaminated as described below.

Analytical data collected during the previous investigations from the excavation areas may be used to obtain pre-approval of soil acceptance, where necessary, from a disposal facility prior to excavation activities to allow live loading of the soils. This may be supplemented by further soil data collection in advance of soil shipment to satisfy specific facility acceptance criteria, where needed. As a contingency, loaded roll-off containers may be sampled and analyzed prior to off-

site disposal transport to satisfy facility acceptance criteria; however, the City's preference is to conduct the soil removal as a live load project.

Equipment that comes into direct contact with soils determined to be actual or potential PCB Remediation Waste will be decontaminated by one of the methods referenced below.

- Self-Implementing Decontamination Procedures, as set forth under 40 CFR Part 761.79(c); or
- Aqueous cleaning followed by verification sampling as set forth under 40 CFR Part 761, Subpart P.

The City proposes a prescriptive decontamination approach per 40 CFR Part 761.79(c)(2)(ii) that will avoid delays due to laboratory turn-around for verification wipe sampling. The actual procedures implemented will be documented in the RAM Status and/or Completion Report, but will rely on the swabbing of moveable equipment, tools and sampling implements that have contacted PCBs/PCB Remediation Waste with a solvent.

Regardless of the selected decontamination method, tools, moveable equipment, and sampling implements that comes into direct contact with soil determined to be actual or potential PCB Remediation Waste will be decontaminated prior to leaving the Site.

4.5.1.2 Excavation to Complete MCP Risk Reduction at 102 Greenwood Street

Following completion of the excavation of PCB Remediation Waste as identified in Section 4.2.1.1, soils will be excavated at 102 Greenwood Street as identified in the figure presented in Appendix B, Figure C-103, to accomplish the MCP risk reduction goals. Approximately 942 cubic yards of soil will be removed to a depth of 3 feet and backfilled with compliant fill.

Delineation sampling will occur at sample identification SB-102-5D for lead, given the detection of lead at a concentration of 3,600 mg/kg at 5-7 feet. Additional soil will be excavated at this location following delineation. The estimated volume of soil to be excavated is 5.5 cubic yards. The excavation location is identified as Area 7 in Appendix B, Figure C-103.

The impacted soil is planned to be directly loaded into a lined roll-off and transported off-site for disposal at an approved landfill. Excavated soils will be managed as described in the *Soil Management Plan* in Appendix D. Analytical data collected during the previous investigations, and supplemental in-situ waste characterization sampling, from the excavation areas will be used to obtain pre-approval of soil acceptance, where necessary, from a disposal facility prior to excavation activities. The temporary storage of the excavated soils in a roll-off at an on-site location is not anticipated, but is retained as an option should it be logistically necessary to meet project needs. Under this scenario, soil in roll-off containers may be sampled and analyzed prior to off-site disposal transport where needed to characterize the soils for evaluation of disposal options.

The planned excavation areas, as shown in the figure provided in Appendix B Figure C-103, will be marked prior to remedial activities. All other customary utility mark-out procedures,

including the use of Dig-Safe, will be employed to ensure that no utilities are located within the vicinity of remedial activities. Locations of known and identified utilities will be clearly marked.

During soil removal activities, controls will be employed to monitor and control impacted soils. Such controls include air monitoring and dust suppression for fugitive dust, control of precipitation run-on and run-off and decontamination of equipment and vehicles that contact impacted soil.

Off-site transport of impacted materials via vehicle traffic will be controlled through removal of soil materials from the body and tires of all vehicles prior to exiting the Site. Vehicles will be visually inspected to ensure no visible soil materials are present on the body or on the tires.

During excavation activities, site health and safety monitoring will be conducted in accordance with the Health and Safety Plan (HASP). Security will be maintained to prevent access by unauthorized and non-essential personnel within the work area. Excavation dewatering is not anticipated to be necessary as the proposed limit of the excavation is above the groundwater table. Measures will be implemented to minimize impacts to the environment.

Prior to excavation at the Site, hay bales will be deployed to control runoff.

Once excavation activities are completed, backfilling will occur. The aforementioned compliant granular replacement material and topsoil from off-site sources will be used as the backfill materials. Prior to backfilling, a black separation fabric will be placed at the bottom of the excavation, and an orange warning layer will be placed following the addition of one foot of fill identified in Appendix B Figure C-105. The fill will be placed into the excavation and built up in successive layers until the required elevations are reached. The fill will be brought up on essentially level lifts not exceeding twelve inches in un-compacted thickness and will be compacted by standard methods. Each lift of material will be compacted so as to secure a dense, stable and thoroughly compacted mass. Filling operations will continue until the fill has been brought up to the finished grade, making proper allowances for six inches of topsoil, and re-seeding.

4.5.1.3 Excavation and Exposure Barrier Construction at the Five Contiguous Properties.

At the Five Contiguous Properties (101 and 111 Greenwood Street, and 98, 108 and 118 Ruggles Street), soils will be excavated from the perimeter of the area in support of construction of a three foot deep exposure barrier as identified in Appendix B Figure C-103. These soils will be temporarily stockpiled as necessary, until graded as shown in the Subgrade Grading Plan in Appendix B, C-104. Perimeter soils may also be utilized as backfill for the PCB Remediation Waste excavations to a subgrade level. Prior to construction of the exposure barrier, a black separation fabric will be placed on the surface, and an orange warning layer will be placed following the addition of one foot of fill as identified in Appendix B Figure C-105.

4.5.2 Dust Suppression

During activities that involve the movement or other disturbance of potentially impacted soils, dust suppression consisting of water sprays will be routinely applied, and potential fugitive dust emissions will be monitored simultaneously (see Section 6.4). Water sprays will be applied as a heavy mist, rather than a water stream, to ensure the water is aerosolized to maximize dust capture/interception and thus suppression. Increased water sprays (e.g., additional hoses and/or water volume) will be implemented based on visual observations of effectiveness and instrumented monitoring. Where wind conditions are present that render dust suppression ineffective based on instrument readings and/or visual observations (based on the professional judgment of environmental oversight personnel), those activities will be suspended until favorable wind conditions resume/return or dust suppression suitable for the conditions can be reliably implemented.

4.6 Implementation Schedule

The RAM activities are scheduled to begin upon approval of this plan and be completed in approximately 12 weeks. TRC anticipates submittal of a RAM Completion Report within 60 days of the completion of all RAM activities, or a RAM Status Report if the outcomes of activities do not warrant a RAM Completion Report.

5.0 REMEDIATION WASTE MANAGEMENT STATEMENT

This section describes procedures for the on-site management and off-site reuse, recycling, and/or disposal of remediation waste generated during this RAM. Remediation waste management will be conducted in accordance with the applicable sections of the MCP, MassDEP *Interim Remediation Waste Management Policy for Petroleum Contaminated Soils*, WSC-94-400 and MassDEP Policy COMM#97-001 *Reuse and Disposal of Contaminated Soils and Sediments at Massachusetts Landfills*, and 40 CFR Part 761, where applicable.

The estimated volume of excavated soil that could be potentially transported from the Site as part of this RAM is approximately 1,198 cubic yards. The *Soil Management Plan* provided in Appendix D outlines the plan for soil management at the Site.

5.1 On-Site Soil Management

Impacted soil excavation will take place with qualified field oversight personnel. Contractors will be required to implement means to prevent fugitive dust generation (e.g., water sprays).

Excavated soils associated with the RAM will be either direct loaded for off-site disposal, or temporarily stockpiled on-site. Analytical data collected during the previous excavations and supplemental in-situ waste characterization sampling from the excavation areas will be used to obtain pre-approval of soil acceptance, where necessary, from a disposal facility prior to excavation activities.

The soil may be segregated into the following soil types by the degree of impact and proposed disposal facility:

- Type A Soil (PCB concentration greater than or equal to 50 mg/kg) – Type A soil exhibits a PCB Concentration greater than or equal to 50 mg/kg and is not expected to be RCRA Characteristic Hazardous. If analytical data indicate soil is RCRA Characteristic Hazardous, soils may be treated on-site to render it non-RCRA Characteristic Hazardous. This soil will be either disposed of at a licensed TSCA chemical waste landfill if the soil is treated and the treatment is effective in rendering the soil non-RCRA Characteristic Hazardous, or a licensed TSCA/RCRA chemical waste landfill.

- Type B Soil (PCB concentration greater than 2 mg/kg but less than 50 mg/kg and potentially RCRA Characteristic Hazardous) – Type B soil exhibits a PCB concentration greater than 2 mg/kg but less than 50 mg/kg, and exhibits metals concentrations greater than 20 times the TCLP limits. If TCLP analysis data indicates soils are RCRA Characteristic Hazardous, soils may be treated on-site to render the soils non-RCRA Characteristic Hazardous. This soil will be disposed of at an appropriately licensed facility.
- Type C Soil (PCB concentration less than 2 mg/kg and potentially RCRA Characteristic Hazardous) – Type C soil exhibits a PCB concentration less than 2 mg/kg and exhibits metals concentrations greater than 20 times the TCLP limits. If TCLP analysis data indicates soils are RCRA Characteristic Hazardous, soils may be treated on-site to render

the soils non-RCRA Characteristic Hazardous. This soil will be disposed of at an appropriately licensed facility.

- Type D Soil (PCB concentration greater than 2 mg/kg but less than 50 mg/kg and non-RCRA Characteristic Hazardous) – Type D soil exhibits a PCB concentration greater than 2 mg/kg but less than 50 mg/kg, and does not exhibit metals concentrations greater than 20 times the TCLP limits. This soil will be disposed of at an appropriately licensed facility.
- Type E Soil (PCB concentration less than 2 mg/kg and non-RCRA Characteristic Hazardous) – Type E soil exhibits a PCB concentration less than 2 mg/kg and does not exhibit metals concentrations greater than 20 times the TCLP limits. This soil will be disposed of at an appropriately licensed facility.

Soils types are further discussed in the *Soil Management Plan* provided in Appendix D. The Site or work area will be secured by a temporary fence around the perimeter that limits unauthorized entry and contact with materials by trespassers. Lined and covered roll-offs will be used for PCB Remediation Waste. The roll-offs will be lined with polyethylene and covered to prevent leakage and storm water accumulation. Roll-offs will be of a specification that allows over the road transport of the soils conveyed therein as a contingency.

5.2 Off-Site Re-use, Recycling, and/or Disposal

Excavated soil that will be transported from the Site will be characterized as appropriate for off-site reuse, recycling, and/or disposal at a suitable facility. Several suitable off-site facilities are being considered, but the facility locations have not been finalized and will be coordinated through the City's selected remediation contractor. Analytical data collected at the Site during the previous investigations, and supplemental in-situ waste characterization sampling, will be used to explore disposal and pre-treatment options. The soil sample laboratory data will initially be compared against Massachusetts reuse, recycle, and disposal criteria in accordance to MassDEP Policy# COMM-97-001 and Interim Policy #WSC-94-400.

Use of MassDEP COMM-97-001 and WSC-94-4000 tabulated acceptance criteria values does not preclude the use of out-of-state facilities that offer similar reuse (e.g., landfill daily cover) or recycling (e.g., asphalt batch) opportunities. Such opportunities may be evaluated and/or utilized on a case-by-case basis assuming facility acceptance criteria can be met and the facility is currently permitted within its regulatory jurisdiction for the reuse and/or recycling service provided.

Soils determined to be PCB Remediation Waste will be loaded and transported off-site for disposal in accordance with 40 CFR Part 761.61 following approval by the EPA.

Transportation of all materials from the Site will be performed using a MassDEP Bill of Lading (BOL), Material Shipping Record (MSR) or Hazardous Waste Manifest, as appropriate, and will be performed within 120 days of stockpiling in accordance with 310 CMR 40.0030 of the MCP.

The transport of impacted materials from the Site to the disposal facility will be in accordance with all DOT, EPA, and MassDEP regulations, as appropriate. The hauler(s) will be licensed in all states affected by the transport of Site soil.

6.0 ENVIRONMENTAL MONITORING PLAN

TRC personnel will be on-site during the excavation and off-site transport for reuse, recycling and/or disposal of contaminated soil and will conduct environmental monitoring activities as described herein.

This section summarizes the protective measures that will be employed to minimize and control any potential pollution releases and to preserve environmental conditions at the Site.

Remedial activities at the Site will be conducted in the areas shown in figures provided in Appendix B Figure C-103. All applicable work zones will be delineated and maintained throughout the duration of the project to closely monitor site activities, quality control and safety to ensure that the project objectives are achieved. In addition, access to the work zone will be regulated to prevent unauthorized entry.

6.1 Protection of Land Resources

The activities covered under this environmental monitoring plan specifically include all areas associated with soil excavation activities at the Site. Protection of areas will be performed during mobilization, excavating, staging, and treatment of materials and demobilization. Disturbed areas will be restored as necessary to their existing condition or end-use condition following completion of remedial activities.

All trucks and heavy equipment will be decontaminated prior to leaving the Site to ensure that any loose soil debris does not impact outside properties. All heavy equipment will be decontaminated at an area that will be established in advance. This area will be used to support dry decontamination procedures (i.e., brushing-off of soil, etc.). All vehicles/equipment leaving the Site must stop and be inspected by TRC to ensure any excess soil or debris is removed from the vehicle and its tires.

6.1.1 Temporary Protection of Disturbed Areas

Preventative erosion and sedimentation control measures will be implemented in order to limit and retard run-off within the established work zone limits as necessary based on field observations. All disturbed areas will be protected as described in the Erosion Control and Sedimentation procedures in Section 6.1.2.

6.1.2 Erosion and Sedimentation Control Procedures

Erosion and sedimentation controls may be installed as shown in figures located in Appendix B Figure C-102, depending on field observations. Sedimentation areas will be inspected daily to maintain compliance and to avoid siltation of surface water and groundwater. At the completion of remedial activities, all sedimentation and erosion control measures will be removed and the area will be restored to its existing condition.

6.1.3 Soil Stockpile

Prior to excavation work, a storage area will be established for non-PCB Remediation Waste, and clearly designated on-site for certain excavated soil for reuse on-site. The stockpiled soil will be covered with 6-mil (or higher) gauge polyethylene sheeting and will be surrounded by straw bales and/or silt fencing to prevent runoff. The polyethylene will be adequately secured to prevent damage or loss by wind or other elements. In the event of extreme weather conditions, additional actions will be taken to ensure appropriate containment of stockpiled soils. Surface water runoff will be directed away from the stockpile to prevent erosion and deterioration of materials. The stockpiles will not exceed 35 feet in height with maximum side slopes of 2:1 (horizontal: vertical).

6.2 Noise Protection

Protection against the effects of noise exposure will be provided when the sound levels exceed those limits as established by 29 CFR 1929.52 (Occupational Noise Exposure Standards). TRC will provide hearing protection to employees involved in the remedial activities to minimize potential exposures.

6.3 Field Screening Associated with Soil Removal

Field screening of soil will be conducted as part of the RAM to monitor soil conditions and excavation progress.

6.3.1 Jar-Headspace Field Screening of Soils

Although VOCs are not COCs for Site soil targeted by this RAM Plan, as a precaution, soil samples may be periodically screened via the MassDEP jar-headspace method for the potential presence of VOCs based on professional judgment.

6.4 Air Monitoring

On-site air monitoring will be conducted to evaluate Site working conditions to minimize exposures to workers and nearby residents, as well as to collect and record data in general.

6.4.1 Instrumented Air Monitoring for Dust

Air monitoring will be performed using a combination of real-time dust monitoring upwind and downwind of the work area, and at a point near the closest receptor.

When impacted soils are encountered during RAM-related contaminated soil excavation and management activities, real-time field screening of breathing zone dust levels will be conducted using direct reading instruments that are designed to monitor air quality on a real-time basis. A second instrument will be used to monitor dust levels downwind of the excavation. A third dust monitor will be placed towards the nearest receptor, regardless of wind direction.

The dust monitoring units will be TSI Dustrak™ units, or equivalent, equipment with size-selective inlet for particles of 10 micrometers in diameter or less (PM_{10}). Background samples will be collected for at least 15 minutes at each location prior to the start of site activities. The continuous dust monitor uses a light scattering photometer to quantify particles and converts the counts to a concentration in units of milligrams per cubic meter (mg/m^3). This instrumentation has an accuracy of 0.001 mg/m^3. The dust monitoring instruments will be placed in weatherproof cases with an omni-directional probe to minimize wind interference. The dust monitoring instruments will be zeroed daily before use and at the end of the day. Data will be logged at 60-second intervals and will be monitored periodically by field personnel during RAM-related excavation activities. Data will be downloaded daily.

If sustained ambient dust levels exceed the EPA National Ambient Air Quality Standard of 150 $\mu g/m^3$ at downwind sampling locations (a sustained reading would consist of a reading lasting 15 minutes or longer), dust suppression activities will be increased with a greater usage of water sprays. Monitoring levels are subject to change and may be made more stringent as additional soil data are obtained and evaluated.

As noted in Section 4.2.6, during activities that involve the movement or other disturbance of potentially impacted soils, dust suppression consisting of water sprays will be routinely implemented, and potential fugitive dust emissions will be monitored simultaneously. Increased water sprays (e.g., additional hoses and/or water volume) will be implemented based on visual observations of effectiveness and instrumented monitoring. Where wind conditions are present that render dust suppression ineffective based on instrument readings and/or visual observations (based on the professional judgment of environmental oversight personnel), those activities will be suspended until favorable wind conditions resume/return or dust suppression suitable for the conditions can be reliably implemented.

6.4.2 Instrumented VOC Air Monitoring

VOC air monitoring will be performed using a PID to monitor for the presence of VOCs within the work area breathing zone. Based on previously existing site data, significant VOC emissions are not expected during construction, but field monitoring of the breathing zone for VOCs will be conducted as a precaution.

Instrument readings from breathing zones within the work zone will be used to help evaluate the need for instituting additional safety measures or upgrading personal protective equipment (PPE) levels.

6.4.3 Instrumented Meteorological Monitoring

A portable digital meteorological station will be deployed during the execution of the RAM to monitor and record temperature, wind speed and direction, wind chill, and daily and accumulated rainfall, barometric pressure, humidity, and dew point. These data will be collected continuously and downloaded for record preservation regularly. Field oversight personnel will also periodically manually record instrument readings during the progress of the work to monitor field conditions and to check the real-time data against the recorded data. Conditions at the time

of a weather-related suspension of field activities (e.g., excessive winds impacting the effectiveness of dust suppression) will also be recorded manually and checked against the data recorded by the instrument.

7.0 FEDERAL, STATE & LOCAL PERMITS

7.1 Federal Permit Requirements

There are no known Federal environmental permit requirements. A *Request for Concurrence on Regulatory Opinion, Remediation of Polychlorinated Biphenyl (PCB) Impacted Soils* letter was issued to the United States Environmental Protection Agency (EPA) on August 15, 2012. Supplement information was supplied to EPA on November 2, 2012. EPA issued a response on December 10, 2012. A copy of the letters are included in Appendix A.

7.2 State Permit Requirements

There are no known State environmental permit requirements.

7.3 Local Permit Requirements

There are no known Local environmental permit requirements.

7.4 Miscellaneous Fees, Notices, and Transportation Documentation

Because the Site is not Tier Classified under the MCP, an $800 RAM Plan fee must be submitted to MassDEP concurrent with this RAM Plan. The $800 fee has been submitted to the MassDEP lock box at DEP, P.O. Box 4062, Boston, MA, 02211-4062. Appendix E contains a copy of the check for the RAM Plan fee for documentation purposes.

Massachusetts Dig-Safe must be notified at least 72 hours prior to commencing the excavation activities described in this RAM Plan. The City or City's contractor will be responsible for construction/refurbishment related Dig-safe notifications.

All soil material that is transported from the Site must be transported under a MassDEP BOL that contains the signature and seal of the LSP of record for the site, or under a MSR or hazardous waste manifest as appropriate.

8.0 SEAL & SIGNATURE OF LICENSED SITE PROFESSIONAL

The Licensed Site Professional (LSP) overseeing this RAM is:

David M. Sullivan, LSP
LSP License Number: 1488
TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854
(978) 656-3565

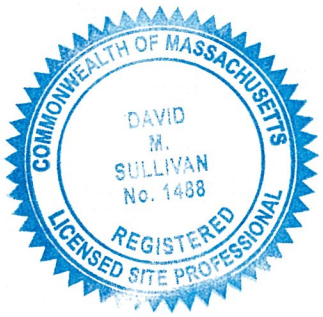
This RAM Plan has been prepared in accordance with 310 CMR 40.0444 as set forth in the MCP.

David M. Sullivan

David M. Sullivan, LSP
TRC Environmental Corporation
Licensed Site Professional No. 1488

Dec 18, 2012

Date



Stamp

9.0 CERTIFICATION OF FINANCIAL RESOURCES

In accordance with 310 CMR 40.0442(5) of the MCP, the City of New Bedford attests to the availability of sufficient financial resources for the transportation and recycling or disposal of excess and unsuitable soils.

10.0 OTHER RELEVANT INFORMATION

10.1 Public Involvement

As required by 310 CMR 40.1403(3)(d), the Mayor and the Board of Health for the City of New Bedford were notified in writing of the proposed RAM activities. Copies of the notification letters that were sent to the Mayor and Board of Health are provided in Appendix F.

Public involvement was performed in accordance with the *Public Involvement Plan, Parker Street Waste Site, New Bedford, Massachusetts,* dated June 2012.

TABLES

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							101 Greenwood St				101 Greenwood St			101 Greenwood St			101 Greenwood St		
		Sample Location:						101 Greenwood St				101 Greenwood St			101 Greenwood St			101 Greenwood St		
		Sample ID:						101 Comp 1				101 Comp 2			101 Comp 3			101 Comp 4		
		Sample Depth (ft.):						0-3	3-6	3-6	6-native	0-3	3-6	6-native	0-3	3-6	6-native	0-3	3-6	6-native
		Sample Date:						12/19/2005	12/19/2005	12/19/2005 Field Dup	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.061 U	0.063 U	NA	0.068 U	1.4	0.62 U	0.092 U	0.065	0.21	0.071 U	0.6	0.069	4.1
	Acenaphthylene	600	10	600	10	1	N/A	0.061 U	0.063 U	NA	0.068 U	0.32	0.62 U	0.092 U	0.17	0.2	0.81	1.4	0.1	0.24
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.11	0.069	NA	0.092	3	0.62 U	0.092 U	0.29	0.68	0.53	3.3	0.18	4.8
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.36	0.2	NA	0.18	4.2	0.7	0.14	0.75	2	1.9	4.4	0.77	9.3
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.37	0.23	NA	0.15	3.8	0.69	0.15	0.71	1.9	1.7	4.2	0.79	9.7
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.48	0.25	NA	0.23	5.5	0.93	0.26	1.1	2.6	2.8	6.3	1.2	9.9
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.25	0.18	NA	0.11	1.3	0.62 U	0.092 U	0.24	0.63	0.5	1.7	0.42	3.6
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.15	0.11	NA	0.075	1.2	0.62 U	0.092 U	0.39	0.84	0.99	1.2	0.34	2.8
	Chrysene	70	70	400	400	70	N/A	0.31	0.2	NA	0.16	3.4	0.62 U	0.13	0.61	1.8	1.5	3.5	0.69	7.7
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.068	0.063 U	NA	0.068 U	0.44	0.62 U	0.092 U	0.094	0.21	0.23	0.47	0.13	1.2
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.76	0.41	NA	0.43	5.5	1.6	0.27	1.6	3.6	4.1	6	1.5	9.5
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.061 U	0.063 U	NA	0.068 U	2.5	0.62 U	0.092 U	0.076	0.24	0.25	1.9	0.062 U	4.8
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.25	0.18	NA	0.11	1.5	0.62 U	0.092 U	0.31	0.65	0.74	2	0.45	4.2
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.061 U	0.063 U	NA	0.068 U	0.54	0.62 U	0.092 U	0.061 U	0.099	0.084	0.17	0.062 U	1.8
	Naphthalene	40	500	40	1,000	4	N/A	0.061 U	0.063 U	NA	0.068 U	1.4	0.62 U	0.092 U	0.061 U	0.12	0.071 U	0.19	0.062 U	7.7
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.39	0.26	NA	0.31	6.5	1	0.13	1	2.9	2.9	7.1	0.88	10
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.79	0.45	NA	0.4	4.9	1.2	0.24	1.4	2.5	3	4.5	1.2	8.7

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
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New Bedford, Massachusetts

Analysis	Analyte							101 Greenwood St				101 Greenwood St			101 Greenwood St			101 Greenwood St		
							Sample Location:	101 Greenwood St				101 Greenwood St			101 Greenwood St			101 Greenwood St		
							Sample ID:	101 Comp 1				101 Comp 2			101 Comp 3			101 Comp 4		
							Sample Depth (ft.):	0-3	3-6	3-6	6-native	0-3	3-6	6-native	0-3	3-6	6-native	0-3	3-6	6-native
							Sample Date:	12/19/2005	12/19/2005	12/19/2005 Field Dup	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	4.23	10	9.53	14	3.92	25	8.9	5.09	12	10	5.6	4.95	1.65
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	191	317	233	1160	277	226	169	251	749	405	349	205	34
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	2.23	2.5	2.36	24	1.26	15	224	2.05	113	40	2.66	7.47	0.55 U
	Chromium	30	30	200	200	30	N/A	20	16	13	441	18	29	26	19	33	19	27	20	6.82
	Lead	300	300	300	300	300	N/A	496	1240	755	454	346	1520	2070	1020	6780	1390	553	1040	4.51
	Mercury	20	20	30	30	20	N/A	0.45	0.277	0.336	0.318	0.165	0.316	0.198	0.405	0.636	0.221	0.659	0.527	0.738
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	0.77 U	0.78 U	1.52	8.18	0.7 U	0.81 U	1.14 U	1.29	0.88 U	ND	0.98	1.46	1.1 U
	Silver	100	100	200	200	100	N/A	0.38 U	0.39 U	0.38 U	0.44 U	0.35 U	0.4 U	0.57 U	0.38 U	18	0.68	0.35 U	0.41 U	0.55 U
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	105	66	NA	108	144	303	134	100	489	703	124	652	354
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	0.49	0.68	1.27	0.11	0.42	2.17	2.26	0.84	24	2.34	0.31	0.69	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St			101 Greenwood St		101 Greenwood St	101 Greenwood St	101 Greenwood St			101 Greenwood St			
								Sample ID:	101 Comp 5			101 Comp 5[1]		Front Comp	Rear Comp	D.5-2			D.5-3			
								Sample Depth (ft.):	0-3	3-6	6-native	0-3	3-6	UN	UN	2-3	3-6	6-9	1-3	1-3[1]	3-6	6-9
								Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	2/6/2006	2/6/2006	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
VOCs																						
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	0.054 U	0.09 U	0.13 U	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	0.054 U	0.09 U	0.13 U	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	0.27 U	0.45 U	0.67 U	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	0.054 U	0.09 U	0.13 U	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	0.054 U	0.09 U	0.13 U	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	0.054 U	0.35	0.13 U	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	0.054 U	0.09 U	0.13 U	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	0.11 U	0.18 U	0.27 U	NA	NA	NA	NA
VPH																						
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																						
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	0.058 U	0.059 U	ND	ND	ND	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.11	0.69	33	ND	0.58	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		0.15	0.17	1.6	ND	ND	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.38	2.5	57	ND	1.9	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.92	4.6	67	1.2	4.7	0.21	0.15	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.89	4.1	69	1.1	4.4	0.17	0.11	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		1.1	6.6	64	1.3	5.9	0.14	0.076	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.57	2	31	0.55	0.72	0.14	0.093	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.49	1.3	26	0.47	2.1	0.15	0.12	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		0.76	3.7	54	0.97	3.9	0.16	0.11	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.17	0.51	8.9	ND	ND	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		2.3	7	170	2.6	9.6	0.38	0.29	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.11	0.88	41	ND	0.83	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.64	2.1	35	0.68	1.1	0.11	0.082	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.062 U	0.079	4.5	ND	ND	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		0.062 U	0.14	17	ND	ND	0.058 U	0.059 U	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		1.3	7.4	180	1.7	7.8	0.16	0.17	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		2.4	4.5	52	2.2	7.6	0.45	0.35	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St			101 Greenwood St		101 Greenwood St	101 Greenwood St	101 Greenwood St			101 Greenwood St			
								Sample ID:	101 Comp 5			101 Comp 5[1]		Front Comp	Rear Comp	D.5-2			D.5-3			
								Sample Depth (ft.):	0-3	3-6	6-native	0-3	3-6	UN	UN	2-3	3-6	6-9	1-3	1-3[1]	3-6	6-9
								Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	2/6/2006	2/6/2006	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PCBs																						
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.063	0.012 U	2.8 J	0.13 UJ	1.47 J	5.78 J	5.2	0.131 UJ	0.127 UJ
	Aroclor 1260	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.012 U	0.012 U	0.12 UJ	0.69 J	0.15 UJ	0.118 UJ	1.1	0.131 UJ	0.127 UJ
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.012 U	0.012 U	0.12 UJ	0.13 UJ	0.15 UJ	0.118 UJ	ND	4.5 J	6 J
	Total PCBs	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.063	0.023 U	2.8 J	0.69 J	1.47 J	5.78 J	6.3	4.5 J	6 J
Metals																						
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		5.88	6.79	13	4.4	3.1	2.16	1.5	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		333	335	464	310	210	71	30	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		3.27	2.78	5.43	2	0.79	0.75	0.38	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A		29	31	28	52	24	12	7.55	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A		575	1150	2790	620	1000	107	62	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A		0.653	0.695	0.537	0.78	0.61	0.118	0.061	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		0.82 U	1.23	4.53	ND	ND	0.31	0.25	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		0.41 U	0.41 U	0.57 U	ND	ND	0.12 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																						
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		64	184	3600	NA	NA	NA	NA	54	39	174	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	9.9	14.9	19.2	NA	NA	NA	NA
Metals, TCLP																						
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		0.28	1.92	2.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							101 Greenwood St			101 Greenwood St				101 Greenwood St			101 Greenwood St		
							Sample Location:													
							Sample ID:	D.5-4			D.5-5				E.5-2			E.5-3		
							Sample Depth (ft.):	1-3	3-6	6-9	1-3	3-6	6-10	6-10	1-3	3-6	6-9	1-3	3-6	6-9
							Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2006 Field Dup	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							101 Greenwood St			101 Greenwood St				101 Greenwood St			101 Greenwood St		
		Sample Location:						101 Greenwood St			101 Greenwood St				101 Greenwood St			101 Greenwood St		
		Sample ID:						D.5-4			D.5-5				E.5-2			E.5-3		
		Sample Depth (ft.):						1-3	3-6	6-9	1-3	3-6	6-10	6-10	1-3	3-6	6-9	1-3	3-6	6-9
		Sample Date:						12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2006	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA							Field Dup						
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	11.222 J	0.136 UJ	0.376 J	1.96 J	0.12 UJ	0.25 J	0.902 J	29.6 J	0.391 J	1.132 J	3.44 J	0.579 J	0.751 J
	Aroclor 1260	2	2	3	3	2	1	0.133 UJ	0.673 J	0.161 UJ	0.12 UJ	0.12 UJ	0.15 UJ	0.539 J	0.118 UJ	0.141 UJ	0.141 UJ	0.119 UJ	0.139 UJ	0.16 UJ
	Aroclor 1262	2	2	3	3	2	1	0.133 UJ	0.136 UJ	0.161 UJ	0.12 UJ	4.2 J	0.15 UJ	0.12 UJ	0.118 UJ	0.141 UJ	0.141 UJ	0.119 UJ	0.139 UJ	0.16 UJ
	Total PCBs	2	2	3	3	2	1	11.222 J	0.673 J	0.376 J	1.96 J	4.2 J	0.25 J	1.441 J	29.6 J	0.391 J	1.132 J	3.44 J	0.579 J	0.751 J
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St				101 Greenwood St			101 Greenwood St	101 Greenwood St			
		Sample ID:						E.5-4				E.5-5			E1	F2			
		Sample Depth (ft.):						1-3	3-6	3-6[1]	6-9	0.5-3	3-6	6-8.5	1-2	0.25-3	3-6	3-6[1]	6-8
		Sample Date:						12/20/2005	12/20/2005	12/20/2006	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
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
VOCs																			
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	0.062 U	0.062 U	0.064 U	NA	0.06 U	0.11	NA	0.077 U
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	0.062 U	0.062 U	0.064 U	NA	0.06 U	0.065 U	NA	0.077 U
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	0.31 U	0.7	2	NA	0.3 U	0.32 U	NA	0.38 U
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	0.062 U	0.51	11	NA	0.06 U	0.065 U	NA	0.077 U
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	0.062 U	0.062 U	0.064 U	NA	0.06 U	0.065 U	NA	0.077 U
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	0.062 U	0.062 U	0.064 U	NA	0.06 U	0.065 U	NA	0.077 U
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	0.062 U	0.062 U	0.064 U	NA	0.06 U	0.065 U	NA	0.24
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	0.12 U	0.12 U	0.13 U	NA	0.12 U	0.13 U	NA	0.15 U
VPH																			
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																			
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St				101 Greenwood St			101 Greenwood St	101 Greenwood St			
		Sample ID:						E.5-4				E.5-5			E1	F2			
		Sample Depth (ft.):						1-3	3-6	3-6[1]	6-9	0.5-3	3-6	6-8.5	1-2	0.25-3	3-6	3-6[1]	6-8
		Sample Date:						12/20/2005	12/20/2005	12/20/2006	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
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
PCBs																			
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	2.51 J	0.372 J	0.66	0.16 UJ	2.34 J	0.134 UJ	0.687 J	1.85	3.66	0.784 J	5.6	3.01 J
	Aroclor 1260	2	2	3	3	2	1	3.5 J	0.455 J	0.35	0.16 J	4.53 J	0.868 J	1.71 J	0.816	2.09	0.621 J	1.9	2.11 J
	Aroclor 1262	2	2	3	3	2	1	0.129 UJ	0.13 UJ	ND	0.16 UJ	0.132 UJ	0.134 UJ	0.132 UJ	NA	0.122 U	0.131 UJ	ND	0.129 UJ
	Total PCBs	2	2	3	3	2	1	6.01 J	0.827 J	1.01	0.16 J	6.87 J	0.868 J	2.397 J	2.666	5.75	1.405 J	7.5	5.12 J
Metals																			
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																			
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	188	266	234	NA	157	63	NA	106
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	7.8 U	9.5	13	NA	11.5	11.8	NA	14.1
Metals, TCLP																			
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

B - Detected in associated laboratory method blank.

J - Estimated value; below quantitation limit.

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^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

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Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St				101 Greenwood St		101 Greenwood St	101 Greenwood St				101 Greenwood St		
		Sample ID:						G2				G5		H1	H2				H3		
		Sample Depth (ft.):						0.5-3	0-1	3-6	6-9	1.5-3	3-6	1-3	0.5-3	3-6	6-8.5	6-8.5	1-3	3-6	6-9
		Sample Date:						12/19/2005	1/27/2006	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005 Field Dup	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St				101 Greenwood St		101 Greenwood St	101 Greenwood St				101 Greenwood St		
		Sample ID:						G2				G5		H1	H2				H3		
		Sample Depth (ft.):						0.5-3	0-1	3-6	6-9	1.5-3	3-6	1-3	0.5-3	3-6	6-8.5	6-8.5	1-3	3-6	6-9
		Sample Date:						12/19/2005	1/27/2006	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005 Field Dup	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	10.4 J	0.226 J	23.3 J	1.37 UJ	2.03 J	1.06 J	0.104 UJ	0.968 J	799 J	1.87 J	2.46 J	1.27 J	1.58 J	10.7 J
	Aroclor 1260	2	2	3	3	2	1	0.126 UJ	0.1 UJ	0.129 UJ	0.137 UJ	1.56 J	0.867 J	0.104 UJ	0.81 J	177 J	0.259 UJ	1.24 J	0.611 J	0.81 J	4.67 J
	Aroclor 1262	2	2	3	3	2	1	0.126 UJ	0.1 UJ	0.129 UJ	0.137 UJ	NA	NA	0.104 UJ	NA	NA	NA	NA	0.107 UJ	0.11 UJ	0.165 UJ
	Total PCBs	2	2	3	3	2	1	10.4 J	0.226 J	23.3 J	1.37 UJ	3.59 J	1.927 J	0.207 UJ	1.778 J	976 J	1.87 J	3.7 J	1.881 J	2.39 J	15.37 J
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
							Sample Location:	**101 Greenwood St**			**101 Greenwood St**			**101 Greenwood St**		**101 Greenwood St**	**101 Greenwood St**		**101 Greenwood St**	**101 Greenwood St**
							Sample ID:	H4			H5			I3		I4	I5		SB-101-1	SB-101-2
							Sample Depth (ft.):	1-3	3-6	6-7.75	1-3	3-6	6-7	1-3	1-3	1-3	3-6	6-7	0-1	0-1
							Sample Date:	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005 Field Dup	12/19/2005	12/19/2005	12/19/2005	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	0.069 U	ND	0.13 U	NA	NA	NA	NA	NA	NA	0.065 U	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	0.069 U	ND	0.13 U	NA	NA	NA	NA	NA	NA	0.065 U	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	0.35 U	ND	0.63 U	NA	NA	NA	NA	NA	NA	0.33 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.069 U	ND	0.13 U	NA	NA	NA	NA	NA	NA	0.065 U	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	0.069 U	ND	0.13 U	NA	NA	NA	NA	NA	NA	0.065 U	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	0.069 U	ND	0.13 U	NA	NA	NA	NA	NA	NA	0.065 U	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	0.069 U	ND	0.13 U	NA	NA	NA	NA	NA	NA	0.065 U	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	0.14 U	ND	0.25 U	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	0.19 U
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.19 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7	0.19 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.5	0.19 U
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	0.19 U
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2	0.19 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	0.19 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	0.19 U
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2	0.19 U
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.77	0.19 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	0.19 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	0.19 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8	0.19 U
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.83	0.19 U
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60	0.19 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	0.19 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	0.19 U

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St		101 Greenwood St			101 Greenwood St		101 Greenwood St	101 Greenwood St		101 Greenwood St	101 Greenwood St
								Sample ID:	H4		H5			I3		I4	I5		SB-101-1	SB-101-2
								Sample Depth (ft.):	1-3	3-6	6-7.75	1-3	3-6	6-7	1-3	1-3	1-3	3-6	6-7	0-1	0-1
								Sample Date:	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005 Field Dup	12/19/2005	12/19/2005	12/19/2005	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.787 J	1.71 J	0.714 J	1.81 J	0.486 J	0.15 UJ	0.104 UJ	0.105 UJ	0.106 UJ	0.1 UJ	0.141 UJ	4.38 J	1.29 J
	Aroclor 1260	2	2	3	3	2	1		3.77 J	1.32 J	0.697 J	1.28 J	0.399 J	0.15 UJ	0.104 UJ	0.105 UJ	0.106 UJ	0.1 UJ	0.141 UJ	0.803 J	0.258
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		4.557 J	3.03 J	1.411 J	3.09 J	0.885 J	0.3 UJ	0.208 UJ	0.209 UJ	0.212 UJ	0.201 UJ	0.281 UJ	5.183 J	1.548 J
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	NA
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	2.8 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230	62
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	0.46
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	12
	Lead	300	300	300	300	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	320	81
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7	6.2
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.0 U	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60 U	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	56
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	138	164	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	22.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

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TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St	101 Greenwood St			101 Greenwood St				101 Greenwood St			
								Sample ID:	SB-101-3	SB-101-4A/5C			SB-101-4B				SB-101-4C			
								Sample Depth (ft.):	0-1	0-1	0-1	1-3	10.5-12	0-1	1-3	4-7	9-11	0-1	1-3	4-9	10-12
								Sample Date:	12/13/2010	12/14/2010	12/14/2010 Field Dup	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.19 U	0.20 U	0.20 U	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		0.19 U	0.20 U	0.20 U	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.26	0.33	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.19 U	0.84	0.87	NA	NA	0.36	NA	NA	NA	0.24	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.19 U	0.83	0.85	NA	NA	0.39	NA	NA	NA	0.24	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		0.19	1.2	1.2	NA	NA	0.53	NA	NA	NA	0.28	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.41	0.36	NA	NA	0.19	NA	NA	NA	0.23	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.19 U	0.42	0.42	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		0.19 U	0.97	0.94	NA	NA	0.42	NA	NA	NA	0.26	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.19 U	0.20 U	0.20 U	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		0.29	1.3	1.8	NA	NA	0.52	NA	NA	NA	0.41	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.20 U	0.20 U	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.19 U	0.50	0.47	NA	NA	0.24	NA	NA	NA	0.26	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.19 U	0.20 U	0.20 U	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		0.19 U	0.20 U	0.20 U	NA	NA	0.18 U	NA	NA	NA	0.21 U	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		0.19 U	1.3	1.6	NA	NA	0.34	NA	NA	NA	0.24	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		0.35	1.3	1.3	NA	NA	0.61	NA	NA	NA	0.48	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:	101 Greenwood St	101 Greenwood St				101 Greenwood St				101 Greenwood St			
		Sample ID:	SB-101-3	SB-101-4A/5C				SB-101-4B				SB-101-4C			
		Sample Depth (ft.):	0-1	0-1	0-1	1-3	10.5-12	0-1	1-3	4-7	9-11	0-1	1-3	4-9	10-12
		Sample Date:	12/13/2010	12/14/2010	12/14/2010 Field Dup	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
PCBs																			
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.477 J	1.87 J	2.27 J	9.12 J	0.0539 U	3.02 J	2.24 J	6.54 J	0.0408 J	3.32 J	2.37 J	24.7 J	0.257 UJ
	Aroclor 1260	2	2	3	3	2	1	0.0904 J	0.280 J	0.349 J	1.35 J	0.0539 U	0.466 J	1.05 J	0.407 J	0.0602 U	1.96 J	2.30 J	2.20 J	0.257 UJ
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.5674 J	2.15 J	2.619 J	10.47 J	0.0539 U	3.486 J	3.29 J	6.947 J	0.0408 J	5.28 J	4.67 J	26.9 J	0.257 UJ
Metals																			
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	2.8 U	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	2.7 U	19	7.3	23	2.7 U	6.0	4.0	13	2.9 U	6.4	5.3	5.5	2.7 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	44	310	340	990	7.7	240	96	360	15	240	160	220	7.6
	Beryllium	100	100	200	200	100	N/A	NA	0.28 U	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.28	2.2	27	45	0.27 U	1.6	0.78	7.1	0.29 U	4.0	1.2	55	0.27 U
	Chromium	30	30	200	200	30	N/A	13	33	25	39	3.5	27	13	16	8.0	34	14	12	2.5
	Lead	300	300	300	300	300	N/A	46	2,200	1,400	2,600	3.4	1,100	300	780	29	820	490	400	2.9
	Mercury	20	20	30	30	20	N/A	NA	0.95	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	7.4	26	16	35	1.9	17	8.9	18	5.3	15	12	14	1.7
	Selenium	400	400	800	800	400	N/A	NA	5.5 U	6.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	0.55 U	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	2.8 U	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	24	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	43	580	410	1,500	25	350	180	1,100	17	360	240	1,000	13
Total Petroleum Hydrocarbons																			
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																			
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							101 Greenwood St				101 Greenwood St				101 Greenwood St			
		Sample Location:						101 Greenwood St				101 Greenwood St				101 Greenwood St			
		Sample ID:						SB-101-4D				SB-101-5A				SB-101-5B			
		Sample Depth (ft.):						0-1	1-3	5-8	10-12	0-1	1-3	5-9	10-12	0-1	1-3	5-6	9-11
		Sample Date:						12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
VOCs																			
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																			
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																			
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	0.22 U	NA	NA	0.21 U	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	0.22 U	NA	NA	0.21 U	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.22 U	NA	NA	0.39	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	0.42	NA	NA	0.85	NA	NA	NA	0.56	0.34	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	0.41	NA	NA	0.67	NA	NA	NA	0.51	0.39	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	0.50	NA	NA	0.81	NA	NA	NA	0.64	0.46	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.42	NA	NA	0.49	NA	NA	NA	0.30	0.31	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	0.22 U	NA	NA	0.31	NA	NA	NA	0.26	0.20 U	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	0.49	NA	NA	0.83	NA	NA	NA	0.58	0.38	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	0.22 U	NA	NA	0.21 U	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.62	NA	NA	1.5	NA	NA	NA	0.73	0.52	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.22 U	NA	NA	0.21 U	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	0.45	NA	NA	0.59	NA	NA	NA	0.40	0.37	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	0.22 U	NA	NA	0.21 U	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	0.22 U	NA	NA	0.21 U	NA	NA	NA	0.20 U	0.20 U	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	0.47	NA	NA	1.5	NA	NA	NA	0.72	0.23	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.94	NA	NA	2.0	NA	NA	NA	1.1	0.82	NA	NA

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Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							101 Greenwood St				101 Greenwood St				101 Greenwood St			
		Sample Location:						101 Greenwood St				101 Greenwood St				101 Greenwood St			
		Sample ID:						SB-101-4D				SB-101-5A				SB-101-5B			
		Sample Depth (ft.):						0-1	1-3	5-8	10-12	0-1	1-3	5-9	10-12	0-1	1-3	5-6	9-11
		Sample Date:						12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
PCBs																			
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	1.13 J	5.27 J	46.0 J	0.238 UJ	4.63 J	27.2 J	3.08 J	0.0580 UJ	14.2 J	6.92	0.488 J	0.194 UJ
	Aroclor 1260	2	2	3	3	2	1	0.275	2.85 J	3.24 J	0.238 UJ	0.831 J	2.81 J	0.363 J	0.0580 UJ	1.67 J	6.22 U	0.191 J	0.194 UJ
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	1.405 J	8.12 J	49.24 J	0.238 UJ	5.461 J	30.01 J	3.443 J	0.0580 UJ	15.87 J	6.92 J	0.679 J	0.194 UJ
Metals																			
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	3.1 U	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	5.6	7.7	9.8	13 U	3.1 U	6.5	11	2.6 U	13	3.9	24	9.1 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	320	280	230	57	120	470	430	21	330	110	130	29
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	0.31 U	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	1.6	6.3	68	1.3 U	0.68	2.5	90	0.26 U	3.4	2.1	100	0.91 U
	Chromium	30	30	200	200	30	N/A	19	29	32	6.8	16	110	75	10	39	120	140	20
	Lead	300	300	300	300	300	N/A	610	1,200	1,400	6.9	330	2,000	2,700	6.7	1,900	610	1,300	12
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	0.42	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	12	24	48	3.3	8.4	32	36	4.3	28	10	160	6.7
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	6.3 U	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	0.63 U	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	3.1 U	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	55	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	330	1,100	2,300	26	120	830	1,800	12	560	250	5,300	48
Total Petroleum Hydrocarbons																			
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																			
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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Analysis	Analyte																				
							Sample Location:	**101 Greenwood St**			**101 Greenwood St**		**101 Greenwood St**		**101 Greenwood St**			**101 Greenwood St**		**101 Greenwood St**	
							Sample ID:	SB-101-5D			SB-101-6A		SB-101-6B		SB-101-6C			SB-101-6D		SB-101-7A	
							Sample Depth (ft.):	2-3.5	4-6	8-10	0-1	1-3	0-1	1-3	0-1	1-3		0-1	1-3	0-1	1-3
							Sample Date:	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010 Field Dup	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.22 U	0.21 U	0.19 U	NA	0.21 U	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.22 U	0.21 U	0.19 U	NA	0.21 U	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.28	0.21 U	0.19 U	NA	0.21 U	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	0.24	NA	0.26	NA	0.32	0.68	0.28	0.19 U	NA	0.21 U	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	0.23	NA	0.25	NA	0.31	0.59	0.28	0.19 U	NA	0.21 U	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	0.25	NA	0.30	NA	0.38	0.76	0.35	0.19 U	NA	0.21 U	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.29	0.26	0.24	0.19 U	NA	0.21 U	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.33	0.21 U	0.19 U	NA	0.21 U	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	0.25	NA	0.29	NA	0.34	0.73	0.29	0.19 U	NA	0.21 U	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.22 U	0.21 U	0.19 U	NA	0.21 U	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.47	NA	0.44	NA	0.56	1.6	0.43	0.19 U	NA	0.21 U	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.22 U	0.21 U	0.19 U	NA	0.21 U	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	0.20 U	NA	0.22	NA	0.34	0.29	0.26	0.19 U	NA	0.21 U	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.22 U	0.21 U	0.19 U	NA	0.21 U	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.22 U	0.21 U	0.19 U	NA	0.21 U	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	0.34	NA	0.32	NA	0.43	1.4	0.33	0.19 U	NA	0.21	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.61	NA	0.59	NA	0.73	1.2	0.66	0.19 U	NA	0.31	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St		101 Greenwood St		101 Greenwood St		101 Greenwood St			101 Greenwood St		101 Greenwood St	
								Sample ID:	SB-101-5D			SB-101-6A		SB-101-6B		SB-101-6C			SB-101-6D		SB-101-7A	
								Sample Depth (ft.):	2-3.5	4-6	8-10	0-1	1-3	0-1	1-3	0-1	1-3		0-1	1-3	0-1	1-3
								Sample Date:	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010 Field Dup	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PCBs																						
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.275 J	10.7 J	0.0525 U	1.38 J	42.4 J	19.7 J	53.2 J	6.21 J	26.1 J	25.0 J	0.675 J	7.57 J	0.742 J	2.17 J
	Aroclor 1260	2	2	3	3	2	1		0.0527 U	0.661 U	0.0525 U	0.510	1.81 U	0.569 U	1.19 U	0.808	0.593 U	1.20 U	0.0541 U	1.65 J	0.151 J	0.943 J
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		0.275 J	10.7 J	0.0525 U	1.89 J	42.4 J	19.7 J	53.2 J	7.018 J	26.1 J	25.0 J	0.675 J	9.22 J	0.893 J	3.113 J
Metals																						
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		2.7 U	17	2.6 U	2.8 U	5.1	2.9 U	4.2	2.9 U	4.3	3.1	2.8 U	11	3.0 U	3.1
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		34	310	7.1	60	510	170	450	110	180	180	44	250	66	220
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		0.28	19	0.26 U	0.45	2.6	1.4	3.7	1.0	1.4	1.5	0.28 U	1.8	0.39	0.81
	Chromium	30	30	200	200	30	N/A		8.3	13	3.8	13	44	23	32	15	18	23	10	57	13	32
	Lead	300	300	300	300	300	N/A		110	590	12	170	570	270	580	270	520	420	20	750	100	300
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		8.1	14	1.8	6.3	20	11	37	8.6	14	14	6.7	60	6.1	9.2
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		49	490	21	69	400	210	650	170	250	260	30	250	57	130
Total Petroleum Hydrocarbons																						
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																						
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St		101 Greenwood St		101 Greenwood St		101 Greenwood St		101 Greenwood St		101 Greenwood St			
								Sample ID:	SB-101-7C		SB-101-7D		SB-101-8B		SB-101-8C		SB-101-8D		SB-101-9			
								Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	1.5-2.5	4-7	8-10	10-12
								Sample Date:	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
VOCs																						
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																						
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																						
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.20 U	NA	0.19 U	0.19 U	0.20 U	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		0.20 U	NA	0.19 U	0.19 U	0.20 U	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.20 U	NA	0.19 U	0.19 U	0.36	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.20 U	NA	0.19 U	0.36	0.62	NA	0.21 U	0.43	0.30	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.20 U	NA	0.19 U	0.34	0.51	NA	0.21 U	0.43	0.29	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		0.20 U	NA	0.19 U	0.39	0.59	NA	0.24	0.50	0.37	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.20 U	NA	0.19 U	0.27	0.29	NA	0.21 U	0.31	0.22	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.20 U	NA	0.19 U	0.19 U	0.22	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		0.20 U	NA	0.19 U	0.36	0.62	NA	0.21	0.44	0.26	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.20 U	NA	0.19 U	0.19 U	0.20 U	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		0.25	NA	0.19 U	0.68	1.3	NA	0.33	0.72	0.57	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.20 U	NA	0.19 U	0.19 U	0.23	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.20 U	NA	0.19 U	0.33	0.42	NA	0.21 U	0.35	0.25	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.20 U	NA	0.19 U	0.19 U	0.20 U	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		0.20 U	NA	0.19 U	0.19 U	0.42	NA	0.21 U	0.20 U	0.21 U	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		0.20 U	NA	0.19 U	0.63	1.8	NA	0.21	0.50	0.42	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		0.45	NA	0.20	0.83	1.5	NA	0.39	0.98	0.67	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	101 Greenwood St	101 Greenwood St	101 Greenwood St	101 Greenwood St	101 Greenwood St	101 Greenwood St			
								Sample ID:	SB-101-7C	SB-101-7D	SB-101-8B	SB-101-8C	SB-101-8D	SB-101-9			
								Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	1.5-2.5	4-7	8-10	10-12
								Sample Date:	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PCBs																						
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.282 J	3.58 J	0.664 J	9.50 J	2.13 J	1.49 J	1.93 J	1.22 J	2.13 J	0.617 J	0.0503 U	0.0710 U	0.166 U	NA
	Aroclor 1260	2	2	3	3	2	1		0.0567 U	0.872 J	0.141 J	1.40 J	0.314	0.597	0.494 J	0.457 J	0.545 J	0.291 J	0.0503 U	0.0710 U	0.166 U	NA
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		0.282 J	4.452 J	0.805 J	10.9 J	2.444 J	2.087	2.424 J	1.677 J	2.675 J	0.908 J	0.0503 U	0.0710 U	0.166 U	NA
Metals																						
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	2.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		2.9 U	6.1	2.9 U	2.8 U	3.0 U	4.0	3.0 U	4.4	3.0 U	5.1	2.6 U	14	8.7 U	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		41	140	42	170	36	190	200	240	200	210	16	140	110	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	0.28 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		0.32	1.2	0.30	0.89	0.30 U	1.7	4.4	2.9	10	8.5	0.26 U	0.85	0.99	NA
	Chromium	30	30	200	200	30	N/A		12	17	19	24	7.4	25	22	23	39	22	6.0	29	35	4.4
	Lead	300	300	300	300	300	N/A		78	570	110	270	69	610	270	630	300	580	8.8	760	25	NA
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		10	14	4.6	11	4.0	11	9.5	12	8.3	11	6.6	42	5.3	NA
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	5.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	0.56 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	2.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		52	230	47	130	43	270	140	300	130	240	21	200	110	NA
Total Petroleum Hydrocarbons																						
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																						
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St									
		Sample ID:						TP 101 H									
		Sample Depth (ft.):						0-1	1-3	3	3-5	5-6	5-6	6.5-7	6-7	7-9	9
		Sample Date:						12/6/2010	12/6/2010	12/6/2010	12/6/2010	12/6/2010	12/6/2010 Field Dup	12/7/2010	12/7/2010	12/7/2010	12/7/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA										
VOCs																	
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																	
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																	
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	65	210	240	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	25	260	350	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	0.12 U	1.5	2.5	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	0.12 U	0.61 U	0.62 U	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.12 U	2.9	5.8	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	0.12 U	5.5	11	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	0.12	4.3	9.2	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	0.15	6.0	13	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.12 U	2.3	5.6	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	0.12 U	2.2	4.6	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	0.12 U	5.7	11	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	0.12 U	0.81	1.7	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.16	12	26	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.12 U	1.7	2.7	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	0.12 U	3.0	6.3	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	0.12 U	0.61 U	0.62 U	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	0.12 U	0.90	1.1	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	0.12 U	10	21	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.14	12	25	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St									
		Sample ID:						TP 101 H									
		Sample Depth (ft.):						0-1	1-3	3	3-5	5-6	5-6	6.5-7	6-7	7-9	9
		Sample Date:						12/6/2010	12/6/2010	12/6/2010	12/6/2010	12/6/2010	12/6/2010 Field Dup	12/7/2010	12/7/2010	12/7/2010	12/7/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA										
PCBs																	
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	17	4.3	0.37	270	230	69	1.3	18	22	0.33 U
	Aroclor 1260	2	2	3	3	2	1	2.3 U	1.2 U	0.15 U	24 U	25 U	12 U	0.14 U	2.4 U	2.8 U	0.33 U
	Aroclor 1262	2	2	3	3	2	1	2.3 U	1.2 U	0.15 U	24 U	25 U	12 U	0.14 U	2.4 U	2.8 U	0.33 U
	Total PCBs	2	2	3	3	2	1	17	4.3	0.37	270	230	69	1.3	18	22	0.33 U
Metals																	
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																	
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																	
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St								101 Greenwood St		
		Sample ID:						TP 101 I								TP 101 J		
		Sample Depth (ft.):						0-1	1-3	3-5	5-7	5	6	7-9	9	3-5	5-7	8
		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	12/8/2010	12/8/2010	12/8/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA											
VOCs																		
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																		
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																		
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						101 Greenwood St								101 Greenwood St		
		Sample ID:						TP 101 I								TP 101 J		
		Sample Depth (ft.):						0-1	1-3	3-5	5-7	5	6	7-9	9	3-5	5-7	8
		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	12/8/2010	12/8/2010	12/8/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA											
PCBs																		
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	11	14	25	100	110	180	44	0.33 U	1.2	3.1	0.73
	Aroclor 1260	2	2	3	3	2	1	1.2 U	2.4 U	2.7 U	13 U	12 U	15 U	5.3 U	0.33 U	0.11 U	0.52 U	0.21 U
	Aroclor 1262	2	2	3	3	2	1	1.2 U	2.4 U	2.7 U	13 U	12 U	15 U	5.3 U	0.33 U	0.11 U	0.52 U	0.21 U
	Total PCBs	2	2	3	3	2	1	11	14	25	100	110	180	44	0.33 U	1.2	3.1	0.73
Metals																		
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																		
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																		
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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mg/L - milligrams per liter

B - Detected in associated laboratory method blank.

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^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

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TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						111 Greenwood St					111 Greenwood St			111 Greenwood St		111 Greenwood St			
		Sample ID:						111 Comp 1					111 Comp 2			111 Comp 3		111 Comp 4			
		Sample Depth (ft.):						0-3	3-6		3-6[1]	6-native	0-3	3-6	6-native	0-3	3-6	0-3	3-6	3-6[1]	6-native
		Sample Date:						12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA			Field Dup											
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.057 U	0.063 U	NA	ND	0.064 U	0.06 U	0.075	NA	0.092	0.066 U	0.054 U	0.058 U	ND	1.3
	Acenaphthylene	600	10	600	10	1	N/A	0.057 U	0.063 U	NA	ND	0.064 U	0.081	0.066 U	NA	0.075	0.066 U	0.11	0.058 U	ND	0.069 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.14	0.063 U	NA	ND	0.064 U	0.06 U	0.13	NA	0.38	0.066 U	0.18	0.061	ND	2.6
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.57	0.16	NA	0.55	0.11	0.27	0.5	NA	0.94	0.12	0.48	0.19	ND	7.0
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.64	0.22	NA	0.55	0.13	0.36	0.58	NA	0.76	0.12	0.42	0.19	ND	5.4
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	1	0.5	NA	0.7	0.26	0.66	1.1	NA	1.2	0.29	0.56	0.26	ND	7.0
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.27	0.21	NA	ND	0.072	0.18	0.23	NA	0.28	0.074	0.18	0.091	ND	1.8
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.22	0.084	NA	ND	0.064 U	0.12	0.19	NA	0.28	0.066 U	0.2	0.08	ND	2.3
	Chrysene	70	70	400	400	70	N/A	0.47	0.14	NA	ND	0.099	0.22	0.45	NA	0.79	0.097	0.4	0.17	ND	5.3
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.089	0.063 U	NA	ND	0.064 U	0.06 U	0.085	NA	0.1	0.066 U	0.062	0.058 U	ND	0.75
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	1.5	0.26	NA	1	0.23	0.53	1.4	NA	2.6	0.22	0.98	0.41	0.42	8.0
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.057 U	0.063 U	NA	ND	0.064 U	0.06 U	0.066 U	NA	0.15	0.066 U	0.054 U	0.058 U	ND	0.98
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.29	0.2	NA	ND	0.079	0.2	0.26	NA	0.31	0.082	0.2	0.1	ND	2.4
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.057 U	0.063 U	NA	ND	0.064 U	0.06 U	0.066 U	NA	0.079	0.066 U	0.054 U	0.058 U	ND	0.24
	Naphthalene	40	500	40	1,000	4	N/A	0.057 U	0.063 U	NA	ND	0.064 U	0.06 U	0.066 U	NA	0.057	0.066 U	0.054 U	0.058 U	ND	0.69
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.71	0.16	NA	0.6	0.12	0.15	0.71	NA	3	0.14	0.64	0.23	ND	7.0
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	1.9	0.44	NA	0.91	0.37	0.98	1.4	NA	2.5	0.42	0.79	0.32	ND	9.5

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St				111 Greenwood St			111 Greenwood St		111 Greenwood St			
								Sample ID:	111 Comp 1				111 Comp 2			111 Comp 3		111 Comp 4			
								Sample Depth (ft.):	0-3	3-6		3-6[1]	6-native	0-3	3-6	6-native	0-3	3-6	0-3	3-6	3-6[1]	6-native
								Sample Date:	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA				Field Dup										
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	6.7	15	13	13	11	6.54	18	NA	11	11	4.01	4.85	4.7	21
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	171	190	193	480	72	157	389	NA	1070	247	54	52	58	183
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	1.46	2.89	7.43	1.9	1.67	1.82 U	6.06	NA	1.57 U	1.84	0.84	0.72	ND	2.47
	Chromium	30	30	200	200	30	N/A	9.78	13	14	25	21	11	31	NA	37	13	11	10	ND	18
	Lead	300	300	300	300	300	N/A	314	670	499	740	342	822	849	NA	217	1510	178	96	93	320
	Mercury	20	20	30	30	20	N/A	0.501	0.947	0.771	0.34	0.2	0.247	0.518	NA	0.156	0.149	0.209	0.102	0.13	0.274
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	0.77 U	4.13 U	7.43 U	ND	0.76 U	3.64 U	4.04 U	NA	3.13 U	3.69 U	0.65 U	0.72 U	ND	1.11
	Silver	100	100	200	200	100	N/A	0.39 U	2.06	3.72 U	ND	0.38 U	4.36	2.02 U	NA	1.57 U	1.84 U	0.32 U	0.36 U	ND	0.43 U
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	81	40	NA	NA	33	54	92	NA	66	65	72	37	NA	39
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	0.4	0.7	0.4	NA	0.2	1.4	0.5	NA	0.1	1.5	0.1 U	NA	NA	0.15

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																		
							Sample Location:	**111 Greenwood St**			**111 Greenwood St**		**111 Greenwood St**	**111 Greenwood St**	**111 Greenwood St**			**111 Greenwood St**	
							Sample ID:	111 Comp 5			111 Comp 6		Front Comp	Rear Comp	E.5-6			E.5-7	
							Sample Depth (ft.):	0-3	3-6	6-native	0-3	3-6	0-0.5	0-0.5	0.5-3	3-6	6-7	1-3	3-6	6-7
							Sample Date:	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	2/6/2006	2/6/2006	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03 U	0.029 U	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03 U	0.029 U	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.14 U	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03 U	0.029 U	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11	0.15	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03 U	0.029 U	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03 U	0.029 U	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.06 U	0.057 U	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	0.06 U	0.062 U	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.059 U	0.065 U	0.062 U	0.059 U	0.35	0.06	0.062 U	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.083	0.065 U	0.062 U	0.12	0.34	0.14	0.063	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.13	0.065 U	0.062 U	0.2	0.83	0.34	0.15	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.33	0.065 U	0.085	0.42	1.7	1.4	0.59	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.36	0.065	0.099	0.36	1.6	1.2	0.49	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.47	0.066	0.14	0.5	2.2	1.2	0.38	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.31	0.065 U	0.081	0.18	0.75	0.75	0.32	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.14	0.065 U	0.062 U	0.14	0.72	0.72	0.41	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.29	0.065 U	0.075	0.39	1.4	1.2	0.48	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.076	0.065 U	0.062 U	0.059 U	0.2	0.2	0.084	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.78	0.098	0.14	0.84	3.6	3	1.2	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.059 U	0.065 U	0.062 U	0.059 U	0.37	0.061	0.062 U	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.31	0.065 U	0.074	0.19	0.82	0.68	0.28	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.059 U	0.065 U	0.062 U	0.059 U	0.17	0.06 U	0.062 U	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.059 U	0.065 U	0.062 U	0.059 U	0.38	0.06 U	0.062 U	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.48	0.065 U	0.082	0.91	3.5	1.3	0.54	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.87	0.12	0.18	1.1	2.9	2.8	1.4	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St										
								Sample ID:	111 Comp 5			111 Comp 6		Front Comp	Rear Comp	E.5-6			E.5-7		
								Sample Depth (ft.):	0-3	3-6	6-native	0-3	3-6	0-0.5	0-0.5	0.5-3	3-6	6-7	1-3	3-6	6-7
								Sample Date:	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	2/6/2006	2/6/2006	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.431	0.234	0.123 UJ	0.126 UJ	0.138 UJ	0.121 UJ	0.116 UJ	0.155 UJ
	Aroclor 1260	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.291	0.216	0.666 J	0.126 UJ	0.138 UJ	0.419 J	0.838 J	0.167 J
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.012 U	0.012 U	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		NA	NA	NA	NA	NA	0.722	0.45	0.666 J	0.252 UJ	0.276 UJ	0.419 J	0.838 J	0.167 J
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		3.79	14	5.8	5.1	11	4.43	4.26	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		84	121	116	95	262	68	65	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		0.93	1.29	1.45	1.58	3.9	0.81	0.97	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A		12	11	17	14	28	9.9	11	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A		299	377	455	368	781	273	937	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A		0.29	0.279	2.25	0.273	1.22	0.189	0.222	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		0.77 U	1.2	0.81 U	1.29	1.56	0.51	0.72	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		0.39 U	0.43 U	0.4 U	0.36 U	0.35 U	ND	ND	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		104	36	55	56	167	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		0.34	0.34	0.35	0.28	1.22	ND	ND	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						111 Greenwood St			111 Greenwood St			111 Greenwood St		111 Greenwood St			111 Greenwood St		
		Sample ID:						E.5-8			E.5-9			E.5-10		F.5-6			F.5-7		
		Sample Depth (ft.):						1-3	3-6	6-7	2-3	3-6	6-7	2-3	3-6	1-3	3-6	6-7	1-3	3-6	6-7.5
		Sample Date:						12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	0.061 U	0.068 U	0.054 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	0.061 U	0.068 U	0.054 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	0.31 U	0.34 U	0.27 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	0.061 U	0.068 U	0.054 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	1.7	0.24	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	0.061 U	0.068 U	0.054 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	0.061 U	0.068 U	0.054 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	0.12 U	0.14 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						111 Greenwood St			111 Greenwood St			111 Greenwood St		111 Greenwood St			111 Greenwood St		
		Sample ID:						E.5-8			E.5-9			E.5-10		F.5-6			F.5-7		
		Sample Depth (ft.):						1-3	3-6	6-7	2-3	3-6	6-7	2-3	3-6	1-3	3-6	6-7	1-3	3-6	6-7.5
		Sample Date:						12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.112 UJ	ND	0.112 UJ	0.132 UJ	0.131 UJ	0.137 UJ	0.106 UJ	0.116 UJ	0.128 UJ	0.114 UJ	0.191 UJ	0.121 UJ	0.123 UJ	0.131 UJ
	Aroclor 1260	2	2	3	3	2	1	0.654 J	0.547	0.112 UJ	0.518 J	0.108 J	0.485 J	0.106 UJ	0.116 UJ	0.374 J	0.114 UJ	0.264 J	0.562 J	1.24 J	1.048 J
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	1.08 J	0.116 UJ	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.654 J	0.547	0.224 UJ	0.518 J	0.108 J	0.485 J	1.08 J	0.233 UJ	0.374 J	0.228 UJ	0.264 J	0.562 J	1.24 J	1.048 J
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	146	NA	74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	10.6	NA	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St	111 Greenwood St				111 Greenwood St		111 Greenwood St			111 Greenwood St	
								Sample ID:	F.5-8		F.5-9				F.5-10		G5.75			G9	
								Sample Depth (ft.):	1-3	3-6	0.5-3	1-3[6]	3-6	6-7	0.5-3	3-6	0.5-3	3-6	6-9	3-6	3-6[1]
								Sample Date:	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
VOCs																						
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	0.082 U	NA	0.053 U	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	0.084	NA	0.053 U	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	0.41 U	NA	0.27 U	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	0.082 U	NA	0.053 U	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	0.082 U	NA	0.96	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	0.3	NA	0.053 U	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	0.082 U	NA	0.053 U	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	0.38	NA	0.11 U	NA	NA	NA	NA
VPH																						
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																						
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St	111 Greenwood St				111 Greenwood St		111 Greenwood St			111 Greenwood St	
								Sample ID:	F.5-8	F.5-9				F.5-10		G5.75			G9	
								Sample Depth (ft.):	1-3	3-6	0.5-3	1-3[6]	3-6	6-7	0.5-3	3-6	0.5-3	3-6	6-9	3-6	3-6[1]
								Sample Date:	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/19/2005	12/19/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.116 UJ	0.122 UJ	0.109 UJ	0.121 U	0.115 UJ	0.13 UJ	0.1 U	1.668	0.1 U	0.1 U	0.1 U	0.118 UJ	ND
	Aroclor 1260	2	2	3	3	2	1		0.474 J	0.122 UJ	0.278 J	0.121 U	0.43 J	0.538 J	0.1 U	0.4 U	0.374	0.1 U	0.1 U	0.246 J	0.12
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		0.474 J	0.245 UJ	0.278 J	0.243 U	0.43 J	0.538 J	0.2 U	1.668	0.374	0.2 U	0.2 U	0.246 J	0.12
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[1]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

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VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St		111 Greenwood St			111 Greenwood St			111 Greenwood St			111 Greenwood St	
								Sample ID:	G10		H5.75			H9			H10			I5.75	
								Sample Depth (ft.):	1-3	3-6	6-9	0.5-3	3-6	6-7.75	0.5-3	3-6	6-9	0.5-3	3-6	3-6[1]	0.75-3	3-6
								Sample Date:	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
VOCs																						
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	0.048 U	0.035 U	NA	NA	NA	NA	NA	NA	NA	0.044 U	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	0.048 U	0.035 U	NA	NA	NA	NA	NA	NA	NA	0.044 U	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	0.24 U	0.17 U	NA	NA	NA	NA	NA	NA	NA	0.22 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	0.048 U	0.035 U	NA	NA	NA	NA	NA	NA	NA	0.044 U	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	0.048 U	0.035 U	NA	NA	NA	NA	NA	NA	NA	0.42	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	0.048 U	0.035 U	NA	NA	NA	NA	NA	NA	NA	0.044 U	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	0.048 U	0.035 U	NA	NA	NA	NA	NA	NA	NA	0.044 U	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	0.096 U	0.069 U	NA	NA	NA	NA	NA	NA	NA	0.089 U	NA	NA	NA
VPH																						
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																						
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
		Sample Location:						**111 Greenwood St**			**111 Greenwood St**			**111 Greenwood St**			**111 Greenwood St**			**111 Greenwood St**	
		Sample ID:						G10			H5.75			H9			H10			I5.75	
		Sample Depth (ft.):						1-3	3-6	6-9	0.5-3	3-6	6-7.75	0.5-3	3-6	6-9	0.5-3	3-6	3-6[1]	0.75-3	3-6
		Sample Date:						12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.1 U	0.1 U	0.1 U	0.1 U	0.251	0.218	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ND	0.1 U	0.1 U
	Aroclor 1260	2	2	3	3	2	1	0.773	1.229	0.538	0.474	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ND	1.216	0.1 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
	Total PCBs	2	2	3	3	2	1	0.773	1.229	0.538	0.474	0.251	0.218	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	ND	1.216	0.2 U
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						111 Greenwood St				111 Greenwood St		111 Greenwood St			111 Greenwood St			111 Greenwood St	
		Sample ID:						I7				I8		I9			I10			SB-111-1	
		Sample Depth (ft.):						0.5-3	3-6	3-6	6-8.5	0.5-3	3-6.5	1-3	1-3[1]	3-6.5	1.25-3	1.25-3	3-7	0-1	1-3
		Sample Date:						12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/14/2010	12/14/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA			Field Dup								Field Dup			
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	0.062 U	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	0.062 U	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	0.31 U	NA	NA	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	0.062 U	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	0.19	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	0.062 U	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	0.062 U	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	0.12 U	NA	NA	0.076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.25	0.28
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.24	0.24
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.38	0.28
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23 U	0.21 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	0.26
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48	0.42

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Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
		Sample Location:						**111 Greenwood St**				**111 Greenwood St**		**111 Greenwood St**			**111 Greenwood St**			**111 Greenwood St**	
		Sample ID:						I7				I8		I9			I10			SB-111-1	
		Sample Depth (ft.):						0.5-3	3-6	3-6	6-8.5	0.5-3	3-6.5	1-3	1-3[1]	3-6.5	1.25-3	1.25-3	3-7	0-1	1-3
		Sample Date:						12/15/2005	12/15/2005	12/15/2005 Field Dup	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005 Field Dup	12/15/2005	12/14/2010	12/14/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ND	0.1 U	0.1 U	0.1 U	0.1 U	0.117 U	0.0589 U
	Aroclor 1260	2	2	3	3	2	1	0.233	0.1 U	0.634	0.1 U	0.533	0.1 U	0.1 U	0.13	0.1 U	0.229	0.322	0.1 U	1.86 J	0.793 J
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.233	0.2 U	0.634	0.2 U	0.533	0.2 U	0.2 U	0.13	0.2 U	0.229	0.322	0.2 U	1.86 J	0.793 J
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.8	4.4
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	74
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	0.67
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	22
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	260	460
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	6.1
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160	110
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St	111 Greenwood St		111 Greenwood St	111 Greenwood St	111 Greenwood St		111 Greenwood St	111 Greenwood St	111 Greenwood St			
								Sample ID:	SB-111-2	SB-111-3		SB-111-4	SB-111-5	SB-111-6		SB-111-7	SB-111-8	SB-111-9			
								Sample Depth (ft.):	0-1	0-1	1-3	0-1	0-1	0-1	0-1	0-1	0-1	3-4	3-4	5-7	8-9
								Sample Date:	12/15/2010	12/14/2010	12/14/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010 Field Dup	12/15/2010	12/15/2010	12/15/2010	12/15/2010 Field Dup	12/15/2010	12/15/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.19 U	0.21 U	NA	0.21 U	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		0.19 U	0.23	NA	0.21 U	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.21 U	NA	0.48	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.53	0.88	NA	1.8	NA	NA	NA	0.27	0.43	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.57	0.82	NA	2.0	NA	NA	NA	0.26	0.40	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		0.65	1.0	NA	2.7	NA	NA	NA	0.31	0.53	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.47	0.66	NA	0.89	NA	NA	NA	0.24	0.29	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.24	0.34	NA	0.73	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		0.53	0.86	NA	1.7	NA	NA	NA	0.27	0.43	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.19 U	0.21 U	NA	0.25	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		0.65	1.4	NA	2.4	NA	NA	NA	0.47	0.74	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.21 U	NA	0.21 U	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.55	0.81	NA	1.1	NA	NA	NA	0.28	0.36	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.19 U	0.21 U	NA	0.21 U	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		0.19 U	0.21 U	NA	0.21 U	NA	NA	NA	0.21 U	0.19 U	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		0.49	0.58	NA	1.6	NA	NA	NA	0.38	0.64	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		1.4	1.7	NA	2.6	NA	NA	NA	0.65	1.1	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St	111 Greenwood St		111 Greenwood St	111 Greenwood St	111 Greenwood St		111 Greenwood St	111 Greenwood St	111 Greenwood St			
								Sample ID:	SB-111-2	SB-111-3		SB-111-4	SB-111-5	SB-111-6		SB-111-7	SB-111-8	SB-111-9			
								Sample Depth (ft.):	0-1	0-1	1-3	0-1	0-1	0-1	0-1	0-1	0-1	3-4	3-4	5-7	8-9
								Sample Date:	12/15/2010	12/14/2010	12/14/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010 Field Dup	12/15/2010	12/15/2010	12/15/2010	12/15/2010 Field Dup	12/15/2010	12/15/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.443 J	0.0586 U	0.0644 U	0.473 J	0.652 J	0.505 J	2.15 J	0.379 J	0.545 J	0.642 J	0.422 J	0.389 J	0.0539 U
	Aroclor 1260	2	2	3	3	2	1		0.582 J	0.878 J	0.215 J	0.549 J	0.639 J	0.605 J	0.700 J	0.553 J	0.874 J	0.728 J	0.725 J	0.508 J	0.0539 U
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		1.025 J	0.878 J	0.215 J	1.022 J	1.291 J	1.11 J	2.85 J	0.932 J	1.419 J	1.37 J	1.147 J	0.897 J	0.0539 U
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	3.1 U	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		4.6	4.5	12	5.5	7.7	8.0	5.6	4.9	4.3	7.0	5.3	3.3 U	2.7 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		71	80	60	150	250	110	130	98	78	150	130	44	7.2
	Beryllium	100	100	200	200	100	N/A		NA	NA	1.4	NA	NA	NA	NA	1.3	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		0.67	0.87	0.31 U	0.87	1.9	1.1	1.3	0.85	0.73	1.0	0.87	0.33 U	0.27 U
	Chromium	30	30	200	200	30	N/A		10	12	11	10	34	15	14	14	11	13	13	6.6	4.2
	Lead	300	300	300	300	300	N/A		290	330	190	490	1,000	500	450	360	370	410	400	41	2.2
	Mercury	20	20	30	30	20	N/A		NA	NA	0.058	NA	NA	NA	NA	0.19	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		7.4	8.0	4.9	9.2	19	14	14	9.2	7.3	10	8.1	2.9	2.4
	Selenium	400	400	800	800	400	N/A		NA	NA	6.1 U	NA	NA	NA	NA	5.9 U	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	0.61 U	NA	NA	NA	NA	0.59 U	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	3.1 U	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	13	NA	NA	NA	NA	18	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		130	170	67	170	450	230	250	240	140	320	170	100	8.0
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
	Sample Location:							**111 Greenwood St**				**98 Ruggles St**			**98 Ruggles St**			**98 Ruggles St**		**98 Ruggles St**
	Sample ID:							SB-111-10				98 Comp 1			98 Comp 2			98 Comp 3		A2
	Sample Depth (ft.):							0.5-2	2-4	6-7	10-12	0-3	3-6	6-native	0-3	3-6	6-native	0-3	3-6	0.5-3
	Sample Date:							12/15/2010	12/15/2010	12/15/2010	12/15/2010	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	0.28 U	0.55	0.37	0.35 U	0.29 U	0.33 U	0.29 U	0.39	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	0.28 U	0.32 U	0.3 U	0.35 U	0.29 U	0.33 U	0.29 U	0.8	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	0.28 U	1	0.59	0.35 U	0.29 U	0.33 U	0.41	0.38	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	0.86	2.6	1.6	0.44	0.29 U	0.57	1.2	2.4	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	1.7	5.1	3.3	1.1	0.49	1.1	1.8	6.5	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	1.4	5.3	3.2	1.1	0.52	1.1	1.5	6.1	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	1.9	7.1	5	1.6	0.74	2.1	2	9	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	0.73	2	1.2	0.42	0.31	0.66	0.55	2.1	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	0.65	2.3	1.3	0.49	0.29 U	0.57	0.65	2.9	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	1.4	3.9	2.6	0.93	0.45	0.88	1.5	5.4	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	0.28 U	0.7	0.46	0.35 U	0.29 U	0.33 U	0.29 U	0.88	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	3.9	14	8.8	2.2	1.1	2.1	3.5	15	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	0.34	1	0.64	0.35 U	0.29 U	0.33 U	0.29 U	0.91	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	0.85	2.5	1.5	0.51	0.29 U	0.72	0.66	2.5	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	0.28 U	0.32 U	0.3 U	0.35 U	0.29 U	0.33 U	0.29 U	0.29 U	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	0.28 U	0.32 U	0.3 U	0.35 U	0.29 U	0.33 U	0.29 U	0.29 U	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	3.4	12	7.6	1.4	0.84	1.9	2.5	10	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	3.1	11	7	1.9	0.96	1.7	3.7	12	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	111 Greenwood St				98 Ruggles St			98 Ruggles St			98 Ruggles St		98 Ruggles St
								Sample ID:	SB-111-10				98 Comp 1			98 Comp 2			98 Comp 3		A2
								Sample Depth (ft.):	0.5-2	2-4	6-7	10-12	0-3	3-6	6-native	0-3	3-6	6-native	0-3	3-6	0.5-3
								Sample Date:	12/15/2010	12/15/2010	12/15/2010	12/15/2010	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.0563 U	0.205 J	0.0582 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.114 U
	Aroclor 1260	2	2	3	3	2	1		1.02 J	0.303 J	0.0582 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.235
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.114 U
	Total PCBs	2	2	3	3	2	1		1.02 J	0.508 J	0.0582 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.235
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		5.2	12	2.8 U	2.7 U	3.86	22	23	34	16	16	5.52	13	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		190	550	9.6	6.3	237	234	325	440	226	338	124	441	NA
	Beryllium	100	100	200	200	100	N/A		NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		0.60	2.3	0.28 U	0.27 U	1.07	6.67	4.47	5.24	2.95	5.13	1.35	3.52	NA
	Chromium	30	30	200	200	30	N/A		12	21	4.1	3.7	12	31	54	60	23	28	20	24	NA
	Lead	300	300	300	300	300	N/A		300	2,000	6.5	1.6	404	566	2460	646	857	1190	225	1990	NA
	Mercury	20	20	30	30	20	N/A		NA	0.50	NA	NA	0.281	0.311	1.44	1.28	0.642	1.02	0.315	2.7	NA
	Nickel	20	20	700	700	20	N/A		10	25	1.9	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		NA	6.4 U	NA	NA	0.71 U	0.82 U	0.74 U	0.94 U	0.76 U	0.9 U	0.79 U	0.77 U	NA
	Silver	100	100	200	200	100	N/A		NA	0.64 U	NA	NA	0.36	0.58	0.52	0.66	0.46	0.81	0.39 U	2.07	NA
	Thallium	8	8	60	60	8	N/A		NA	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		140	770	11.0	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Ruggles St			98 Ruggles St			98 Ruggles St			98 Ruggles St				98 Ruggles St
		Sample ID:						A3			A4			A5.75			A5				B2
		Sample Depth (ft.):						0.5-3	3-7	7-10	0.5-3	3-6	6-8	0.5-3	3-7	7-10	0.5-3	3-7	3-7	7-10	1-5
		Sample Date:						6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006 Field Dup	6/20/2006	6/20/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Ruggles St			98 Ruggles St			98 Ruggles St			98 Ruggles St				98 Ruggles St
		Sample ID:						A3			A4			A5.75			A5				B2
		Sample Depth (ft.):						0.5-3	3-7	7-10	0.5-3	3-6	6-8	0.5-3	3-7	7-10	0.5-3	3-7	3-7	7-10	1-5
		Sample Date:						6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006 Field Dup	6/20/2006	6/20/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	1.09	0.398	13.3	4.28	1.2	0.865	1.08	0.136 U	0.138 U	1.21	NA	0.122 U	0.165	0.109 U
	Aroclor 1260	2	2	3	3	2	1	0.12 U	0.114 U	0.134 U	0.153 U	0.101 U	0.123 U	0.13 U	0.187	0.288	0.116 U	NA	1.13	0.148 U	0.109 U
	Aroclor 1262	2	2	3	3	2	1	0.593	0.114 U	0.134 U	0.153 U	0.406	0.123 U	0.288	0.136 U	0.138 U	0.116 U	NA	0.122 U	0.148 U	0.109 U
	Total PCBs	2	2	3	3	2	1	1.683	0.398	13.3	4.28	1.606	0.865	1.368	0.187	0.288	1.21	NA	1.13	0.165	0.109 U
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Ruggles St			98 Ruggles St	98 Ruggles St		98 Ruggles St			98 Rugggles St		98 Rugggles St
		Sample ID:						B5.75			C1.3	C2		C5.25			C5.75		D1.3
		Sample Depth (ft.):						0.5-3	3-7	7-10	0.5-3	3-6	3-6	0.5-3	3-7	7-10	3-5	5-8	0.5-3
		Sample Date:						6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006 Field Dup	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
VOCs																			
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																			
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																			
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Ruggles St			98 Ruggles St	98 Ruggles St		98 Ruggles St			98 Rugggles St		98 Rugggles St
		Sample ID:						B5.75			C1.3	C2		C5.25			C5.75		D1.3
		Sample Depth (ft.):						0.5-3	3-7	7-10	0.5-3	3-6	3-6	0.5-3	3-7	7-10	3-5	5-8	0.5-3
		Sample Date:						6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006 Field Dup	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
PCBs																			
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	2.26	0.127 U	0.12 U	0.109 U	NA	0.101 U	1.39	0.121 U	0.687	0.117 U	0.12 U	0.2
	Aroclor 1260	2	2	3	3	2	1	0.123 U	0.616	0.992	0.109 U	NA	0.752	0.124 U	0.515	0.133 U	0.126	0.158	0.107 U
	Aroclor 1262	2	2	3	3	2	1	0.772	0.127 U	0.12 U	0.109 U	NA	0.101 U	0.124 U	0.121 U	0.133 U	0.117 U	0.12 U	0.107 U
	Total PCBs	2	2	3	3	2	1	3.032	0.616	0.992	0.109 U	0.752	0.752	1.39	0.515	0.687	0.126	0.158	0.2
Metals																			
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																			
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																			
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Rugggles St			98 Rugggles St	98 Rugggles St	98 Rugggles St				98 Ruggles St			98 Ruggles St
		Sample ID:						D5.25			SB-98-1	SB-98-2	SB-98-3				SB-98-4			SB-98-5
		Sample Depth (ft.):						0.5-3	3-7	7-10	0-1	0-1	0-1	0-1	1-3	1-3	0-1	1-3	1-3	0-1
		Sample Date:						6/20/2006	6/20/2006	6/20/2006	12/10/2010	12/10/2010	12/10/2010	12/10/2010 Field Dup	12/10/2010	12/10/2010 Field Dup	12/10/2010	12/10/2010	12/10/2010 Field Dup	12/10/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	0.40 U	0.21 U	NA	0.20 U
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	0.40 U	0.21 U	NA	0.20 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	1.3	0.21 U	NA	0.20 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	0.58	0.29	0.20 U	0.20 U	0.55	NA	2.7	0.68	NA	0.32
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	0.58	0.26	0.20 U	0.20 U	0.52	NA	2.1	0.71	NA	0.29
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	0.75	0.35	0.23	0.21	0.68	NA	2.3	0.93	NA	0.36
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.33	0.21 U	0.20 U	0.20 U	0.27	NA	1.5	0.34	NA	0.20 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	0.29	0.21 U	0.20 U	0.20 U	0.26	NA	0.89	0.36	NA	0.20 U
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	0.62	0.32	0.21	0.20 U	0.60	NA	2.4	0.73	NA	0.31
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	0.41	0.21 U	NA	0.20 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	1.0	0.47	0.30	0.22	0.69	NA	5.8	0.97	NA	0.49
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	0.58	0.21 U	NA	0.20 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	0.44	0.21 U	0.20 U	0.20 U	0.36	NA	1.9	0.43	NA	0.20 U
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	0.40 U	0.21 U	NA	0.20 U
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	NA	0.40 U	0.21 U	NA	0.20 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	0.66	0.39	0.20 U	0.20 U	0.74	NA	6.3	0.56	NA	0.40
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	1.0	0.49	0.33	0.28	0.87	NA	5.9	1.2	NA	0.49

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	98 Rugggles St		98 Rugggles St	98 Rugggles St	98 Rugggles St				98 Ruggles St			98 Ruggles St
								Sample ID:	D5.25		SB-98-1	SB-98-2	SB-98-3				SB-98-4			SB-98-5
								Sample Depth (ft.):	0.5-3	3-7	7-10	0-1	0-1	0-1	0-1	1-3	1-3	0-1	1-3	1-3	0-1
								Sample Date:	6/20/2006	6/20/2006	6/20/2006	12/10/2010	12/10/2010	12/10/2010	12/10/2010 Field Dup	12/10/2010	12/10/2010 Field Dup	12/10/2010	12/10/2010	12/10/2010 Field Dup	12/10/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		3.29	0.138 U	0.54	1.65 J	0.739 J	0.670 J	NA	7.07 J	5.40 J	0.385 J	7.43 J	5.89 J	0.675 J
	Aroclor 1260	2	2	3	3	2	1		0.124 U	0.145	0.137 U	0.600 J	0.211 J	0.172 J	NA	1.27 J	1.36 J	0.0769 J	1.82 J	1.34 J	0.178 J
	Aroclor 1262	2	2	3	3	2	1		0.784	0.138 U	0.137 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		4.074	0.145	0.54	2.25 J	0.950 J	0.842 J	NA	8.34 J	6.76 J	0.4619 J	9.25 J	7.23 J	0.853 J
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	3.1 U	NA	NA	NA	NA	NA	2.9 U	3.2 U	NA	NA
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	5.4	3.1 U	2.8 U	2.8 U	4.3	NA	2.9 U	8.1	NA	3.1 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	200	73	54	50	320	NA	46	460	NA	58
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	0.31 U	NA	NA	NA	NA	NA	0.29 U	0.32 U	NA	NA
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	1.5	0.55	0.33	0.33	3.6	NA	0.29 U	1.5	NA	0.38
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	23	12	11	11	36	NA	9.2	100	NA	13
	Lead	300	300	300	300	300	N/A		NA	NA	NA	580	160	100	99	540	NA	76	640	NA	140
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	0.51	NA	NA	NA	NA	NA	0.067	0.43	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	14	5.5	5.1	5.8	14	NA	4.5	17	NA	6.5
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	6.2 U	NA	NA	NA	NA	NA	5.8 U	6.3 U	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	0.62 U	NA	NA	NA	NA	NA	0.58 U	0.63 U	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	3.1 U	NA	NA	NA	NA	NA	2.9 U	3.2 U	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	25	NA	NA	NA	NA	NA	14	52	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	300	79	51	54	310	NA	39	290	NA	77
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
							Sample Location:	98 Ruggles St				98 Ruggles St					98 Ruggles St			
							Sample ID:	SB-98-6A				SB-98-6B					SB-98-6C			
							Sample Depth (ft.):	0-1	1-3	1-3	8-10	0-1	1-3	4-7	4-7	9-10	0-1	1-3	4-6	8-10
							Sample Date:	12/13/2010	12/13/2010	12/13/2010 Field Dup	12/13/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010 Field Dup	12/14/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							98 Ruggles St				98 Ruggles St					98 Ruggles St			
		Sample Location:																		
		Sample ID:						SB-98-6A				SB-98-6B					SB-98-6C			
		Sample Depth (ft.):						0-1	1-3	1-3	8-10	0-1	1-3	4-7	4-7	9-10	0-1	1-3	4-6	8-10
		Sample Date:						12/13/2010	12/13/2010	12/13/2010 Field Dup	12/13/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010 Field Dup	12/14/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.137 J	1.43 J	1.26 J	0.191 UJ	0.166 J	0.978 J	10.4 J	0.806 J	0.171 UJ	2.18 J	6.88 J	0.488 J	0.0952 U
	Aroclor 1260	2	2	3	3	2	1	0.0631 U	0.388 J	0.347 J	0.191 UJ	0.0554 J	0.347 J	1.81 J	0.602 U	0.171 UJ	0.784 J	1.27 J	0.421 J	0.0952 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.137 J	1.818 J	1.607 J	0.191 UJ	0.2214 J	1.325 J	12.21 J	0.806 J	0.171 UJ	2.964 J	8.15 J	0.909 J	0.0952 U
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	2.8 U	2.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	3.2 U	2.8 U	3.0	8.5 U	2.5 U	2.7 U	17	25	9.4 U	4.1	3.9	8.1	4.5 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	110	140	160	210	57	120	870	550	150	130	320	480	24
	Beryllium	100	100	200	200	100	N/A	NA	0.28 U	0.27 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.60	0.91	0.78	0.85 U	0.25 U	0.85	7.4	5.2	1.4	0.65	1.5	3.3	0.45 U
	Chromium	30	30	200	200	30	N/A	17	13	15	9.7	20	14	100	46	9.3	15	30	27	5.0
	Lead	300	300	300	300	300	N/A	170	290	330	15	49	380	2,000	2,000	56	200	400	580	4.9
	Mercury	20	20	30	30	20	N/A	NA	0.34	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	11	7.7	7.8	2.8	11	8.2	48	34	3.7	8.5	13	28	1.9
	Selenium	400	400	800	800	400	N/A	NA	5.7 U	5.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	0.57 U	0.55 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	2.8 U	2.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	120	150	170	86	41	160	700	760	100	110	260	430	22
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Ruggles St				98 Ruggles St		98 Ruggles St			98 Ruggle St			98 Ruggles St	
		Sample ID:						SB-98-6D				SB-98-7		SB-98-8			SB-98-9			SB-101-8A	
		Sample Depth (ft.):						0-1	1-3	5-7	10-11	0-1	0-1	2-3	5-7	10-11	2-3	5-6	11-12	0-1	1-3
		Sample Date:						12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010 Field Dup	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.19 U	NA	NA	NA	0.19 U	0.20 U	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Acenaphthylene	600	10	600	10	1	N/A	0.19 U	NA	NA	NA	0.19 U	0.20 U	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	0.19 U	0.32	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.19 U	NA	NA	NA	0.67	0.92	0.18 U	NA	NA	NA	NA	NA	0.29	0.39
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.19 U	NA	NA	NA	0.65	0.84	0.18 U	NA	NA	NA	NA	NA	0.26	0.40
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.19 U	NA	NA	NA	0.97	1.1	0.18 U	NA	NA	NA	NA	NA	0.31	0.47
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	0.28	0.53	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.25
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.19 U	NA	NA	NA	0.34	0.41	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Chrysene	70	70	400	400	70	N/A	0.19 U	NA	NA	NA	0.74	0.98	0.18 U	NA	NA	NA	NA	NA	0.30	0.41
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.19 U	NA	NA	NA	0.19 U	0.20 U	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.21	NA	NA	NA	1.2	1.9	0.18 U	NA	NA	NA	NA	NA	0.45	0.59
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	0.19 U	0.20 U	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.19 U	NA	NA	NA	0.40	0.69	0.18 U	NA	NA	NA	NA	NA	0.23	0.34
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.19 U	NA	NA	NA	0.19 U	0.20 U	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Naphthalene	40	500	40	1,000	4	N/A	0.19 U	NA	NA	NA	0.19 U	0.20 U	0.18 U	NA	NA	NA	NA	NA	0.20 U	0.21 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.19 U	NA	NA	NA	0.85	1.5	0.18 U	NA	NA	NA	NA	NA	0.38	0.40
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	0.96	1.7	0.18 U	NA	NA	NA	NA	NA	0.64	0.80

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						98 Ruggles St				98 Ruggles St		98 Ruggles St			98 Ruggle St			98 Ruggles St	
		Sample ID:						SB-98-6D				SB-98-7		SB-98-8			SB-98-9			SB-101-8A	
		Sample Depth (ft.):						0-1	1-3	5-7	10-11	0-1	0-1	2-3	5-7	10-11	2-3	5-6	11-12	0-1	1-3
		Sample Date:						12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA						Field Dup								
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.0540 U	1.32 J	1.19 J	0.172 UJ	1.52 J	1.47 J	0.406 J	1.86 J	0.213 UJ	1.01 J	0.364 J	0.196 UJ	5.93 J	3.14 J
	Aroclor 1260	2	2	3	3	2	1	0.0540 U	0.313 J	0.607 J	0.172 UJ	0.480 J	0.471 J	0.236 J	1.43 J	0.213 UJ	0.196 J	0.112 J	0.196 UJ	0.947 J	0.959 J
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.0540 U	1.633 J	1.797 J	0.172 UJ	2.00 J	1.941 J	0.642 J	3.29 J	0.213 UJ	1.206 J	0.476 J	0.196 UJ	6.877 J	4.099 J
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	2.9 U	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	2.7 U	5.3	39	9.8 U	4.0	4.4	2.5 U	20	8.9 U	2.8 U	28	10 U	3.0 U	4.4
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	26	170	330	75	230	200	31	1,500	82	53	830	53	140	310
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	0.29 U	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.27 U	0.86	1.5	0.98 U	1.2	1.2	0.25 U	9.7	0.89 U	0.28	3.5	1.0 U	2.7	6.6
	Chromium	30	30	200	200	30	N/A	8.3	19	25	11	20	24	10	80	13	10	45	8.4	19	29
	Lead	300	300	300	300	300	N/A	26	290	750	51	460	390	29	3,300	21	70	3,000	40	230	700
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	0.33	0.37	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	4.6	13	18	6.1	15	12	7.6	49	6.0	7.1	46	4.3	8.9	14
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	5.8 U	5.9 U	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	0.58 U	0.59 U	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	2.9 U	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	24	26	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	24	210	260	130	220	230	32	1,900	120	52	1,000	67	150	270
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St			108 Ruggles St				108 Ruggles St			108 Ruggles St		
		Sample Location:						108 Ruggles St			108 Ruggles St				108 Ruggles St			108 Ruggles St		
		Sample ID:						108 Comp 1			108 Comp 2				108 Comp 3			108 Comp 4		
		Sample Depth (ft.):						0-3	3-6	6-native	0-3	0-3	3-6	6-native	0-3	3-6	6-native	0-3	3-6	6-native
		Sample Date:						12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005 Field Dup	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	ND	1.5	0.31	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.058 U	2.3	0.37	1.4	NA	0.057 U	0.61 U	0.062 U	0.06 U	0.071 U	0.063 U	0.06 U	0.09 U
	Acenaphthylene	600	10	600	10	1	N/A	0.13	0.58 U	0.086 U	0.6 U	NA	0.069	0.61 U	0.084	0.07	0.11	0.083	0.06 U	0.09 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.17	6.5	0.67	4.1	NA	0.098	0.61 U	0.17	0.17	0.12	0.12	0.08	0.09 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.63	12	1.2	7.3	NA	0.37	0.61 U	0.43	0.41	0.34	0.37	0.23	0.09 U
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.66	6.9	1	3.7	NA	0.35	0.61 U	0.49	0.44	0.32	0.38	0.24	0.09 U
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.95	9.4	1.6	5.6	NA	0.53	0.61 U	0.59	0.49	0.43	0.57	0.3	0.12
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.25	3.1	0.38	1.5	NA	0.12	0.61 U	0.37	0.32	0.29	0.13	0.13	0.09 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.17	2.7	0.42	1.6	NA	0.14	0.61 U	0.23	0.24	0.16	0.15	0.079	0.09 U
	Chrysene	70	70	400	400	70	N/A	0.54	9.3	0.84	5.9	NA	0.32	0.61 U	0.38	0.35	0.28	0.31	0.21	0.09 U
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.063	0.9	0.13	0.6 U	NA	0.057 U	0.61 U	0.12	0.097	0.11	0.063 U	0.06 U	0.09 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	1.2	32	2.4	23	NA	0.82	1.1	1.1	0.92	0.6	0.89	0.58	0.13
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.058 U	2.4	0.43	1.3	NA	0.057 U	0.61 U	0.062 U	0.06 U	0.071 U	0.063 U	0.06 U	0.09 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.28	3.5	0.46	1.7	NA	0.14	0.61 U	0.42	0.33	0.32	0.15	0.14	0.09 U
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.058 U	0.58 U	0.19	0.6 U	NA	0.057 U	0.61 U	0.062 U	0.06 U	0.071 U	0.063 U	0.06 U	0.09 U
	Naphthalene	40	500	40	1,000	4	N/A	0.058 U	1.3	0.65	0.6 U	NA	0.057 U	0.61 U	0.062 U	0.06 U	0.071 U	0.063 U	0.06 U	0.09 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.72	29	2.7	17	NA	0.4	1.1	0.69	0.56	0.24	0.49	0.41	0.09 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	1.1	20	1.7	14	NA	0.68	0.68	1	0.91	0.57	0.64	0.46	0.11

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St			108 Ruggles St				108 Ruggles St			108 Ruggles St		
							Sample Location:	108 Ruggles St			108 Ruggles St				108 Ruggles St			108 Ruggles St		
							Sample ID:	108 Comp 1			108 Comp 2				108 Comp 3			108 Comp 4		
							Sample Depth (ft.):	0-3	3-6	6-native	0-3	0-3	3-6	6-native	0-3	3-6	6-native	0-3	3-6	6-native
							Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA					Field Dup								
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	2.78	3.17	6.06	4.03	5.85	3.74	57.8	5.45	9.91	6.59	NA	7.69	22
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	88	81	451	145	194	125	330	486	446	2.09	NA	181	366
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.83	1.1	6.28	1.32	2.04	1.34	8.95	1.07	1.92	2.9	NA	1.28	3.77
	Chromium	30	30	200	200	30	N/A	11	12	14	12.9	19	12.8	20	13	15	24	NA	8.98	23
	Lead	300	300	300	300	300	N/A	316	251	408	395	533	424	3690	415	735	439	NA	309	606
	Mercury	20	20	30	30	20	N/A	0.334	0.372	0.22	0.342	0.423	109	0.161	0.539	0.505	0.881	NA	0.217	0.68
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	0.7	0.69 U	1.54	0.77 U	1.58	0.67 U	2.01	0.77 U	0.71 U	1.32	NA	0.91	5.03
	Silver	100	100	200	200	100	N/A	0.35 U	0.34 U	0.55 U	0.39 U	0.46 U	2.87	0.39 U	0.38 U	0.36 U	0.44 U	NA	1.13	0.57 U
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	42	306	28	203	NA	36	1040	45	35	58	96	21	83
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	0.28	0.31	0.15	0.17	0.22	4.54	0.79	0.36	2.49	1.02	NA	0.3	1.0

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St			108 Ruggles St	108 Ruggles St		108 Ruggles St		108 Ruggles St	108 Ruggles St		
								108 Comp 5			108 Ruggles Front[6]	108 Ruggles Front Comp[6]		108 Ruggles Rear[6]		Comp[6]	A6.25		
							Sample Depth (ft.):	0-3	3-6	6-native	0-0.5	UN	0-.25	0-0.5	0-0.5	UN	1.5-3	3-6	6-9
							Sample Date:	12/20/2005	12/20/2005	12/20/2005	2/6/2006	2/6/2006	2/6/2006	2/6/2006	2/6/2006 Field Dup	2/6/2006	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
VOCs																			
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																			
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																			
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	2.4	0.19	NA	0.200	0.073 U	NA	NA	0.061 U	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	0.9	0.16	NA	0.380	0.073 U	NA	NA	0.061 U	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	3.2	0.69	NA	0.130	0.073 U	NA	NA	0.061 U	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	6	0.93	NA	0.670	0.140	NA	NA	0.180	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	7.6	2.1	NA	1.80	0.440	NA	NA	0.610	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	7	1.8	NA	1.30	0.390	NA	NA	0.500	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	9.4	2.7	NA	1.30	0.350	NA	NA	0.440	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	2	0.54	NA	0.870	0.230	NA	NA	0.350	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	2.7	0.66	NA	1.00	0.290	NA	NA	0.390	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	5.6	1.4	NA	1.60	0.400	NA	NA	0.490	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	0.63 U	0.22	NA	0.290	0.073 U	NA	NA	0.096	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	23	3.5	NA	5.60	0.900	NA	NA	1.5	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	2.9	0.3	NA	0.390	0.073 U	NA	NA	0.064	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	2.5	0.72	NA	0.800	0.220	NA	NA	0.300	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	0.63 U	0.092 U	NA	0.067	0.073 U	NA	NA	0.061 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	1.1	0.092 U	NA	0.210	0.073 U	NA	NA	0.061 U	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	25	1.4	NA	4.60	0.520	NA	NA	0.840	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	14	2.2	NA	5.00	1.10	NA	NA	1.3	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						108 Ruggles St			108 Ruggles St	108 Ruggles St		108 Ruggles St		108 Ruggles St	108 Ruggles St		
		Sample ID:						108 Comp 5			108 Ruggles Front[6]	108 Ruggles Front Comp[6]		108 Ruggles Rear[6]		Comp[6]	A6.25		
		Sample Depth (ft.):						0-3	3-6	6-native	0-0.5	UN	0-.25	0-0.5	0-0.5	UN	1.5-3	3-6	6-9
		Sample Date:						12/20/2005	12/20/2005	12/20/2005	2/6/2006	2/6/2006	2/6/2006	2/6/2006	2/6/2006 Field Dup	2/6/2006	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA												
PCBs																			
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	NA	NA	NA	0.089	NA	0.065	0.093	0.135	NA	0.878 J	0.282 UJ	0.132 UJ
	Aroclor 1260	2	2	3	3	2	1	NA	NA	NA	0.012 U	NA	0.093	0.012 U	0.123	NA	0.687 J	0.282 UJ	0.132 UJ
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	0.066	NA	0.014 U	0.07	ND	NA	0.104 UJ	0.282 UJ	0.132 UJ
	Total PCBs	2	2	3	3	2	1	NA	NA	NA	0.155	NA	0.158	0.163	0.258	NA	1.565 J	0.564 UJ	0.263 UJ
Metals																			
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	7.23	31	14	NA	2.64	3.14	NA	NA	3.08	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	156	309	289	NA	68	75	NA	NA	57	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	1.58	6.6	4.25	NA	0.78	0.82	NA	NA	0.85	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	17	181	62	NA	11	13	NA	NA	9.6	NA	NA	NA
	Lead	300	300	300	300	300	N/A	569	1480	1960	NA	165	193	NA	NA	205	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	0.733	0.346	0.474	NA	0.181	0.192	NA	NA	0.145	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	0.83 U	1.78	2.79	NA	0.22	0.29 U	NA	NA	0.8	NA	NA	NA
	Silver	100	100	200	200	100	N/A	0.42 U	0.42 U	0.61 U	NA	0.11 U	0.15 U	NA	NA	0.13 U	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																			
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	2690	1140	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																			
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[1]	0.3	2.9	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						108 Ruggles St			108 Ruggles St			108 Ruggles St				108 Ruggles St			108 Ruggles St
		Sample ID:						A7			A8			A9				A10			A10.5
		Sample Depth (ft.):						0.5-3	3-6	6-8.5	0.5-3	3-6	6-8.5	0.5-3	0.5-3[1]	3-6	6-9.5	2.25-3	3-6	6-9	1-3.25
		Sample Date:						12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	0.095 U	0.052 U	0.81 U	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	0.095 U	0.052 U	0.81 U	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	0.47 U	0.26 U	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	0.095 U	0.052 U	0.81 U	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	0.095 U	0.052 U	0.81 U	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	0.095 U	0.12	0.81 U	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	0.095 U	0.052 U	0.81 U	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	0.19 U	0.15	1.6 U	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	108 Ruggles St		108 Ruggles St			108 Ruggles St				108 Ruggles St			108 Ruggles St
								Sample ID:	A7		A8			A9				A10			A10.5
								Sample Depth (ft.):	0.5-3	3-6	6-8.5	0.5-3	3-6	6-8.5	0.5-3	0.5-3[1]	3-6	6-9.5	2.25-3	3-6	6-9	1-3.25
								Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PCBs																						
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.65	0.13 U	0.238 UJ	0.250 J	0.11 UJ	0.299 UJ	0.697 J	0.127 UJ	0.8 J	0.169 UJ	0.293 J	0.706 J	0.458 J	0.11 UJ
	Aroclor 1260	2	2	3	3	2	1		0.83	0.13 U	0.238 UJ	0.460 J	0.11 UJ	0.299 UJ	1.03 J	0.79 J	2.05 J	0.169 UJ	0.111 UJ	0.418 J	0.25 J	0.11 UJ
	Aroclor 1262	2	2	3	3	2	1		0.11 U	0.13 U	0.238 UJ	0.130 UJ	0.11 UJ	0.299 UJ	0.127 UJ	ND	0.12 UJ	0.169 UJ	0.111 UJ	0.109 UJ	0.116 UJ	0.11 UJ
	Total PCBs	2	2	3	3	2	1		1.48	0.27 U	0.475 UJ	0.71 J	0.22 UJ	0.598 UJ	1.727 J	0.79 J	2.85 J	0.338 UJ	0.293 J	1.124 J	0.708 J	0.22 UJ
Metals																						
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																						
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	51	24	172	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	11.9 U	9.1	94 U	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																						
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St			108 Ruggles St			108 Ruggles St			108 Ruggles St			
		Sample Location:						108 Ruggles St			108 Ruggles St			108 Ruggles St			108 Ruggles St			
		Sample ID:						B6.25			B7			B10			B10.75			
		Sample Depth (ft.):						1.5-3	3-6	6-9.5	0.5-3	3-6	6-9	1-3	3-6	6-8.5	0.5-3	3-6	3-6	6-9
		Sample Date:						12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005 Field Dup	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	0.084 U	0.071 U	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	0.084 U	0.071 U	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	0.42 U	0.35 U	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	1.6	0.31	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	0.084 U	0.071 U	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	0.084 U	0.071 U	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	0.084 U	0.071 U	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	0.17 U	0.14 U	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St			108 Ruggles St			108 Ruggles St			108 Ruggles St			
		Sample Location:						108 Ruggles St			108 Ruggles St			108 Ruggles St			108 Ruggles St			
		Sample ID:						B6.25			B7			B10			B10.75			
		Sample Depth (ft.):						1.5-3	3-6	6-9.5	0.5-3	3-6	6-9	1-3	3-6	6-8.5	0.5-3	3-6	3-6	6-9
		Sample Date:						12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005 Field Dup	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.62 J	0.13 UJ	0.2 UJ	0.7 J	0.14 UJ	0.14 UJ	0.115 UJ	0.671 J	0.098 UJ	1.35	0.659	0.11 U	0.177
	Aroclor 1260	2	2	3	3	2	1	1 J	0.13 UJ	0.2 UJ	1.12 J	0.22 J	0.57 J	0.532 J	0.723 J	0.098 UJ	1.31	0.533	0.908	0.153
	Aroclor 1262	2	2	3	3	2	1	0.125 UJ	1.45 J	0.2 UJ	0.12 UJ	0.14 UJ	0.14 UJ	0.115 UJ	0.121 UJ	0.098 UJ	0.131 U	0.119 U	0.11 U	ND
	Total PCBs	2	2	3	3	2	1	1.62 J	1.45 J	0.4 UJ	1.82 J	0.22 J	0.57 J	0.532 J	1.394 J	0.197 UJ	2.66	1.192	0.908	0.33
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	25	146	119	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	14.9	11.9	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	108 Ruggles St						108 Ruggles St						108 Ruggles St				108 Ruggles St			
								Sample ID:	C6.25						C7						C10.75		D.75-6.25			D.75-7			
								Sample Depth (ft.):	3-6	6-9	1.5-3	1.5-3[1]	3-6	6-9	4-6	6-8.5	0.5-3	3-6	6-8.5	0.5-3	3-6	6-9	6-9[1]				
								Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005				
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																					
VOCs																												
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	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	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																												
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		NA	NA	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	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	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	7	40	40	7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	**108 Ruggles St**	**108 Ruggles St**				**108 Ruggles St**		**108 Ruggles St**			**108 Ruggles St**			
								Sample ID:	C6.25	C7				C10.75		D.75-6.25			D.75-7			
								Sample Depth (ft.):	3-6	6-9	1.5-3	1.5-3[1]	3-6	6-9	4-6	6-8.5	0.5-3	3-6	6-8.5	0.5-3	3-6	6-9	6-9[1]
								Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PCBs																						
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.125 UJ	0.15 UJ	0.13 UJ	ND	0.125 UJ	0.125 UJ	0.133 UJ	0.126 UJ	1.01 J	0.106 UJ	0.182 UJ	1.05 J	0.12 UJ	0.135 UJ	ND
	Aroclor 1260	2	2	3	3	2	1		1.1 J	1.116 J	1.177 J	1.2	0.197 J	0.125 UJ	0.133 UJ	0.126 UJ	0.975 J	0.106 UJ	0.182 UJ	1.2 J	0.3 J	0.135 UJ	ND
	Aroclor 1262	2	2	3	3	2	1		0.125 UJ	0.15 UJ	0.13 UJ	ND	0.125 UJ	0.125 UJ	0.133 UJ	0.126 UJ	0.114 UJ	0.106 UJ	0.182 UJ	0.12 UJ	0.12 UJ	0.135 UJ	ND
	Total PCBs	2	2	3	3	2	1		1.1 J	1.116 J	1.177 J	1.2	0.197 J	0.25 UJ	0.265 UJ	0.252 UJ	1.985 J	0.212 UJ	0.363 UJ	2.25 J	0.3 J	0.27 UJ	ND
Metals																						
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																						
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																						
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St			108 Ruggles St			108 Ruggles St	108 Ruggles St	108 Ruggles St		108 Ruggles St			
							Sample Location:														
							Sample ID:	D.75-8			D.75-9			D.75-10	D.75-10.75	D6.25		D7			
							Sample Depth (ft.):	0.5-3	3-6	6-9	1.5-3	1.5-3[1]	3-6	7-8	6-6.5	3-6	6-8.5	0.5-3	3-6	6-9	6-9
							Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														Field Dup
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	0.065 U	0.081 U	0.08 U	NA	NA	NA	NA	NA	NA	NA	0.059 U	0.062 U	0.13 U	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	0.065 U	0.081 U	0.08 U	NA	NA	NA	NA	NA	NA	NA	0.059 U	0.062 U	0.13 U	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	0.32 U	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA	0.29 U	0.31 U	0.64 U	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.065 U	0.081 U	0.08 U	NA	NA	NA	NA	NA	NA	NA	0.059 U	0.062 U	0.13 U	NA
	Tetrachloroethene	10	30	10	200	1	N/A	0.065 U	0.14	0.25	NA	NA	NA	NA	NA	NA	NA	0.059 U	0.062 U	0.13 U	NA
	Toluene	500	500	1,000	1,000	30	N/A	0.065 U	0.081 U	0.08 U	NA	NA	NA	NA	NA	NA	NA	0.059 U	0.062 U	0.13 U	NA
	Trichloroethene	2	90	2	700	0	N/A	0.065 U	0.081 U	0.08 U	NA	NA	NA	NA	NA	NA	NA	0.059 U	0.062 U	0.13 U	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	0.13 U	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	0.12 U	0.12 U	0.26 U	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	108 Ruggles St		108 Ruggles St			108 Ruggles St	108 Ruggles St	108 Ruggles St		108 Ruggles St			
								Sample ID:	D.75-8			D.75-9			D.75-10	D.75-10.75	D6.25		D7			
								Sample Depth (ft.):	0.5-3	3-6	6-9	1.5-3	1.5-3[1]	3-6	7-8	6-6.5	3-6	6-8.5	0.5-3	3-6	6-9	6-9
								Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														Field Dup
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		3.644 J	0.14 UJ	0.14 UJ	0.109 UJ	ND	0.308 J	0.154 U	0.107 U	0.122 UJ	0.158 UJ	1.35 J	0.295 J	0.204 UJ	0.139 UJ
	Aroclor 1260	2	2	3	3	2	1		1.6 J	0.26 J	0.14 UJ	0.109 UJ	0.11	0.119 UJ	0.154 U	0.107 U	0.216 J	0.158 UJ	1.42 J	0.298 J	0.204 UJ	0.139 UJ
	Aroclor 1262	2	2	3	3	2	1		0.118 UJ	0.14 UJ	0.14 UJ	0.109 UJ	ND	0.119 UJ	0.154 U	0.107 U	0.122 UJ	0.158 UJ	0.126 UJ	0.125 UJ	0.204 UJ	0.139 UJ
	Total PCBs	2	2	3	3	2	1		5.244 J	0.26 J	0.28 UJ	0.219 UJ	0.11	0.308 J	0.309 U	0.254 U	0.216 J	0.315 UJ	2.77 J	0.593 J	0.409 UJ	0.278 UJ
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		58	227	28	NA	NA	NA	NA	NA	NA	NA	28	12	41	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		8.2 U	13.4	12.6	NA	NA	NA	NA	NA	NA	NA	9.7	9.2	19.1	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles St		108 Ruggles St		108 Ruggles			108 Ruggles	108 Ruggles				
							Sample Location:													
							Sample ID:	D8		D9		D10			D10.75	SB-108-1				
							Sample Depth (ft.):	0.5-3	6-9	3-6	6-8	1.5-3	3-6	6-7.5	3-4	0-1	1-3	5-6	7-8	7-8
							Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010 Field Dup
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	0.071 U	0.029 U	0.052 U	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	0.071 U	0.029 U	0.052 U	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	0.35 U	0.15 U	0.26 U	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	0.071 U	0.029 U	0.052 U	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	0.071 U	0.029 U	0.052 U	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	0.071 U	0.029 U	0.052 U	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	0.071 U	0.029 U	0.052 U	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	0.14 U	0.058 U	0.1 U	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.28	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.30	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.38	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.37	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.35	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.23	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.31	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	0.70	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
	Sample Location:							**108 Ruggles St**		**108 Ruggles St**		**108 Ruggles**			**108 Ruggles**	**108 Ruggles**				
	Sample ID:							D8		D9		D10			D10.75	SB-108-1				
	Sample Depth (ft.):							0.5-3	6-9	3-6	6-8	1.5-3	3-6	6-7.5	3-4	0-1	1-3	5-6	7-8	7-8
	Sample Date:							12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010 Field Dup
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	1.2 J	0.137 UJ	0.108 UJ	0.137 UJ	0.122 UJ	0.097 UJ	0.106 UJ	0.135 UJ	0.298 J	0.574 U	0.0595 U	0.0854 U	NA
	Aroclor 1260	2	2	3	3	2	1	1.027 J	0.137 UJ	0.43 J	0.137 UJ	0.554 J	0.37 J	0.45 J	0.676 J	0.470 J	8.98 J	1.20 J	0.0854 U	NA
	Aroclor 1262	2	2	3	3	2	1	0.123 UJ	0.137 UJ	0.108 UJ	0.137 UJ	0.122 UJ	0.097 UJ	0.106 UJ	0.135 UJ	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	2.227 J	0.274 UJ	0.43 J	0.273 UJ	0.554 J	0.37 J	0.45 J	0.676 J	0.768 J	8.98 J	1.20 J	0.0854 U	NA
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	3.2 U	3.0 U	5.7	3.7 U	4.3 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	110	150	110	41	43
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	1.3	1.5	0.78	0.37 U	0.50
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	29	31	16	3.8	4.4
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	300	560	230	14	18
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	25	57	17	1.4	1.7
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	180	250	390	380	490
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	20	23	71	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	8.9 U	3.7 U	6.5 U	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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B - Detected in associated laboratory method blank.

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Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							108 Ruggles					108 Ruggles St				108 Ruggles St				
							Sample ID:	SB-108-2					SB-108-3				SB-108-4				
							Sample Depth (ft.):	0-1	1-3	3-4	7.5-8.5	10-11	0-1	1-3	5-6	7-8	0-1	0-1	1-3	5-6	8-9
							Sample Date:	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010 Field Dup	12/9/2010	12/9/2010	12/9/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.31	0.20 U	0.31	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.19 U	NA	NA	NA	NA	0.58	0.19 U	NA	NA	1.0	0.87	1.1	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.20	NA	NA	NA	NA	0.53	0.19 U	NA	NA	0.91	0.94	0.99	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.27	NA	NA	NA	NA	0.62	0.20	NA	NA	1.2	1.2	1.3	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	NA	0.32	0.19 U	NA	NA	0.49	0.52	0.55	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.19 U	NA	NA	NA	NA	0.24	0.19 U	NA	NA	0.44	0.45	0.49	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.24	NA	NA	NA	NA	0.62	0.19 U	NA	NA	1.1	0.95	1.2	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.30	NA	NA	NA	NA	0.81	0.30	NA	NA	1.3	1.3	1.9	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.19 U	NA	NA	NA	NA	0.42	0.19 U	NA	NA	0.64	0.67	0.72	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.19 U	NA	NA	NA	NA	0.21 U	0.19 U	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.22	NA	NA	NA	NA	0.80	0.22	NA	NA	1.4	0.80	1.4	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.32	NA	NA	NA	NA	1.1	0.35	NA	NA	1.8	1.4	1.9	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						108 Ruggles					108 Ruggles St				108 Ruggles St				
		Sample ID:						SB-108-2					SB-108-3				SB-108-4				
		Sample Depth (ft.):						0-1	1-3	3-4	7.5-8.5	10-11	0-1	1-3	5-6	7-8	0-1	0-1	1-3	5-6	8-9
		Sample Date:						12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010 Field Dup	12/9/2010	12/9/2010	12/9/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
PCBs																					
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.0609 U	0.428 J	0.291 J	0.0599 U	NA	0.122 U	0.161 U	0.0884 J	0.0550 U	1.100 J	1.070 J	4.45 J	0.105 J	0.0598 U
	Aroclor 1260	2	2	3	3	2	1	0.0609 U	0.757 J	0.612 J	0.0599 U	NA	1.68 J	4.95 J	0.0590 U	0.0550 U	0.645	0.623	1.23	0.0839 J	0.0598 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.0609 U	1.185 J	0.903 J	0.0599 U	NA	1.68 J	4.95 J	0.0884 J	0.0550 U	1.745 J	1.693 J	5.68 J	0.1889 J	0.0598 U
Metals																					
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9 U	NA	NA
	Arsenic	20	20	20	20	20	N/A	2.9 U	3.0 U	9.0	130	2.8 U	2.9 U	2.9 U	7.0	2.7 U	3.6	3.0 U	3.8	4.6	2.9 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	69	110	160	25	NA	90	45	170	6.9	100	75	130	550	13
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29 U	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.38	1.4	18	0.31 U	NA	0.96	0.50	1.2	0.27 U	0.96	0.77	1.7	0.87	0.29 U
	Chromium	30	30	200	200	30	N/A	12	16	12	4.1	NA	14	9.2	24	5.3	14	14	19	58	3.1
	Lead	300	300	300	300	300	N/A	83	440	1,000	8.4	NA	380	180	470	3.9	420	330	670	180	9.9
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.38	NA	NA
	Nickel	20	20	700	700	20	N/A	5.8	13	10	1.4	NA	8.4	5.1	41	2.5	7.9	6.7	10	1,400	2.0
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.9 U	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.59 U	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9 U	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	91	210	280	10	NA	200	91	300	8.3	210	160	330	130	7.6
Total Petroleum Hydrocarbons																					
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																					
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
								Sample Location:	**108 Ruggles St**	**108 Ruggles St**	**108 Ruggles St**	**108 Ruggles St**		**108 Ruggles St**			**118 Ruggles St**		**118 Ruggles St**		**118 Ruggles St**
								Sample ID:	SB-108-5	SB-108-6	SB-108-7	SB-108-8		SB-108-9			118 Comp 1		118 Comp 2		Front[6]
								Sample Depth (ft.):	0-1	0-1	0-1	2.5-3.5	6.5-8.5	1.5-2.5	7.5-10	11-12	0-3	3-6	0-3	3-6	0-0.5
								Sample Date:	12/10/2010	12/10/2010	12/10/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/16/2005	12/16/2005	12/20/2005	12/20/2005	2/6/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	2.2	1.8	0.06 U	2.6	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.24 U	0.21 U	0.35 U	1.3	NA	NA	NA	NA	0.7	0.65	0.06 U	1.6	NA
	Acenaphthylene	600	10	600	10	1	N/A		0.24 U	0.21 U	0.35 U	0.38 U	NA	NA	NA	NA	2.3	3.1	0.14	0.74	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.24 U	0.21 U	0.35 U	3.3	NA	NA	NA	NA	7.3	5.8	0.27	3.6	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.47	0.50	0.38	6.0	NA	NA	NA	NA	8.8	10	0.74	6	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.46	0.50	0.39	5.1	NA	NA	NA	NA	7.1	8.7	0.69	6	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		0.62	0.70	0.54	6.1	NA	NA	NA	NA	8.5	11	0.97	6.2	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.28	0.27	0.35 U	2.3	NA	NA	NA	NA	4.1	5.2	0.4	1.9	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.24 U	0.25	0.35 U	2.4	NA	NA	NA	NA	2.8	3.4	0.29	2.2	NA
	Chrysene	70	70	400	400	70	N/A		0.52	0.55	0.39	5.7	NA	NA	NA	NA	6.6	7.7	0.62	5.2	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.24 U	0.21 U	0.35 U	0.72	NA	NA	NA	NA	1	1.3	0.11	0.58	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		0.88	0.89	0.68	14	NA	NA	NA	NA	28	30	1.8	6.9	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.24 U	0.21 U	0.35 U	1.5	NA	NA	NA	NA	2.6	1.7	0.068	2.1	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.38	0.37	0.35 U	3.2	NA	NA	NA	NA	4.6	5.9	0.4	2.3	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.24 U	0.21 U	0.35 U	0.38 U	NA	NA	NA	NA	0.57 U	0.6 U	0.06 U	2.0	NA
	Naphthalene	40	500	40	1,000	4	N/A		0.24 U	0.21 U	0.35 U	0.38 U	NA	NA	NA	NA	0.57 U	0.6 U	0.06 U	4.1	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		0.61	0.59	0.44	14	NA	NA	NA	NA	30	21	1	24	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		0.91	0.84	0.51	11	NA	NA	NA	NA	20	22	1.2	5.4	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
	Sample Location:							**108 Ruggles St**	**108 Ruggles St**	**108 Ruggles St**	**108 Ruggles St**		**108 Ruggles St**			**118 Ruggles St**		**118 Ruggles St**		**118 Ruggles St**
	Sample ID:							SB-108-5	SB-108-6	SB-108-7	SB-108-8		SB-108-9			118 Comp 1		118 Comp 2		Front[6]
	Sample Depth (ft.):							0-1	0-1	0-1	2.5-3.5	6.5-8.5	1.5-2.5	7.5-10	11-12	0-3	3-6	0-3	3-6	0-0.5
	Sample Date:							12/10/2010	12/10/2010	12/10/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/9/2010	12/16/2005	12/16/2005	12/20/2005	12/20/2005	2/6/2006
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.0733 U	0.123 U	0.0529 U	0.0560 U	0.276 J	0.0512 U	0.0707 U	0.180 UJ	NA	NA	NA	NA	0.883
	Aroclor 1260	2	2	3	3	2	1	1.16 J	1.09 J	0.0529 U	0.542 J	0.139 U	0.0512 U	0.0707 U	0.180 UJ	NA	NA	NA	NA	0.013 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.013 U
	Total PCBs	2	2	3	3	2	1	1.16 J	1.09 J	0.0529 U	0.542 J	0.276 J	0.0512 U	0.0707 U	0.180 UJ	NA	NA	NA	NA	0.883
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	3.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	4.7	4.0	2.7 U	12	7.2 U	2.6 U	15	9.0 U	3.91	5.22	8.48	7.44	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	290	140	50	120	91	80	750	65	143	296	298	688	NA
	Beryllium	100	100	200	200	100	N/A	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	87	1.1	0.27 U	6.8	0.75	0.26 U	1.3	0.90 U	1.30	1.42	1.88	4.67	NA
	Chromium	30	30	200	200	30	N/A	17	19	33	11	7.9	80	36	11	13	14	36	33	NA
	Lead	300	300	300	300	300	N/A	1,100	580	10	1,300	130	12	2,300	48	242	99	446	560	NA
	Mercury	20	20	30	30	20	N/A	0.52	NA	NA	NA	NA	NA	NA	NA	0.404	0.152	0.627	1.23	NA
	Nickel	20	20	700	700	20	N/A	10	10	17	8.3	7.0	34	36	5.0	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	19	NA	NA	NA	NA	NA	NA	NA	0.72 U	0.75 U	0.79 U	1.12	NA
	Silver	100	100	200	200	100	N/A	0.69 U	NA	NA	NA	NA	NA	NA	NA	0.36 U	0.37 U	0.39 U	0.43 U	NA
	Thallium	8	8	60	60	8	N/A	3.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	260	230	35	210	57	33	700	41	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	351	530	166	86	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[1]	NA	NA	NA	NA	NA	NA	NA	NA	0.3	NA	0.91	0.44	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
	Sample Location:							**118 Ruggles St**		**118 Ruggles St**	**118 Ruggles St**		**118 Ruggles**		**118 Ruggles**			**118 Ruggles**		**118 Ruggles**
	Sample ID:							118 Ruggles Front Comp[6]		118 Ruggles Rear[6]	118 Ruggles Rear Comp[6]		A12		A13			A14		A15
	Sample Depth (ft.):							0-0.25	UN	0-0.5	UN	UN	0.75-3	3-6	0.5-3	0.5-3[1]	3-6	2-3	3-4.5	2.75-4
	Sample Date:							2/6/2006	2/6/2006	2/6/2006	2/6/2006	2/6/2006 Field Dup	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.073 U	0.088 U	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.073 U	0.088 U	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36 U	0.44 U	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.073 U	0.088 U	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.073 U	0.088 U	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.073 U	0.088 U	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.073 U	0.088 U	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.18 U	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	0.14	6.2	1.1	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.22	6.2	NA	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.18	0.89	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.71	11	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	1.8	20	NA	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	1.5	14	NA	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.75	6.1	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.91	4.5	NA	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	1.9	12	NA	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	1.6	17	NA	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.26	2.1	NA	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	4.4	50	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.23	8.6	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.82	3.9	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.067 U	6.3	NA	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.17	17	NA	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	3.3	59	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	4	50	NA	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						118 Ruggles St		118 Ruggles St	118 Ruggles St		118 Ruggles		118 Ruggles			118 Ruggles		118 Ruggles
		Sample ID:						118 Ruggles Front Comp[6]		118 Ruggles Rear[6]	118 Ruggles Rear Comp[6]		A12		A13			A14		A15
		Sample Depth (ft.):						0-0.25	UN	0-0.5	UN	UN	0.75-3	3-6	0.5-3	0.5-3[1]	3-6	2-3	3-4.5	2.75-4
		Sample Date:						2/6/2006	2/6/2006	2/6/2006	2/6/2006	2/6/2006 Field Dup	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005	12/20/2005
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.611	NA	0.012 U	NA	NA	3.84 J	0.529 J	2.128 J	2.5	0.119 UJ	2.4 J	0.964 J	0.167 UJ
	Aroclor 1260	2	2	3	3	2	1	0.269	NA	0.04	NA	NA	0.117 UJ	0.117 UJ	0.121 UJ	0.69	0.119 UJ	0.123 UJ	0.123 UJ	59.1 J
	Aroclor 1262	2	2	3	3	2	1	0.013 U	NA	0.012 U	NA	NA	0.117 UJ	0.117 UJ	0.121 UJ	ND	0.119 UJ	0.123 UJ	0.123 UJ	0.167 UJ
	Total PCBs	2	2	3	3	2	1	0.88	NA	0.04	NA	NA	3.84 J	0.529 J	2.128 J	3.19	0.238 UJ	2.4 J	0.964 J	59.1 J
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	6.22	5.2	NA	3.13	3.25	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	170	149	NA	44	52	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	1.51	1.38	NA	0.59	0.62	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	22	19	NA	11	14	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	388	307	NA	132	143	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	0.511	0.631	NA	0.137	0.151	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	1.09	0.82	NA	0.21 U	0.6	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	0.13 U	0.11 U	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	22	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2 U	11.1 U	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[1]	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
		Sample Location:						**118 Ruggles**		**118 Ruggles**		**118 Ruggles St**					**118 Ruggles St**	**118 Ruggles St**	**118 Ruggles St**	**118 Ruggles St**
		Sample ID:						C.5-12		C.5-13		C11-1					D14	RD-40-S	RD-42-S	RD-48-S
		Sample Depth (ft.):						1-3	3-5	1-3	3-5	1-3	0.5-3[i]	3-6	3-6[i]	6-9	3-4	1	1	1
		Sample Date:						12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	3/11/2010	3/11/2010	3/11/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023 U	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023 U	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023 U	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023 U	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023 U	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023 U	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.046 U	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	118 Ruggles	118 Ruggles		118 Ruggles St					118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St
								Sample ID:	C.5-12		C.5-13							D14	RD-40-S	RD-42-S	RD-48-S
								Sample Depth (ft.):	1-3	3-5	1-3	3-5	1-3	0.5-3[i]	3-6	3-6[i]	6-9	3-4	1	1	1
								Sample Date:	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	3/11/2010	3/11/2010	3/11/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA													
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.462	ND	0.592	ND	0.48	ND	0.351	ND	0.1 U	0.527	0.806 J	1.12 J	5.89 J
	Aroclor 1260	2	2	3	3	2	1	ND	ND	ND	ND	ND	0.38	0.1 U	ND	0.1 U	0.1 U	0.194 J	0.0572 UJ	0.203 UJ
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.462	ND	0.592	ND	0.48	0.38	0.351	ND	0.2 U	0.527	1.00 J	1.12 J	5.89 J
Metals																		NA	NA	
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	155	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.5	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						118 Ruggles St			118 Ruggles St				118 Ruggles St			
		Sample ID:						SB-118-1A			SB-118-1B				SB-118-1C			
		Sample Depth (ft.):						0-1	1-3	4-5	0-1	1-3	3-4	6-7	0-1	1-3	3-4.5	5-6
		Sample Date:						12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA											
VOCs																		
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																		
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																		
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.20 U	NA	NA	0.42 U	0.50 U	NA	NA	0.40 U	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.20 U	NA	NA	0.42 U	0.50 U	NA	NA	1.1	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.26	NA	NA	0.42 U	0.89	NA	NA	3.5	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.82	NA	NA	0.74	1.7	NA	NA	7.0	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.72	NA	NA	0.66	1.5	NA	NA	6.1	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.80	NA	NA	0.75	1.7	NA	NA	6.9	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.41	NA	NA	0.42 U	1.0	NA	NA	4.8	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.32	NA	NA	0.42 U	0.70	NA	NA	2.0	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.78	NA	NA	0.75	1.7	NA	NA	6.5	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.20 U	NA	NA	0.42 U	0.50 U	NA	NA	1.3	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	1.0	NA	NA	0.84	3.4	NA	NA	18	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	NA	NA	0.42 U	0.50 U	NA	NA	1.3	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.58	NA	NA	0.53	1.2	NA	NA	6.0	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.20 U	NA	NA	0.42 U	0.50 U	NA	NA	0.40 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.20 U	NA	NA	0.42 U	0.50 U	NA	NA	0.40 U	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	1.1	NA	NA	0.67	3.5	NA	NA	16	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	1.7	NA	NA	1.4	3.5	NA	NA	18	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte																			
		Sample Location:						**118 Ruggles St**			**118 Ruggles St**				**118 Ruggles St**			
		Sample ID:						SB-118-1A			SB-118-1B				SB-118-1C			
		Sample Depth (ft.):						0-1	1-3	4-5	0-1	1-3	3-4	6-7	0-1	1-3	3-4.5	5-6
		Sample Date:						12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA											
PCBs																		
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	2.27 J	15.2 J	0.0567 U	1.190 J	7.98	12.1	0.0550 U	0.783 J	1.700 J	2.86 J	0.0546 U
	Aroclor 1260	2	2	3	3	2	1	0.862 J	2.26 J	0.0567 U	0.297 J	1.19 J	1.54 J	0.0550 U	0.172 J	0.287 J	0.716 J	0.0546 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	3.132 J	17.46 J	0.0567 U	1.487 J	9.17 J	13.64 J	0.0550 U	0.955 J	1.987 J	3.576 J	0.0546 U
Metals																		
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	2.9 U	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	4.7	7.9	2.9 U	3.9	8.7	4.6	2.6 U	2.9 U	5.3	7.1	2.7 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	400	1,100	15	120	1,100	750	11	94	140	270	16
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	0.29 U	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	1.4	6.0	0.29 U	0.67	3.9	3.1	0.26 U	0.57	0.68	1.1	0.27 U
	Chromium	30	30	200	200	30	N/A	41	73	9.6	19	78	48	6.8	14	15	19	6.9
	Lead	300	300	300	300	300	N/A	560	1,200	6.3	270	1,100	610	3.3	230	190	390	3.1
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	0.28	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	14	40	4.8	9.1	47	33	3.4	7.0	8.8	12	4.0
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	5.7 U	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	0.57 U	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	2.9 U	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	17	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	310	2,000	100	140	890	780	11	130	110	260	16
Total Petroleum Hydrocarbons																		
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																		
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

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PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA	Sample Location: 118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St	
								Sample ID: SB-118-2	SB-118-3	SB-118-4	SB-118-5	SB-118-6	SB-118-7	
								Sample Depth (ft.): 0-1	0-1	0-1	0-1	6.5-7.5	6-6.5	6.5-7
								Sample Date: 12/8/2010	12/9/2010	12/9/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010
VOCs														
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA
VPH														
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA
EPH														
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.20 U	0.19 U	0.21 U	0.41 U	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.20 U	0.19 U	0.23	0.41 U	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.19 U	0.49	2.1	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.20 U	0.23	1.8	3.0	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.20 U	0.23	1.6	2.2	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.20 U	0.30	2.0	2.6	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.19 U	0.79	1.1	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.20 U	0.19 U	0.71	1.0	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.20 U	0.24	1.8	2.8	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.20 U	0.19 U	0.24	0.41 U	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.45	2.5	5.4	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.19 U	0.21 U	0.73	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.20 U	0.20	1.0	1.5	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.20 U	0.19 U	0.21 U	0.41 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.20 U	0.19 U	0.21 U	0.41 U	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.20 U	0.23	2.0	8.9	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.43	3.0	6.3	NA	NA	NA

TABLE 1
Summary of Analytical Detected Results for Soil Samples for EP-1 (101 and 111 Greenwood Street, and 98, 108, 118 Ruggles Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							Sample Location:	118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St	118 Ruggles St	
								Sample ID:	SB-118-2	SB-118-3	SB-118-4	SB-118-5	SB-118-6	SB-118-7	
								Sample Depth (ft.):	0-1	0-1	0-1	0-1	6.5-7.5	6-6.5	6.5-7
								Sample Date:	12/8/2010	12/9/2010	12/9/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA								
PCBs															
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.0574 U	0.230 J	3.39 J	3.02 J	0.300 J	0.0548 U	0.0580 U
	Aroclor 1260	2	2	3	3	2	1		0.0574 U	0.106 J	0.593 J	1.42 J	0.0895 J	0.0548 U	0.0580 U
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		0.0574 U	0.336 J	3.983 J	4.44 J	0.390 J	0.0548 U	0.0580 U
Metals															
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	2.9 U	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		3.0 U	2.9 U	3.3 U	12	2.9 U	2.7 U	2.9 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		15	110	260	730	64	24	14
	Beryllium	100	100	200	200	100	N/A		NA	0.29 U	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		0.30 U	0.51	1.2	2.8	0.38	0.27 U	0.29 U
	Chromium	30	30	200	200	30	N/A		11	22	25	100	16	8.5	3.6
	Lead	300	300	300	300	300	N/A		39	300	380	1,700	110	13	5.5
	Mercury	20	20	30	30	20	N/A		NA	0.30	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		4.1	9.5	15	38	7.2	4.6	1.3
	Selenium	400	400	800	800	400	N/A		NA	5.9 U	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	0.59 U	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	2.9 U	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	19	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		24	300	370	800	91	21	16
Total Petroleum Hydrocarbons															
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA
Metals, TCLP															
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]		NA	NA	NA	NA	NA	NA	NA

Notes:

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mg/L - milligrams per liter

B - Detected in associated laboratory method blank.

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NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

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PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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:							102 Comp 1			K1.3		K5.5		L1.3		M1.3		SB-185		
	Sample Depth (ft.):							0-3	3-6	6-native	0.5-3	7.5-8	0.5-3	5-7	1-4	9-10	3-4	7.5-8	2	4	6
	Sample Date:							6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/9/2008	6/9/2008	6/9/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA														
VOCs																					
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																					
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																					
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.258
	Acenaphthylene	600	10	600	10	1	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.193 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.28	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.692
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.46	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.69
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.43	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.75
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.59	0.36	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.30
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.963
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.763
	Chrysene	70	70	400	400	70	N/A	0.49	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.87
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.362
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.61	0.42	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.68
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.341
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.12
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.193 U
	Naphthalene	40	500	40	1,000	4	N/A	0.26 U	0.27 U	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.245
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.41	0.27 U	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.47
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.79	0.48	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.55

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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:	102 Comp 1		K1.3		K5.5		L1.3		M1.3		SB-185		
								Sample Depth (ft.):	0-3	3-6	6-native	0.5-3	7.5-8	0.5-3	5-7	1-4	9-10	3-4	7.5-8	2	4	6
								Sample Date:	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/9/2008	6/9/2008	6/9/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PCBs																						
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		ND	ND	ND	0.1 U	5.15	0.117 U	0.117 U	0.108 U	0.552	0.179	12.4	68.3 J	45.7 J	10.7 J
	Aroclor 1260	2	2	3	3	2	1		ND	ND	ND	0.1 U	0.13 U	0.117 U	0.117 U	0.141	0.111 U	0.108 U	0.113 U	1.64 U	1.08 U	0.231 U
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	0.1 U	1.13 U	0.117 U	0.117 U	0.108 U	0.111 U	0.108 U	0.113 U	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		ND	ND	ND	0.1 U	5.15	0.117 U	0.117 U	0.141	0.552	0.179	12.4	68.3 J	45.7 J	10.7 J
Metals																						
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.63 U
	Arsenic	20	20	20	20	20	N/A		1.52	3.48	6.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.07
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		27	58	421	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29 U
	Cadmium	2	2	30	30	2	N/A		0.44	0.8	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.49
	Chromium	30	30	200	200	30	N/A		16	9.15	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.82
	Lead	300	300	300	300	300	N/A		38	191	67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	673
	Mercury	20	20	30	30	20	N/A		0.097	0.232	0.111	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.131
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.9
	Selenium	400	400	800	800	400	N/A		0.63 U	0.73 U	0.77 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.79 U
	Silver	100	100	200	200	100	N/A		0.32 U	0.36 U	0.39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.33
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.48 U
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.46
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,490
Total Petroleum Hydrocarbons																						
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																						
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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:						SB-186		SB-187		SB-188			SB-189				SB-190					SB-191		
		Sample Depth (ft.):						2	3.4	4	6	1	4.5	9	1	3.5	7	11	1	4	4	6	8	1	4	8
		Sample Date:						6/9/2008	6/9/2008	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	6/9/2008	6/9/2008	6/9/2008 Field Dup	6/9/2008	6/9/2008	6/9/2008	6/9/2008	6/9/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																			
VOCs																										
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	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	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	518	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	811	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.41	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.80	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48.9	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.949	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.5	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.1	NA	NA	NA	NA	NA	NA
EPH																										
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	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	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	0.206 U	NA	0.195 U	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	0.206 U	NA	0.195 U	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.206 U	NA	0.341	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	0.645	NA	1.05	0.181 U	NA	0.175 U	0.184 U	NA	0.462	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	0.602	NA	0.890	0.181 U	NA	0.175 U	0.184 U	NA	0.495	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	0.886	NA	1.26	0.181 U	NA	0.175 U	0.184 U	NA	0.771	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.419	NA	0.456	0.181 U	NA	0.175 U	0.184 U	NA	0.301	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	0.330	NA	0.574	0.181 U	NA	0.175 U	0.184 U	NA	0.265	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	0.738	NA	1.24	0.181 U	NA	0.175 U	0.184 U	NA	0.512	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	NA	NA	0.206 U	NA	0.195 U	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	1.58	NA	2.50	0.181 U	NA	0.175 U	0.184 U	NA	0.954	9.96 U	9.63 U	NA	0.182 U	NA	0.221	0.186 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.206 U	NA	0.195 U	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	0.449	NA	0.430	0.181 U	NA	0.175 U	0.184 U	NA	0.346	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	0.206 U	NA	0.195 U	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	0.206 U	NA	0.195 U	0.181 U	NA	0.175 U	0.184 U	NA	0.189 U	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	1.12	NA	1.64	0.181 U	NA	0.175 U	0.184 U	NA	0.348	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	0.943	NA	1.73	0.181 U	NA	0.175 U	0.184 U	NA	0.588	9.96 U	9.63 U	NA	0.182 U	NA	0.220 U	0.186 U

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA	Sample Location:	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St
								Sample ID:	SB-186	SB-187	SB-188		SB-189				SB-190					SB-191		
								Sample Depth (ft.):	2	4	1	4.5	9	1	3.5	7	11	1	4	4	6	8	1	4	8
								Sample Date:	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	6/9/2008	6/9/2008	6/9/2008 Field Dup	6/9/2008	6/9/2008	6/9/2008	6/9/2008	6/9/2008
PCBs																									
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.798 J	0.3760 J	0.181 J	4.63 J	0.3580 J	0.436 J	0.0510 U	0.0673 J	0.0509 U	0.191 J	0.0531 U	0.0557 U	0.199 J	0.310 J	0.358 J	0.0522 U	0.142 J	0.0648 U	0.0522 U
	Aroclor 1260	2	2	3	3	2	1		0.402 J	0.6350 J	0.0889 J	1.25 J	0.2220 J	0.306 J	0.0510 U	0.0531 U	0.0509 U	0.0552 U	0.0531 U	0.425 J	0.0581 U	0.119 J	0.616 J	0.0522 U	0.0510 U	0.0648 U	0.0522 U
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		1.2 J	1.0110 J	0.2699 J	5.88 J	0.5800 J	0.742 J	0.0510 U	0.0673 J	0.0509 U	0.191 J	0.0531 U	0.425 J	0.199 J	0.429 J	0.974 J	0.0522 U	0.142 J	0.0648 U	0.0522 U
Metals																									
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	4.93 U	NA	4.66 U	4.35 U	NA	4.18 U	4.42 U	NA	4.53 U	4.78 U	4.62 U	NA	4.37 U	NA	5.27 U	4.45 U
	Arsenic	20	20	20	20	20	N/A		NA	NA	NA	32.0	NA	22.8	4.33	NA	2.87	2.76 U	NA	5.87	11.5	8.08	NA	4.10	NA	8.23	4.20
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	432	NA	343	12.8	NA	15.2	24.8	NA	97.8	398	438	NA	9.74	NA	358	11.9
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	0.31 U	NA	0.57	0.28 U	NA	0.27 U	0.31	NA	0.29 U	0.30 U	0.29 U	NA	0.28 U	NA	0.78	0.28 U
	Cadmium	2	2	30	30	2	N/A		NA	NA	NA	2.44	NA	1.30	0.28 U	NA	0.27 U	0.28 U	NA	1.15	1.26	1.74	NA	0.28 U	NA	0.37	0.28 U
	Chromium	30	30	200	200	30	N/A		NA	NA	NA	41.9	NA	28.1	9.83	NA	4.83	4.61	NA	14.3	122	45.5	NA	10.8	NA	14.8	8.17
	Lead	300	300	300	300	300	N/A		NA	NA	NA	846	NA	801	4.34	NA	4.50	31.1	NA	258	1,510	460	NA	3.87	NA	219	4.39
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	0.823	NA	0.258	0.025 U	NA	0.013 U	0.013	NA	0.437	0.651	0.688	NA	0.016 U	NA	0.025 U	0.014 U
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	33.6	NA	30.8	6.31	NA	3.16	2.60	NA	7.75	25.5	13.7	NA	4.44	NA	9.90	3.99
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	6.16 U	NA	5.83 U	5.43 U	NA	5.23 U	5.52 U	NA	5.66 U	5.98 U	5.78 U	NA	5.46 U	NA	6.58 U	5.56 U
	Silver	100	100	200	200	100	N/A		NA	NA	NA	7.37	NA	8.88	1.04	NA	0.62	0.56 U	NA	1.43	2.87	0.58 U	NA	0.80	NA	0.74	1.09
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	3.70 U	NA	3.50 U	3.26 U	NA	3.14 U	3.31 U	NA	3.40 U	3.59 U	3.47 U	NA	3.28 U	NA	3.95 U	3.34 U
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	24.0	NA	18.8	13.4	NA	8.15	6.04	NA	13.8	16.6	11.8	NA	10.4	NA	23.0	12.6
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	759	NA	367	23.5	NA	13.2	37.1	NA	181	404	310	NA	12.3	NA	146	14.8
Total Petroleum Hydrocarbons																									
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	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	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																									
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0[(1)]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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		102 Greenwood St	
	Sample ID:							SB-192			SB-193			SB-194			SB-195				SB-196			SB-102-1		SB-102-2	
	Sample Depth (ft.):							1	4	9	1	4	10	1	4	9	1	7.5	9	11	1	3.5	8	0-1	1-3	0-1	1-3
	Sample Date:							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	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	12/15/2010	12/15/2010	12/15/2010	12/15/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																				
VOCs																											
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A	NA	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	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																											
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.208 U	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	0.193 U	0.178 U	NA	0.244	0.181 U	0.359 U	0.279	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.413	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.757	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.467	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.800	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.291	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.278	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Chrysene	70	70	400	400	70	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.853	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.208 U	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.195	0.178 U	NA	0.211 U	0.181 U	0.359 U	2.30	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.208 U	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.333	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	0.748	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	0.193 U	0.178 U	NA	0.525	0.181 U	0.359 U	1.21	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	0.193 U	0.178 U	NA	0.260	0.181 U	0.359 U	2.00	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	0.193 U	0.178 U	NA	0.211 U	0.181 U	0.359 U	1.52	0.182 U	NA	0.233 U	0.185 U	NA	NA	0.172 U	NA	0.18 U	NA	0.37 U	NA

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA	Sample Location:	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St	102 Greenwood St
								Sample ID:	SB-192			SB-193			SB-194			SB-195				SB-196			SB-102-1		SB-102-2	
								Sample Depth (ft.):	1	4	9	1	4	10	1	4	9	1	7.5	9	11	1	3.5	8	0-1	1-3	0-1	1-3
								Sample Date:	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	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	12/15/2010	12/15/2010	12/15/2010	12/15/2010
PCBs																												
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		0.0521 U	0.0532 U	0.0503 U	0.215 J	0.299 J	0.0528 U	3.02 J	0.576 U	0.0532 U	2.45 J	4.34 J	0.141 J	0.0515 U	0.284 J	0.191 J	0.204 J	0.179 J	0.0565 U	0.0692 J	0.0551 U
	Aroclor 1260	2	2	3	3	2	1		0.0521 U	0.0532 U	0.0503 U	0.0863 J	0.0624 U	0.0528 U	0.108 U	26.6 J	0.0532 U	0.0558 U	0.138 U	0.0546 U	0.0515 U	0.0515 U	0.0507 U	0.0500 U	0.0639 U	0.0888 J	0.0566 U	0.0889 J
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		0.0521 U	0.0532 U	0.0503 U	0.3013 J	0.299 J	0.0528 U	3.02 J	26.6 J	0.0532 U	2.45 J	4.34 J	0.141 J	0.0515 U	0.284 J	0.191 J	0.204 J	0.179 J	0.0888 J	0.0692 J	0.0889 J
Metals																												
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	4.63 U	4.26 U	NA	5.06 U	4.34 U	4.31 U	4.99 U	4.36 U	NA	5.58 U	4.43 U	NA	NA	4.12 U	NA	2.5 U	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		NA	8.68	4.66	NA	14.2	3.72	13.9	11.3	2.73 U	NA	7.70	2.77 U	NA	NA	2.58 U	NA	2.5 U	2.9 U	2.8 U	2.9 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		NA	47.3	10.6	NA	343	19.4	177	227	17.3	NA	183	15.2	NA	NA	12.0	NA	28	400	40	32
	Beryllium	100	100	200	200	100	N/A		NA	0.29 U	0.27 U	NA	0.93	0.28 U	0.38	0.63	0.28 U	NA	0.67	0.28 U	NA	NA	0.26 U	NA	0.25 U	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		NA	0.29 U	0.27 U	NA	0.45	0.28 U	1.52	2.55	0.28 U	NA	1.41	0.28 U	NA	NA	0.26 U	NA	0.25 U	5.0	0.28 U	0.29 U
	Chromium	30	30	200	200	30	N/A		NA	9.06	13.6	NA	13.0	8.19	19.6	27.0	6.54	NA	9.73	7.40	NA	NA	2.93	NA	6.7	16	7.1	8.1
	Lead	300	300	300	300	300	N/A		NA	157	2.64	NA	161	3.90	1,030	559	5.02	NA	982	4.43	NA	NA	4.78	NA	49	2,900	60	75
	Mercury	20	20	30	30	20	N/A		NA	0.127	0.013 U	NA	0.079	0.020 U	1.00	0.161	0.024 U	NA	0.201	0.017 U	NA	NA	0.019 U	NA	0.049	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		NA	4.53	4.96	NA	17.8	4.07	13.8	33.8	3.12	NA	11.7	2.84	NA	NA	2.49	NA	5.1	9.9	4.0	4.6
	Selenium	400	400	800	800	400	N/A		NA	5.79 U	5.33 U	NA	6.33 U	5.43 U	5.39 U	6.23 U	5.45 U	NA	6.98 U	5.54 U	NA	NA	5.15 U	NA	5.1 U	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	0.79	0.80	NA	1.42	0.77	3.21	9.48	0.55 U	NA	0.70 U	0.56 U	NA	NA	0.52 U	NA	0.51 U	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	3.48 U	3.20 U	NA	3.80 U	4.10	3.23 U	3.74 U	3.27 U	NA	4.19 U	3.33 U	NA	NA	3.09 U	NA	2.5 U	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	17.5	10.5	NA	27.9	9.65	16.7	20.7	7.18	NA	18.4	13.4	NA	NA	5.15 U	NA	14	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	44.2	14.2	NA	209	15.9	336	182	18.6	NA	367	10.1	NA	NA	12.6	NA	38	1,200	49	53
Total Petroleum Hydrocarbons																												
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																												
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							102 Greenwood St		102 Greenwood St				102 Greenwood St				102 Greenwood St				102 Greenwood St				
							Sample Location:	102 Greenwood St		102 Greenwood St				102 Greenwood St				102 Greenwood St				102 Greenwood St				
							Sample ID:	SB-102-3		SB-102-4A				SB-102-4B				SB-102-4C				SB-102-4D				
							Sample Depth (ft.):	0-1	1-3	0-1	1-3	5-6	7-9	0-1	1-3	5-6	8-10	0-1	1-3	5-7	10-12	0-1	0-1	1-3	4-5.5	8-10
							Sample Date:	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010 Field Dup	12/16/2010	12/16/2010	12/16/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																			
VOCs																										
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	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	100	500	500	100	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	1,000	3,000	3,000	1,000	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	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																										
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	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	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.20	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.32	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.73 U	NA	0.26	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.80	0.34	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.73 U	NA	0.26	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.77	0.33	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.73 U	NA	0.36	0.22 U	NA	NA	0.24	NA	NA	NA	1.1	0.46	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.32	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.38	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.73 U	NA	0.26	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.77	0.35	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.73 U	NA	0.40	0.22 U	NA	NA	0.20	NA	NA	NA	1.5	0.48	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.42	0.20	NA	NA	0.21 U	0.20 U	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.73 U	NA	0.20 U	0.22 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.73 U	NA	0.41	0.22 U	NA	NA	0.20 U	NA	NA	NA	1.4	0.53	NA	NA	0.21 U	0.20 U	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.73 U	NA	0.42	0.23	NA	NA	0.20 U	NA	NA	NA	1.2	0.62	NA	NA	0.21 U	0.22	NA	NA	NA

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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-102-3		SB-102-4A				SB-102-4B				SB-102-4C				SB-102-4D				
		Sample Depth (ft.):						0-1	1-3	0-1	1-3	5-6	7-9	0-1	1-3	5-6	8-10	0-1	1-3	5-7	10-12	0-1	0-1	1-3	4-5.5	8-10
		Sample Date:						12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010 Field Dup	12/16/2010	12/16/2010	12/16/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																			
PCBs																										
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.099 J	0.301 J	0.612 J	0.682 J	3.73 J	0.0524 U	0.0632 U	0.278 J	0.318 J	0.0524 U	0.974 J	0.404 J	0.42 J	0.0647 U	0.307 J	0.543 J	0.298 J	0.0707 U	0.0534 U
	Aroclor 1260	2	2	3	3	2	1	0.0591 U	0.131 J	0.0615 U	0.213 J	0.670 J	0.0524 U	0.0632 U	0.119 J	0.110 J	0.0524 U	0.231 J	0.205 J	0.254 J	0.0647 U	0.0615 U	0.0625 U	0.150 J	0.0707 U	0.0534 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.099 J	0.432 J	0.612 J	0.895 J	4.40 J	0.0524 U	0.0632 U	0.397 J	0.428 J	0.0524 U	1.205 J	0.609 J	0.674 J	0.0647 U	0.307 J	0.543 J	0.448 J	0.0707 U	0.0534 U
Metals																										
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	2.7 U	15	2.8 U	4.6	2.7 U	2.6 U	3.3	3.0 U	3.4 U	2.6 U	3.5	3.6	3.0 U	3.4 U	3.0 U	2.9 U	4.5	11	2.6 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	70	260	79	170	160	11	410	67	250	21	170	85	260	41	65	140	120	510	23
	Beryllium	100	100	200	200	100	N/A	NA	0.32 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.50	1.2	0.62	1.2	18	0.26 U	1.3	0.36	4.1	0.26 U	1.6	0.62	1.5	0.34 U	0.52	0.59	0.69	2.1	0.26 U
	Chromium	30	30	200	200	30	N/A	15	46	21	42	43	5.8	24	9.7	22	10	17	8.3	27	12	11	14	9.2	31	9.3
	Lead	300	300	300	300	300	N/A	210	2,000	310	460	1,300	2.7	550	150	840	4.3	500	440	1,000	6.5	180	270	300	490	4.4
	Mercury	20	20	30	30	20	N/A	NA	93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	8.0	49	15	44	29	3.4	15	7.6	42	4.8	14	6.8	34	7.9	6.5	11	8.5	17	4.6
	Selenium	400	400	800	800	400	N/A	NA	6.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	130	320	170	280	980	13	410	110	820	24	380	150	450	38	170	160	180	470	18
Total Petroleum Hydrocarbons																										
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	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	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																										
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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-102-5A				SB-102-5B					SB-102-5C				SB-102-5D				SB-102-6	
								Sample Depth (ft.):	0-1	1-3	5-7	8-10	0-1	1-3	5-6	6-8	11-13	0-1	1-3	5-6	7-9	0-1	1-3	5-7	7-9	0-1	1-3
								Sample Date:	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/16/2010	12/16/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																					
VOCs																												
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	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	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																												
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Acenaphthylene	600	10	600	10	1	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		0.43	0.39 U	NA	NA	0.22	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.23	NA	NA	NA	0.19 U	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Chrysene	70	70	400	400	70	N/A		0.43 U	0.39 U	NA	NA	0.21	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		0.46	0.39 U	NA	NA	0.21	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.25	NA	NA	NA	0.19 U	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Naphthalene	40	500	40	1,000	4	N/A		0.43 U	0.39 U	NA	NA	0.20 U	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.21 U	NA	NA	NA	0.19 U	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A		0.43 U	0.39 U	NA	NA	0.22	NA	NA	NA	NA	0.20 U	NA	NA	NA	0.28	NA	NA	NA	0.19 U	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		0.86	0.39 U	NA	NA	0.33	NA	NA	NA	NA	0.28	NA	NA	NA	0.39	NA	NA	NA	0.19 U	NA

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							102 Greenwood St				102 Greenwood St					102 Greenwood St				102 Greenwood St				102 Greenwood St	
		Sample Location:						102 Greenwood St				102 Greenwood St					102 Greenwood St				102 Greenwood St				102 Greenwood St	
		Sample ID:						SB-102-5A				SB-102-5B					SB-102-5C				SB-102-5D				SB-102-6	
		Sample Depth (ft.):						0-1	1-3	5-7	8-10	0-1	1-3	5-6	6-8	11-13	0-1	1-3	5-6	7-9	0-1	1-3	5-7	7-9	0-1	1-3
		Sample Date:						12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/16/2010	12/16/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																			
PCBs																										
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.334 J	4.55 J	5.72 J	0.0762 J	3.53 J	4.64 J	0.206 J	0.0631 U	NA	0.248 J	0.820 J	0.0725 U	0.0567 U	0.626 J	1.21 J	0.605 J	0.0638 U	1.36 J	243 J
	Aroclor 1260	2	2	3	3	2	1	0.177 J	0.445 J	0.200 U	0.0523 U	0.796 J	0.434 J	0.0679 U	0.0631 U	NA	0.113 J	0.111 J	0.0725 U	0.0567 U	0.206 J	0.166 J	0.114 J	0.0638 U	0.223 J	6.18 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.511 J	4.995 J	5.72 J	0.0762 J	4.326 J	5.074 J	0.206 J	0.0631 U	NA	0.361 J	0.931 J	0.0725 U	0.0567 U	0.832 J	1.376 J	0.719 J	0.0638 U	1.583 J	243 J
Metals																										
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	7.3	4.7	31	2.5 U	14	7.9	15	4.1	NA	4.8	4.2	7.4	2.7 U	7.7	4.3	15	2.8 U	2.9 U	2.9 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	220	290	280	17	250	260	360	210	NA	210	1,200	670	26	230	210	1,200	21	77	200
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.32 U	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	1.1	4.4	0.50	0.25 U	1.1	2.1	0.82	0.83	NA	1.9	1.3	0.73	0.27 U	1.3	2.9	21	0.28 U	0.29 U	11
	Chromium	30	30	200	200	30	N/A	23	30	9.4	9.0	27	31	19	15	NA	14	21	19	12	24	19	58	6.4	9.2	22
	Lead	300	300	300	300	300	N/A	550	310	1,900	4.7	370	420	390	330	3.3	790	4,600	1,200	6.2	620	1,500	3,600	10	270	2,300
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.66	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	20	22	17	4.0	56	25	17	10	NA	12	13	15	5.4	24	20	77	2.5	7.0	31
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.4 U	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.64 U	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	330	510	220	16	350	680	620	390	NA	1,000	980	610	14	160	280	5,200	80	57	18,000
Total Petroleum Hydrocarbons																										
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	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	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																										
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							102 Greenwood St			102 Greenwood St				102 Greenwood St				102 Greenwood St				102 Greenwood St			
		Sample Location:						102 Greenwood St			102 Greenwood St				102 Greenwood St				102 Greenwood St				102 Greenwood St			
		Sample ID:						SB-102-7			SB-102-8A				SB-102-8B				SB-102-8C				SB-102-8D			
		Sample Depth (ft.):						0-1	1-3	1-3	0-1	1-3	5-6	7-9	0-1	1-3	5-6	7-9	0-1	1-3	5-7	8-10	0-1	1-3	5-7	8-10
		Sample Date:						12/16/2010	12/16/2010	12/16/2010 Field Dup	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																			
VOCs																										
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	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	100	500	500	100	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	1,000	3,000	3,000	1,000	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	100	500	500	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																										
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	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	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	10^	10^	NS	NS	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.32	NA	NA	0.20 U	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.20 U	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.60	NA	NA	0.20 U	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.33	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.79	1.6	NA	NA	0.20 U	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.32	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.78	1.6	NA	NA	0.20 U	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.37	0.21 U	0.20	NA	NA	NA	NA	NA	NA	NA	NA	1.0	2.0	NA	NA	0.20 U	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.32	0.64	NA	NA	0.20 U	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.39	0.62	NA	NA	0.20 U	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	0.35	0.21 U	0.19	NA	NA	NA	NA	NA	NA	NA	NA	0.81	1.7	NA	NA	0.20 U	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.24	NA	NA	0.20 U	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.51	0.21 U	0.24	NA	NA	NA	NA	NA	NA	NA	NA	1.3	2.7	NA	NA	0.20 U	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.30	NA	NA	0.20 U	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.26	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.44	0.91	NA	NA	0.20 U	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.19 U	NA	NA	0.20 U	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	0.19 U	0.21 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.31	NA	NA	0.20 U	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.46	0.21 U	0.28	NA	NA	NA	NA	NA	NA	NA	NA	0.79	3.5	NA	NA	0.20 U	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.85	0.21 U	0.44	NA	NA	NA	NA	NA	NA	NA	NA	0.93	3.3	NA	NA	0.21	NA	NA	NA

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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-102-7		SB-102-8A				SB-102-8B				SB-102-8C				SB-102-8D			
								Sample Depth (ft.):	0-1	1-3	0-1	1-3	5-6	7-9	0-1	1-3	5-6	7-9	0-1	1-3	5-7	8-10	0-1	1-3	5-7	8-10
								Sample Date:	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA			Field Dup																
PCBs																										
(mg/kg)	Aroclor 1254	2	2	3	3	2	1		34 J	1.77 J	5.63 J	0.264 J	1.97 J	529 J	0.0869 J	6.22 J	83.3 J	37.4 J	0.0561 U	0.578 J	32.8 J	80.3 J	0.32 J	0.0931 J	3.02 J	8280 J	0.52 U
	Aroclor 1260	2	2	3	3	2	1		1.18 U	0.0653 U	0.255 U	0.0982 J	1.17 J	13.6 U	0.0606 U	0.216 U	2.47 U	1.13 U	0.0561 U	0.0641 U	1.12 U	2.48 U	0.0889 U	0.059 U	0.542 J	250 U	0.52 U
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		34 J	1.77 J	5.63 J	0.3622 J	3.14 J	529 J	0.0869 J	6.22 J	83.3 J	37.4 J	0.0561 U	0.578 J	32.8 J	80.3 J	0.32 J	0.0931 J	3.562 J	8280 J	0.52 U
Metals																										
(mg/kg)	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A		4.4	4.4	4.5	4.3	3.8	19	3.0 U	6.4	9.1	10	5.9 U	4.4	8.7	6.3	2.9 U	2.9 U	9.2	7.4	2.5 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		170	210	200	89	1,100	1,400	26	190	290	240	56	140	340	250	22	23	300	270	17
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29 U	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A		1.4	1.3	0.62	0.79	3.7	2.1	0.30 U	3.3	10	1.9	0.59 U	1.0	2.1	11	0.29 U	0.29 U	6.3	12	0.25 U
	Chromium	30	30	200	200	30	N/A		22	23	11	22	100	44	3.6	26	16	13	8.6	13	27	15	9.7	7.8	25	21	9.4
	Lead	300	300	300	300	300	N/A		840	540	220	510	2,900	1,100	13	770	1,100	410	15	290	1,100	380	5.8	32	960	1,600	190
	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A		10	16	12	17	33	28	0.91	20	17	12	3.3	8.8	25	15	4.8	4.2	30	24	5.2
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.7 U	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.57 U	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9 U	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		390	350	180	160	950	930	33	750	1,800	310	90	290	640	510	19	33	790	1,600	22
Total Petroleum Hydrocarbons																										
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	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	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																										
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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-102-9		SB-102-10		SB-102-11			SB-102-12			TP 102 B	
								Sample Depth (ft.):	0-1	0-1	1-3	0-1	1-3	1-2	2-6	7-9	0.5-1.5	3-5	7-9	5-7	7-8
								Sample Date:	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/9/2010	12/9/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA			Field Dup										
VOCs																				
	Chlorobenzene	3.0	100	3.0	100	1.0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Methyl-2-pentanone	50	400	50	400	0.4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethene	10	30	10	200	1	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethene	2	90	2	700	0	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	500	500	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	200	200	2	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1,000	1,000	40	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1,000	1,000	30	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	300	1,000	300	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																				
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	430
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	190
	Dibenzofuran	10^	10^	NS	NS	100	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Acenaphthylene	600	10	600	10	1	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Benzo(a)anthracene	7	7	40	40	7	N/A		0.62	0.57	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	1.9
	Benzo(a)pyrene	2	2	4	4	2	N/A		0.19 U	0.65	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	1.6
	Benzo(b)fluoranthene	7	7	40	40	7	N/A		0.81	0.84	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	2.4
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A		0.30	0.34	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	1.1
	Benzo(k)fluoranthene	70	70	400	400	70	N/A		0.30	0.28	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.86
	Chrysene	70	70	400	400	70	N/A		0.63	0.61	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	2.1
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A		0.67	0.74	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	4.2
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A		0.43	0.40	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	1.3
	2-Methylnaphthalene	80	300	80	500	0.7	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Naphthalene	40	500	40	1,000	4	N/A		0.19 U	0.19 U	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	0.71 U
	Phenanthrene	500	500	1,000	1,000	10	N/A		0.53	0.57	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	2.9
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A		1.2	1.1	0.18 U	0.20 U	NA	NA	NA	NA	NA	NA	NA	4.0

TABLE 2
Summary of Analytical Detected Results for Soil Samples for EP-2 (102 Greenwood Street)
Acquired Residential Properties
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-102-9		SB-102-10		SB-102-11			SB-102-12			TP 102 B	
								Sample Depth (ft.):	0-1	0-1	1-3	0-1	1-3	1-2	2-6	7-9	0.5-1.5	3-5	7-9	5-7	7-8
								Sample Date:	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/9/2010	12/9/2010
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA			Field Dup										
PCBs																				
(mg/kg)	Aroclor 1254	2	2	3	3	2	1	0.058 U	0.178 J	0.246 J	0.35 J	0.05 U	0.0523 U	0.25 J	0.0559 U	0.547 J	0.0514 U	0.0571 U	1.5	23
	Aroclor 1260	2	2	3	3	2	1	0.058 U	0.0593 U	0.0522 U	0.0565 U	0.05 U	0.0523 U	0.0621 U	0.0559 U	0.11 J	0.984 J	0.0571 U	0.13 U	2.8 U
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U	2.8 U
	Total PCBs	2	2	3	3	2	1	0.058 U	0.178 J	0.246 J	0.35 J	0.05 U	0.0523 U	0.25 J	0.0559 U	0.657 J	0.984 J	0.0571 U	1.5	23
Metals																				
(mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	4.5	4.4	2.5 U	2.8 U	2.6 U	2.7 U	12	2.7 U	2.7 U	3.1	2.7 U	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	150	130	26	45	10	34	650	30	120	150	24	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.88	0.90	0.25 U	0.28 U	0.26 U	0.27 U	2.8	0.27 U	0.71	1.2	0.27 U	NA	NA
	Chromium	30	30	200	200	30	N/A	18	16	9.6	8.7	4.8	6.5	28	7.6	16	8.7	5.8	NA	NA
	Lead	300	300	300	300	300	N/A	330	330	21	130	21	66	1,500	2.7	290	270	9.7	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	13	13	5.8	8.4	4.9	6.0	46	3.8	12	8.4	3.4	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	190	200	26	68	18	53	830	17	210	260	44	NA	NA
Total Petroleum Hydrocarbons																				
(mg/kg)	Diesel Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Gasoline Range Organics	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, TCLP																				
(mg/L)	Lead, TCLP	NS	NS	NS	NS	NS	5.0(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All units in mg/kg unless otherwise specified.

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

mg/L - milligrams per liter

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.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

UN - Depth not available in historical report.

VOCs - Volatile Organic Compounds.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

TSCA - Toxic Substances Control Act criteria.

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

^ - TRC developed standards.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - For reference purposes only.

TABLE 3
Summary of Analytical Results for Dioxin Investigative Soil Samples -- June 2011
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							SB-98-4			SB-98-7		SB-101-5A		SB-101-6B	
							Sample ID:									
							Sample Depth (ft.):	0-1	1-3	1-3	0-1	1-3	0-1	1-3	0-1	1-3
							Sample Date:	06/07/2011	06/07/2011	06/07/2011 Field Dup	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA									
Dioxins																
(pg/g)	TEQs (WHO2005, ND=0, EMPC=EMPC)	20	20	50	50	20	N/A	6.42	50.8	42.0	26.1	33.9	9.58	179	29.9	110
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)	20	20	50	50	20	N/A	6.97	56.5	47.6	31.5	39.3	45.6	186	34.6	116
	TEQs (WHO2005, ND=0, EMPC=0)	20	20	50	50	20	N/A	5.04	33.6	32.5	22.2	25.1	9.58	135	23.6	81.4
	TEQs (WHO2005, ND=DL/2, EMPC=0)	20	20	50	50	20	N/A	5.59	39.3	38.1	27.6	30.6	45.6	141	28.3	87.3
PCB Congeners																
(pg/g)	***Total PCB Congeners***	2,000,000	2,000,000	3,000,000	3,000,000	2,000,000	1,000,000	342,000	4,350,000	8,220,000	1,020,000	1,710,000	1,470,000	########	4,490,000	########
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)	20	20	50	50	20	N/A	1.36	115	156	2.64	47.9	31.4	410	54.4	295
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)	20	20	50	50	20	N/A	14.9	115	156	16.3	51.2	34.7	410	57.3	298
TEQ Summation**																
(pg/g)	***TEQs (ND=0; EMPC=EMPC)***	20	20	50	50	20	N/A	7.78	166	198	29.1	81.7	40.9	589	84.3	405
	TEQs (ND=DL/2; EMPC=EMPC)	20	20	50	50	20	N/A	21.8	171	204	48.2	90.5	80.3	596	91.9	414

Notes:

pg/g - picograms per gram (dry weight)or parts per trillion (ppt).

B - Compound detected in associated method blank

C - Congener has coeluters. When Cxxx, refer to congener number xxx for data.

E - Value is estimated; Concentration of the target analyte exceeds the instrument calibration range.

J - Estimated value.

K - Estimated Maximum Possible Concentration.

ND - Not detected.

Q - Quantitative interference.

U - Compound was not detected at specified quantitation limit.

PCBs - Polychlorinated Biphenyls.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

** - Sum of Dioxin-like PCB Congeners TEQ and Dioxins TEQ.

TABLE 3
Summary of Analytical Results for Dioxin Investigative Soil Samples -- June 2011
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							SB-101-8A		SB-102-8D		SB-108-1		SB-108-4		SB-111-1		SB-111-3	
							Sample ID:												
							Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-2
							Sample Date:	06/07/2011	06/07/2011	06/08/2011	06/08/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA												
Dioxins																			
(pg/g)	TEQs (WHO2005, ND=0, EMPC=EMPC)	20	20	50	50	20	N/A	39.1	47.9	3.85	78.9	21.5	76.2	23.6	30.2	30.1	42.9	20.8	4.12
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)	20	20	50	50	20	N/A	44.9	53.8	3.85	84.6	27.1	87.7	31.8	38.4	35.1	47.7	26.0	4.76
	TEQs (WHO2005, ND=0, EMPC=0)	20	20	50	50	20	N/A	30.9	37.2	3.17	66.6	15.4	53.0	16.5	22.2	15.1	31.0	15.5	3.36
	TEQs (WHO2005, ND=DL/2, EMPC=0)	20	20	50	50	20	N/A	36.7	43.1	3.17	72.3	21.0	64.5	24.7	30.4	20.1	35.8	20.7	4.00
PCB Congeners																			
(pg/g)	***Total PCB Congeners***	2,000,000	2,000,000	3,000,000	3,000,000	2,000,000	1,000,000	4,430,000	1,410,000	306,000	########	715,000	5,870,000	738,000	893,000	1,040,000	525,000	434,000	95,300
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)	20	20	50	50	20	N/A	93.4	78.5	1.18	388	1.45	87.1	25.3	34.4	43.3	0.367	0.734	0.193
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)	20	20	50	50	20	N/A	96.9	81.7	14.7	388	14.0	90.3	28.7	37.2	46.4	14.5	14.9	16.6
TEQ Summation**																			
(pg/g)	***TEQs (ND=0; EMPC=EMPC)***	20	20	50	50	20	N/A	132	126	5.03	467	22.9	163	48.9	64.6	73.4	43.2	21.5	4.31
	TEQs (ND=DL/2; EMPC=EMPC)	20	20	50	50	20	N/A	142	136	18.6	473	41.0	178	60.5	75.6	81.4	62.2	40.9	21.4

Notes:

pg/g - picograms per gram (dry weight)or parts per trillion (ppt).

B - Compound detected in associated method blank

C - Congener has coeluters. When Cxxx, refer to congener number xxx for data.

E - Value is estimated; Concentration of the target analyte exceeds the instrument calibration range.

J - Estimated value.

K - Estimated Maximum Possible Concentration.

ND - Not detected.

Q - Quantitative interference.

U - Compound was not detected at specified quantitation limit.

PCBs - Polychlorinated Biphenyls.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

** - Sum of Dioxin-like PCB Congeners TEQ and Dioxins TEQ.

TABLE 3
Summary of Analytical Results for Dioxin Investigative Soil Samples -- June 2011
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte							SB-111-7		SB-118-1A		SB-118-3		SB-194	
							Sample ID:								
							Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-2
							Sample Date:	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/08/2011	06/08/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA								
Dioxins															
(pg/g)	TEQs (WHO2005, ND=0, EMPC=EMPC)	20	20	50	50	20	N/A	28.3	27.0	15.3	40.8	14.6	5.56	43.0	57.5
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)	20	20	50	50	20	N/A	34.1	35.6	35.0	50.6	15.1	6.11	49.7	62.5
	TEQs (WHO2005, ND=0, EMPC=0)	20	20	50	50	20	N/A	21.9	21.5	12.9	40.8	14.6	4.67	27.1	47.0
	TEQs (WHO2005, ND=DL/2, EMPC=0)	20	20	50	50	20	N/A	27.7	30.1	32.6	50.6	15.1	5.22	33.8	52.0
PCB Congeners															
(pg/g)	***Total PCB Congeners***	2,000,000	2,000,000	3,000,000	3,000,000	2,000,000	1,000,000	860,000	564,000	960,000	5,190,000	761,000	159,000	1,600,000	538,000
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)	20	20	50	50	20	N/A	40.2	1.34	2.81	74.0	1.98	0.376	30.3	28.5
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)	20	20	50	50	20	N/A	43.7	16.1	16.8	74.0	16.8	14.1	33.7	31.1
TEQ Summation**															
(pg/g)	***TEQs (ND=0; EMPC=EMPC)***	20	20	50	50	20	N/A	68.5	28.3	18.1	115	16.6	5.93	73.3	86.0
	TEQs (ND=DL/2; EMPC=EMPC)	20	20	50	50	20	N/A	77.8	51.7	51.9	125	32.0	20.2	83.4	93.6

Notes:

pg/g - picograms per gram (dry weight)or parts per trillion (ppt).

B - Compound detected in associated method blank

C - Congener has coeluters. When Cxxx, refer to congener number xxx for data.

E - Value is estimated; Concentration of the target analyte exceeds the instrument calibration range.

J - Estimated value.

K - Estimated Maximum Possible Concentration.

ND - Not detected.

Q - Quantitative interference.

U - Compound was not detected at specified quantitation limit.

PCBs - Polychlorinated Biphenyls.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

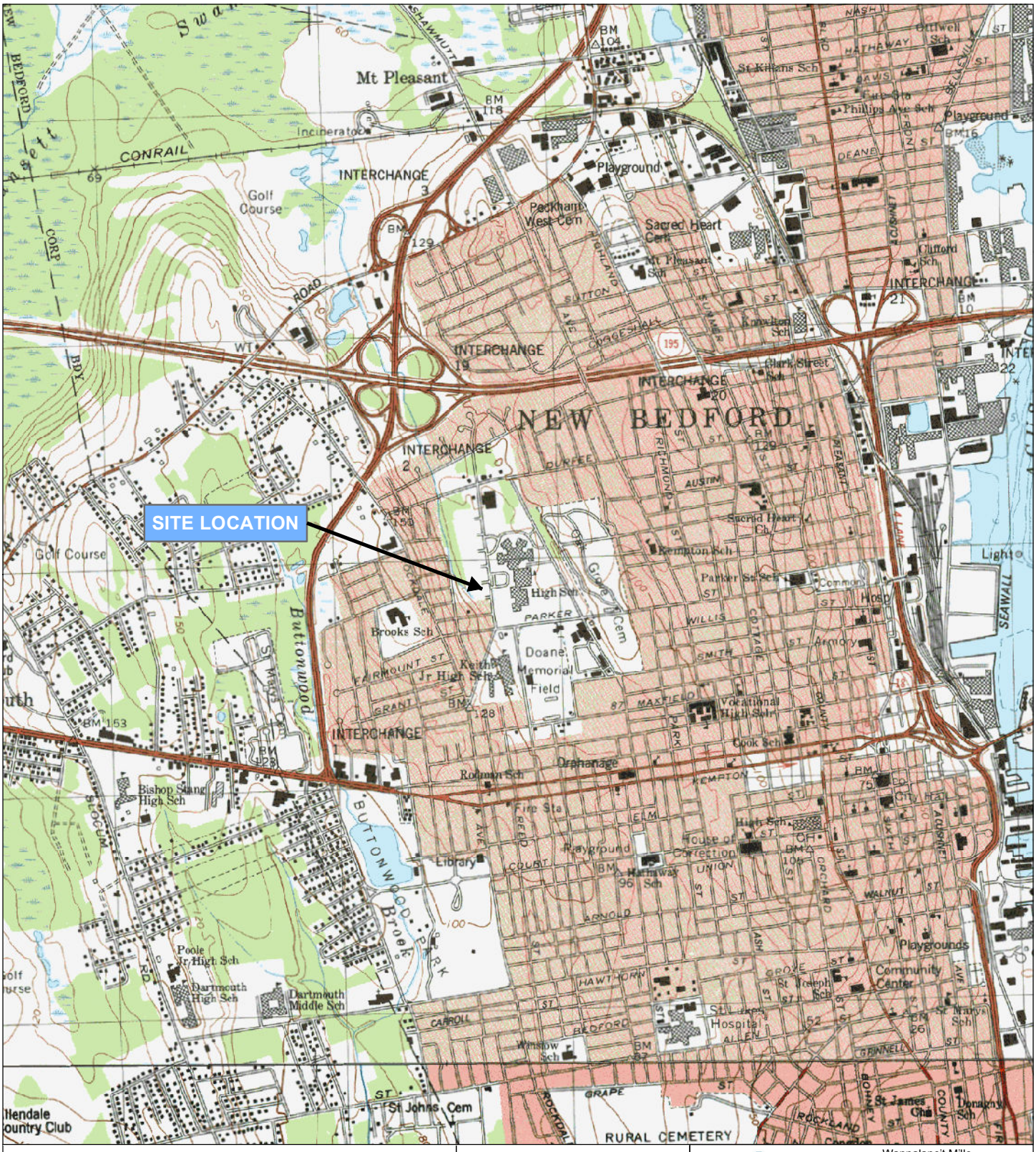
RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

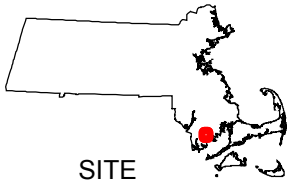
** - Sum of Dioxin-like PCB Congeners TEQ and Dioxins TEQ.

FIGURES



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

LEGEND:

- SITE OF DEMOLISHED BUILDING
- 95 MAJOR CONTOUR
- 94 MINOR CONTOUR
- FENCE
- SITE BOUNDARY
- TEST PIT
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- BETA SOIL BORING LOCATION
- PREVIOUS TRC SOIL BORING LOCATION
- PREVIOUS EPA SOIL BORING LOCATION

APPROXIMATE GRAPHIC SCALE
0' 10' 20' 40'

ENVIRONMENTAL INVESTIGATION AND RELATED
ENVIRONMENTAL CONSULTING SERVICES
NEW BEDFORD HIGH SCHOOL & SURROUNDING NEIGHBORHOOD
NEW BEDFORD, MASSACHUSETTS

ACQUIRED RESIDENTIAL PROPERTIES
SAMPLE LOCATION PLAN

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

FIGURE 2

DRAWN BY: HWB
CHECKED BY: DNP
DATE: AUG 2012

FILE: T:\E_CAD\150581\ACQ RES PROP SAMP LOCS - FIG 2-2A.dwg

APPENDIX A

EPA CORRESPONDENCE

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCsolutions.com

August 15, 2012

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, Massachusetts 02109-3912

RE: Request for Concurrence on Regulatory Opinion
Remediation of Polychlorinated Biphenyl (PCB) Impacted Soils
Subset of the Acquired Residential Properties
101 and 102 Greenwood Street and 118 Ruggles Street
New Bedford, Massachusetts

Dear Ms. Tisa:

This purpose of this letter is to seek concurrence on a regulatory opinion from the United States Environmental Protection Agency (EPA) for the regulatory classification of polychlorinated biphenyl (PCB) impacted soil targeted for potential remedial actions by the City of New Bedford (City) at the three above-referenced properties (Subject Properties). The remedial actions are proposed to be conducted as part of the performance of a Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) Release Abatement Measure (RAM), or other MCP-compliant response action, to address soil impacts. Consistent with certain past soil remedies performed by the City with joint MCP/Toxic Substances Control Act (TSCA) jurisdiction, the intent of the remediation activity would be to conduct the work per both 40 CFR Part 761 and the MCP, subject to EPA concurrence for the TSCA components.

The remedial actions are currently in the planning stages and will be overseen by the City's Licensed Site Professional (LSP) and the Massachusetts Department of Environmental Protection (MassDEP). EPA's concurrence on the approach set forth herein will allow the City to efficiently integrate the planning for soil remediation under joint MassDEP/EPA jurisdiction.

Background

The City's understanding of the nature and extent of soil contamination on these properties is based on technical reports prepared by The BETA Group, Incorporated

(BETA) and work performed by TRC Environmental Corporation (TRC) as cited below, specifically:

- *Summary of Analytical Data Volumes I and II, Properties Located on: Greenwood Streets, Ruggles Street, Durfee Street, New Bedford, Massachusetts.* Prepared by BETA Group, Inc., March 15, 2006.
- *Summary of Analytical Data 102 Greenwood Street, New Bedford, Massachusetts.* Prepared by BETA Group, Inc., September 14, 2006.
- *Data Summary Report, 102 Greenwood Street, New Bedford, Massachusetts.* Prepared by TRC Environmental Corporation, July 2008.
- *Memorandum. Residential Foundation Sampling Results, Acquired Residential Properties, New Bedford, Massachusetts.* Prepared by TRC Environmental Corporation, May 18, 2010.
- *Phase II Comprehensive Site Assessment, Acquired Residential Properties and Nemasket Street Lots Portion of the Parker Street Waste Site, New Bedford, Massachusetts.* Prepared by TRC Environmental Corporation, January 2012.

Technical Approach

Some of the anticipated soil remediation activities at the three Subject Properties may potentially be subject to EPA jurisdiction under the Federal PCB regulations under 40 CFR Part 761. The following information for the three Subject Properties is provided in Table 1 (see below) to facilitate EPA's evaluation of potential regulatory applicability, particularly with regard to the application of the definition of PCB Remediation Waste with respect to the soil under 40 CFR Part 761.3.

Table 1 – Information Summary for the Three Subject Properties

Location	Number of PCB soil samples	Number of soil samples >50 mg/kg	Max. PCB Conc. (mg/kg)	Depth of Max. Detected (feet)	Last Date of Parcel Ownership by City*	Date of Residence Construction	Foundation Type
118 Ruggles St.	39	1	**59.1**	2.75-4	1941**	1988	Basement
101 Greenwood St.	105	4	**976**	3-6	1949	2000	SLG
102 Greenwood St.	113	6	**8,280**	5-7	N/A	1986	SLG

Notes:
mg/kg – milligrams per kilogram
*- Before the City's recent re-acquisition of the parcels in 2008.
**- Tax title issues in 1992/1993. The parcel had been developed by others as a residence by that time.
SLG – slab on grade
N/A – Not applicable. Not in chain of title until acquisition by the City in 2008.

As noted in the above table, the three Subject Properties each have at least one detection of total PCBs (as Aroclors) in soil at a concentration greater than 50 milligrams per kilogram (mg/kg): 118 Ruggles Street at one sample location (A15); 101 Greenwood Street at four sample locations (H2, SB-101-6B, TP101-H, and TP101-I); and 102 Greenwood Street at six sample locations SB-185, SB-102-6, SB-102-8A, SB-102-8B, SB-102-8C, and SB-102-8D. The soil sample locations are illustrated on Figures 1 through 3 (attached). All other soil sample results are below the 50 mg/kg total PCB TSCA threshold. Note that all soil characterization data for these properties is contained

in the January 2012 *Phase II Comprehensive Site Assessment, Acquired Residential Properties and Nemasket Street Lots Portion of the Parker Street Waste Site, New Bedford, Massachusetts* listed above.

A thorough review of all available information (maps, aerial photographs, etc) indicates that soils located at the Subject Properties were in place by or before 1965.

The available information indicates that the soils impacted at 50 mg/kg total PCBs or above at the Subject Properties have remained in place undisturbed since before April 1978 (other than potential disturbance during the investigative and/or other response action activities conducted with EPA and/or MassDEP acknowledgment and/or oversight such as the building demolitions and exploratory test pits, or in one case by contractors working on behalf of EPA), and the properties are not believed to be impacted by unauthorized PCB uses.

As noted in Table 1, all of the residences were constructed post-1978. Two out of the three residential structures (those formerly present on the 101 and 102 Greenwood Street parcels) were of slab-on-grade construction (abbreviated as "SLG" in Table 1 and hereinafter). The former 118 Ruggles Street residence had a basement.

The SLG residences were formerly located at 101 Greenwood Street and 102 Greenwood Street. As a result, the degree of post-1978 disturbance of PCB impacted soil at these parcels due to residence construction was non-existent due to the shallow depth of foundation slab placement. The principally impacted stratum (i.e., fill), located at depth, was not disturbed during foundation construction. In addition, excavations for buried utilities at 101 and 102 Greenwood Street all originated on the western sides of the residential buildings and are not near, nor do they run through, the areas of PCB soil impacts at concentrations over 50 mg/kg as illustrated on Figures 1 through 3. Photographs illustrating utility mark-outs and infrastructure for the buried utilities at 101 and 102 Greenwood Street are provided as an attachment. Even if the buried utilities were located in the areas of impact noted herein, any trenching for water, sewer or natural gas service connections would have been limited, narrow, localized, and singular events, and therefore inconsequential for any perceived concentration dilution. However, since they are not located in the areas of impact noted herein, there has been no utility-related post-1978 disturbance of TSCA regulated PCB impacted soil at these locations.

The 118 Ruggles Street residence had a basement foundation system. However, at 118 Ruggles Street, based on a total of 39 soil samples analyzed, the total PCB concentrations in soil range from undetected to 59.1 mg/kg. The one soil result that was greater than 50 mg/kg is located in the northwest corner of the lot at a depth of 2.75 to 4 feet below grade, approximately 25 feet from the location of the foundation for the former residence. TRC understands that EPA concurs that TSCA jurisdiction at 118 Ruggles Street applies only to this northwest corner of the parcel since it is in a relatively remote location in the yard of the former residence that could not have been disturbed by residence construction.

Based on the lines of evidence presented in this letter and summarized in Table 2 (see below), a PCB Remediation Waste cut-off of 50 mg/kg is applicable to the impacted

soil/fill at these three locations (101 and 102 Greenwood Street and the northwest corner of the 118 Ruggles Street lot).

Table 2 – Summary of Regulatory Classification Opinion for Soil

Location	Pre-1978 Disposal?	Number of soil samples >50 mg/kg	Associated with unauthorized use?	Post-1978 Disturbance of PCB Deposition?	Notations
118 Ruggles St.	Yes	**1**	No	None (PCBs impact localized to NW corner)	▪ One localized detection >50 mg/kg. ▪ Remote location in former yard (approx. 25 feet from former building foundation).
101 Greenwood St.	Yes	**4**	No	None (No impacts from post-1978 utility and/or SLG foundation excavations)	▪ Shallow SLG foundation system. ▪ No disturbance of impacted fill.
102 Greenwood St.	Yes	**6**	No	None (No impacts from post-1978 utility and/or SLG foundation excavations)	▪ Shallow SLG foundation system. ▪ No disturbance of impacted fill.

Notes:
mg/kg – milligrams per kilogram
PCB – polychlorinated biphenyl
SLG – slab on grade
NW - northwest

PCB Soils Confirmatory Sampling and Excavation Approach

The following outlines the approach to the confirmatory sampling and excavation of TSCA regulated PCB soil. This approach has been designed to be consistent with the confirmatory sample collection and excavation approach utilized at the New Bedford High School (NBHS) at the HF-31 soil sample/excavation location (documented in MCP reports for NBHS). The City is proposing this approach to expedite the work and to avoid leaving open excavations in a residential area (albeit on fenced lots) while post-excavation analytical results are being processed. In addition, the City will also be able to examine the laboratory data to evaluate its validity and usability before starting the excavation work.

All records of the excavation, confirmatory sampling, waste manifests, and certificates of disposal for this remedial activity will be maintained and included in either a MCP RAM Status Report, or a MCP RAM Completion Report, as appropriate. The RAM-related MCP documents will be available for inspection at any time by a representative of the EPA at the MassDEP Office located in Lakeville, Massachusetts or on the City's website.

Representative quality control samples will also be collected during implementation of this approach. This will include field duplicate, matrix spike and matrix spike duplicate samples collected at a frequency of one per twenty samples.

All sampling equipment will be decontaminated prior to use and between each discreet sample in accordance with the self-implementing decontamination procedures set forth

under 40 CFR Part 761.79(c)(2)(i), consisting principally of a solvent swab of tools, moveable equipment, and sampling instruments that come into direct contact with potentially contaminated soil. Under the self-implementing decontamination approach, spent solvents and solvent-soaked rags from decontamination activities will be managed for disposal via incineration at an appropriately permitted facility per 40 CFR Part 761.79(g)(3), (4) or (5).

Confirmation samples will be taken in accordance with 40 CFR §761.283 to evaluate excavation limits sufficient to remove all PCB Remediation Waste soils as follows and submitted for laboratory analysis of PCBs by SW-846 Method 8082A using extraction method 3540C.

118 Ruggles Street

A total PCB concentration greater than 50 mg/kg was detected at sample location A15 at 2.75 to 4 feet deep. Based on a review of information supplied by EPA, this location was previously excavated by EPA during a removal action performed at the adjacent property at 128 Ruggles Street. The City requests all documentation and supporting laboratory data to evaluate post-removal conditions and support closure under the MCP process.

101 Greenwood Street

Total PCB concentrations greater than 50 mg/kg were detected at sample locations H2 at 3-6 feet, at sample location SB-101-6B at 1-3 feet, at sample location TP101-H at 3-6 feet, and at sample location TP101-I at 5-7 feet. At sample location H2, PCBs were detected at a concentration of 3.7 mg/kg at 6-8.5 feet. A sample was not taken below 3 feet at sample location SB-101-6B. At sample location TP101-H, PCBs were detected at a concentration of 1.3 mg/kg at 6.5-7 feet. At sample location TP101-I, PCBs were undetected in native material at 9 feet.

At test pits TP101-A, TP101-B, TP101-C, TP101-D, TP101-E, and TP101-F, the test pit logs indicate the potential presence of potential PCB containing materials. Confirmatory grab samples will therefore be taken from the test pit sidewalls.

At test pit TP101-J, sampling results did not indicate the detection of total PCBs at a concentration warranting excavation.

Pre-excavation confirmatory “grab” samples will be taken from the sidewalls of the excavation of sample location H2 at a frequency of one sample per 1.5 meters of sidewall, as identified on Figure 2. Additional pre-excavation confirmatory samples will be collected based on a 1.5 x 1.5 meter grid if any confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs.

A pre-excavation confirmatory grab sample will be taken at sample location SB-101-6B at a depth of 4 feet, and at additional intervals if the confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs.

At sample location SB-101-6B, the excavation will over excavated 6 inches below acceptable confirmatory results. Lateral limits will be determined to be where sidewall confirmatory sampling results are less than 50 mg/kg. Where field conditions allow, sidewalls will be over-excavated 6 inches beyond the aforementioned limits as a conservative measure.

At each excavation location on the 101 Greenwood Street parcel (i.e., sample location H2 and the adjacent test pit TP101-A, and test pits TP101-B, TP101-C, TP101-D, TP101-E, TP101-F, TP101-H, and TP101-I), the excavations depth will be to 6 inches into native material at an approximate depth of 9 feet. Lateral limits will be determined to be where sidewall confirmatory sampling results are less than 50 mg/kg. Where field conditions allow, sidewalls will be over-excavated 6 inches beyond the aforementioned limits as a conservative measure.

Additional samples will be taken at sample locations SB-101-4D and SB-101-6A in light of previous sample results approaching 50 mg/kg total PCBs (49.2 mg/kg and 42.4 mg/kg, respectively). At each of the locations, three borings will be placed surrounding the locations indicated on Figure 2. Samples will be taken at 3-5 feet, 5-7 feet, and 7-9 feet and analyzed for total PCBs. If any of these samples indicate a concentration greater than or equal to 50 mg/kg total PCBs, the locations will be excavated. If this scenario occurs, confirmatory grab samples will be taken from the sidewalls at a frequency of one sample per 1.5 meters of sidewall. Additional pre-excavation confirmatory samples would be collected if any confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs. Lateral limits will be determined to be where sidewall confirmatory sampling results are less than 50 mg/kg. Where field conditions allow, sidewalls will be over-excavated 6 inches beyond the aforementioned limits as a conservative measure.

102 Greenwood Street

Total PCB concentrations greater than 50 mg/kg were detected at sample locations SB-185, SB-102-6, SB-102-8A, SB-102-8B, SB-102-8C, and SB-102-8D. Native material was observed at a depth of approximately 7.5 feet at each location, and PCB concentrations range from undetected to 0.32 mg/kg in the native material.

At test pit TP102-C, the test pit log indicated the potential presence of PCB containing materials; however, no soil samples from this test pit were analyzed for PCBs. Confirmatory “grab” samples will therefore be taken from the test pit sidewalls.

Pre-excavation confirmatory “grab” samples will be taken from the sidewalls at a frequency of one sample per 1.5 meters of sidewall, as identified on Figure 1. Additional pre-excavation confirmatory samples based on a 1.5 x 1.5 meter grid will be collected if any confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs.

A confirmatory grab sample will be taken at sample location SB-102-6 at 4 feet deep, and at additional intervals if the confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs.

At sample location SB-102-6, the excavation will over excavated 6 inches deeper than acceptable confirmatory results. Lateral limits will be determined to be where sidewall confirmatory sampling results are less than 50 mg/kg. Where field conditions allow, sidewalls will be over-excavated 6 inches beyond the aforementioned limits as a conservative measure.

At sample locations SB-185, SB-102-8A, SB-102-8B, SB-102-8C, SB-102-8D, and at test pit TP102-C, the excavation depth will be 8.5 feet (over excavating 6 inches deeper than prior acceptable sampling results in the 8-10 foot interval). Lateral limits will be determined to be where sidewall confirmatory sampling results are less than 50 mg/kg. Where field conditions allow, sidewalls will be over-excavated 6 inches beyond the aforementioned limits as a conservative measure.

We look forward to discussing this letter at your earliest convenience. If you have any questions, please call me at 978-656-3565.

Sincerely,

TRC Environmental Corporation

David M. Sullivan, LSP
Sr. Project Manager

cc: Michele S.W. Paul, Cheryl Henlin; City of New Bedford
Molly Cote; Massachusetts Department of Environmental Protection (by electronic PDF)

GREENWOOD STREET

HATHAWAY BOULEVARD

CLF

SB-102-9 12/16/10 Constituent	0.00 – 1.00	Field Dup 0.00 – 1.00	1.00 – 3.00
Total PCBs	0.058 U	0.178 J	0.246 J

SB-102-9

SB-196

TP102-C

SB-102-8A

SB-185

SB-102-8A 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 6.00	7.00 – 9.00
Total PCBs	0.3622 J	3.14 J	529 J	0.0869 J

SB-102-8D / MW-36

SB-102-8B

SB-102-7

SB-102-8D 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 7.00	8.00 – 10.00
Total PCBs	0.0931 J	3.562 J	8280 J	0.52 U

SB-187

SB-102-8C

SB-187 06/09/08 Constituent	4.00 – 4.00	6.00 – 6.00
Total PCBs	0.2699 J	5.88 J

SB-102-12

SB-186

SB-102-6

SB-185 06/09/08 Constituent	2.00 – 2.00	4.00 – 4.00	6.00 – 6.00
Total PCBs	68.3 J	45.7 J	10.7 J

SB-195

SB-102-8B 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 6.00	7.00 – 9.00
Total PCBs	6.22 J	83.3 J	37.4 J	0.0561 U

SB-102-12 12/15/10 Constituent	0.50 – 1.50	3.00 – 5.00	7.00 – 9.00
Total PCBs	0.657 J	0.984 J	0.0571 U

SB-102-8C 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 7.00	8.00 – 10.00
Total PCBs	0.578 J	32.8 J	80.3 J	0.32 J

SB-186 06/09/08 Constituent	2.00 – 2.00	3.40 – 3.40
Total PCBs	1.2 J	1.011 J

SB-102-6 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	1.583 J	243 J

SB-102-7 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	Field Dup 1.00 – 3.00
Total PCBs	34 J	1.77 J	5.63 J

SB-195 06/10/08 Constituent	1.00 – 1.00	7.50 – 7.50	9.00 – 9.00	11.00 – 11.00
Total PCBs	2.45 J	4.34 J	0.141 J	0.0515 U

LEGEND:

- SOIL SAMPLE LOCATION
- EXISTING MONITORING WELL
- EXISTING FENCE
- PROPERTY LINE
- TSCA SAMPLING GRID
- TEST PIT LOCATION

SAMPLE LOCATION / SAMPLE DATE

H1 12/19/05 Constituent	1.00 – 3.00
Total PCBs	0.207 U

SAMPLE DEPTH INTERVAL IN FEET

NOTE:
J – ESTIMATED VALUE.
U – COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ – ESTIMATED NON-DETECT.

APPROXIMATE GRAPHIC SCALE

0' 5' 10' 20'

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MASSACHUSETTS

SOIL SAMPLE TOTAL PCBS RESULTS
102 GREENWOOD STREET

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

DRAWN BY: PZ
CHECKED BY: DMS
DATE: JULY 2012

FIGURE 1

FILE: Q:\GEOSC\GISKEY\Projects\NewBedford\Total PCBs_101-102 GW-118 Ruggles.dwg

SB-101-6A 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	1.89 J	42.4 J

SB-101-7C 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	0.282 J	4.452 J

SB-101-6B 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	19.7 J	53.2 J

SB-101-6C 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00	Field Dup 1.00 – 3.00
Total PCBs	7.018 J	26.1 J	25 J

TP-101J 12/08/10 Constituent	3.00 – 5.00	5.00 – 7.00	8.00 – 8.00
Total PCBs	1.2 J	3.1 J	0.73 J

TP-101I Constituent	12/07/10 0.00 – 1.00	12/07/10 1.00 – 3.00	12/07/10 3.00 – 5.00	12/07/10 5.00 – 7.00	12/07/10 5.00 – 5.00	12/07/10 6.00 – 6.00	12/08/10 7.00 – 9.00	12/08/10 9.00 – 9.00
Total PCBs	11	14	25	100	110	180	44	0.33 U

SB-101-5A 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 9.00	10.00 – 12.00
Total PCBs	5.461 J	30.01 J	3.443 J	0.058 U

SB-101-5D 12/13/10 Constituent	2.00 – 3.50	4.00 – 6.00	8.00 – 10.00
Total PCBs	0.275 J	10.7 J	0.0525 U

G2 12/19/05 Constituent	0.50 – 3.00	0.00 – 1.00	3.00 – 6.00	6.00 – 9.00
Total PCBs	10.40	0.226	23.30	1.37 U

SB-101-5B 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 6.00	9.00 – 11.00
Total PCBs	15.87 J	6.92 J	0.679 J	0.194 UJ

SB-101-4A_5C 12/14/10 Constituent	0.00 – 1.00	Field Dup 0.00 – 1.00	1.00 – 3.00	10.50 – 12.00
Total PCBs	2.15 J	2.619 J	10.47 J	0.0539 U

SB-101-4D 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 8.00	10.00 – 12.00
Total PCBs	1.405 J	8.12 J	49.24 J	0.238 UJ

H2 12/19/05 Constituent	0.50 – 3.00	3.00 – 6.00	6.00 – 8.50	Field Dup 6.00 – 8.50
Total PCBs	1.778	976	1.870	3.70

SB-101-4C 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	4.00 – 9.00	10.00 – 12.00
Total PCBs	5.28 J	4.67 J	26.9 J	0.257 UJ

SB-101-4B 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	4.00 – 7.00	9.00 – 11.00
Total PCBs	3.486 J	3.29 J	6.947 J	0.0408 J

H1 12/19/05 Constituent	1.00 – 3.00
Total PCBs	0.207 U

TP-101H Constituent	12/06/10 0.00 – 1.00	12/06/10 1.00 – 3.00	12/06/10 3.00 – 3.00	12/06/10 3.00 – 5.00	12/06/10 5.00 – 6.00	Field Dup 12/06/10 5.00 – 6.00	12/07/10 6.50 – 7.00	12/07/10 6.00 – 7.00	12/07/10 7.00 – 9.00	12/07/10 9.00 – 9.00
Total PCBs	17	4.3	0.37	270	230	69	1.3	18	22	0.33 U

SB-101-7C
SB-101-6A
SB-101-6B
SB-101-6C
TP101F
TP101-J
TP101C
TP101G
TP101-I
SB-101-5A
TP101E
SB-101-5B
SB-101-5D
G2
G1
TP101B
TP101-H
SB-101-4A/5C
TP101D
SB-101-4B
H2
SB-101-4D
H1
SB-101-4C
TP101A

BOULEVARD

HATHAWAY

GREENWOOD STREET

LEGEND:

- SOIL SAMPLE LOCATION
- PROPOSED INVESTIGATIVE SAMPLE LOCATION
- EXISTING FENCE
- PROPERTY LINE
- TSCA SAMPLING GRID
- TEST PIT LOCATION

SAMPLE LOCATION
SAMPLE DATE

H1 12/19/05 Constituent	1.00 – 3.00
Total PCBs	0.207 U

SAMPLE DEPTH INTERVAL IN FEET

NOTE:
J – ESTIMATED VALUE.
U – COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ – ESTIMATED NON-DETECT.

APPROXIMATE GRAPHIC SCALE

0' 5' 10' 20'

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MASSACHUSETTS

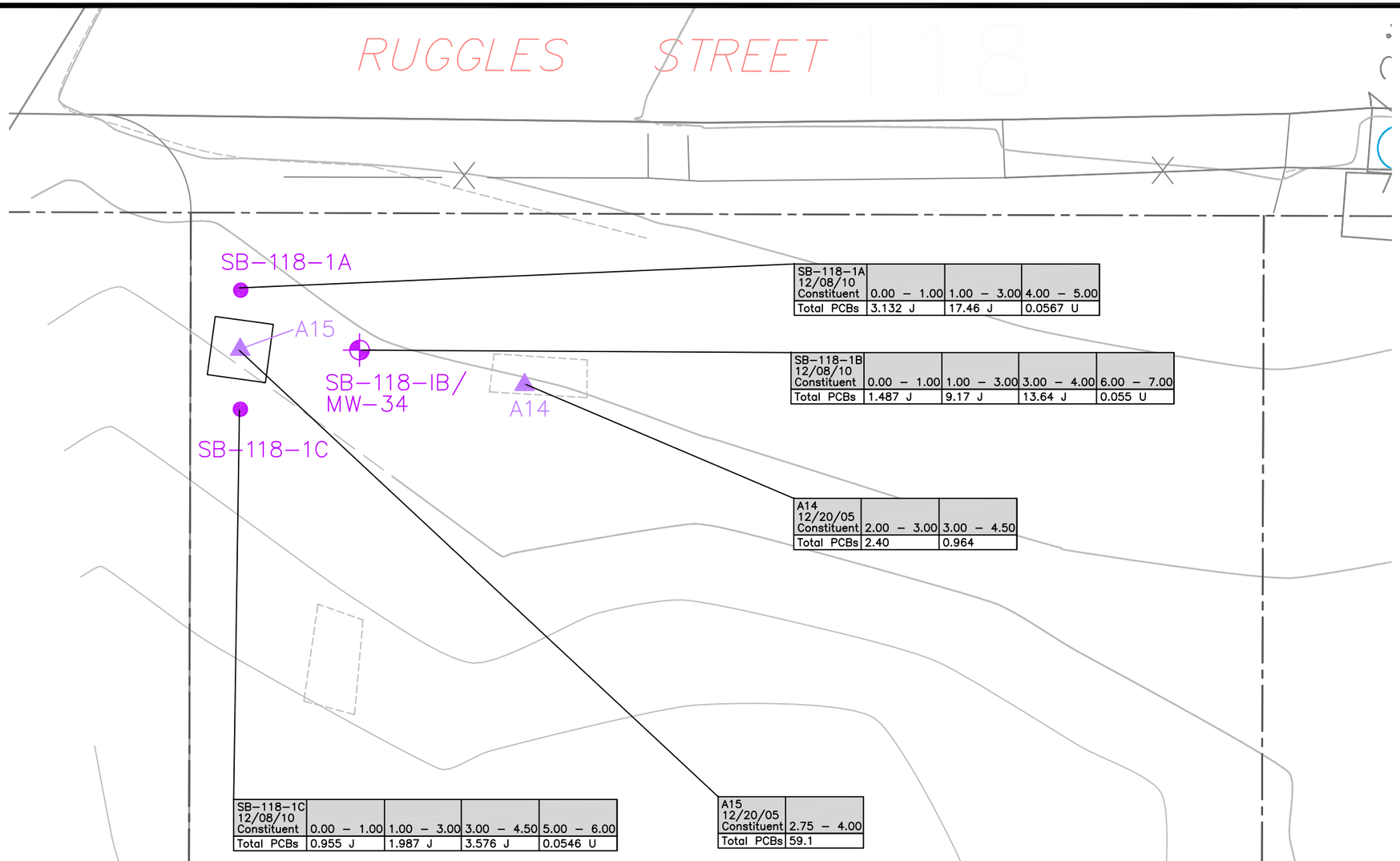
SOIL SAMPLE TOTAL PCBS RESULTS
101 GREENWOOD STREET

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

DRAWN BY: PZ
CHECKED BY: DMS
DATE: JULY 2012

FIGURE 2

FILE: Q:\GEOSCI\GISKEY\Projects\NewBedford\Total PCBs_101-102 GW-118 Ruggles.dwg



SB-118-1A 12/08/10 Constituent	0.00 – 1.00	1.00 – 3.00	4.00 – 5.00
Total PCBs	3.132 J	17.46 J	0.0567 U

SB-118-1B 12/08/10 Constituent	0.00 – 1.00	1.00 – 3.00	3.00 – 4.00	6.00 – 7.00
Total PCBs	1.487 J	9.17 J	13.64 J	0.055 U

A14 12/20/05 Constituent	2.00 – 3.00	3.00 – 4.50
Total PCBs	2.40	0.964

SB-118-1C 12/08/10 Constituent	0.00 – 1.00	1.00 – 3.00	3.00 – 4.50	5.00 – 6.00
Total PCBs	0.955 J	1.987 J	3.576 J	0.0546 U

A15 12/20/05 Constituent	2.75 – 4.00
Total PCBs	59.1

LEGEND:

- SOIL SAMPLE LOCATION
- EXISTING MONITORING WELL
- EXISTING FENCE
- PROPERTY LINE
- TSCA SAMPLING GRID
- TEST PIT LOCATION

SAMPLE LOCATION	H1	
SAMPLE DATE	12/19/05	
Constituent	1.00 – 3.00	SAMPLE DEPTN INTERVAL IN FEET
Total PCBs	0.207 U	

NOTE:
J – ESTIMATED VALUE.
U – COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ – ESTIMATED NON-DETECT.

APPROXIMATE GRAPHIC SCALE

0' 5' 10' 20'

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MASSACHUSETTS

SOIL SAMPLE TOTAL PCBS RESULTS
118 RUGGLES STREET

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

DRAWN BY: PZ
CHECKED BY: DMS
DATE: JULY 2012

FIGURE 3

FILE: Q:\GEOSC\GISKEY\Projects\NewBedford\Total PCBs_101-102 GW-118 Ruggles.dwg

Subsurface Utility Location Photos
101 and 102 Greenwood Street
New Bedford, Massachusetts

Photo 1 – Subsurface utility locations on south side of property (101 Greenwood Street)

Photo 2 – Location of gas line on west side of property (101 Greenwood Street)

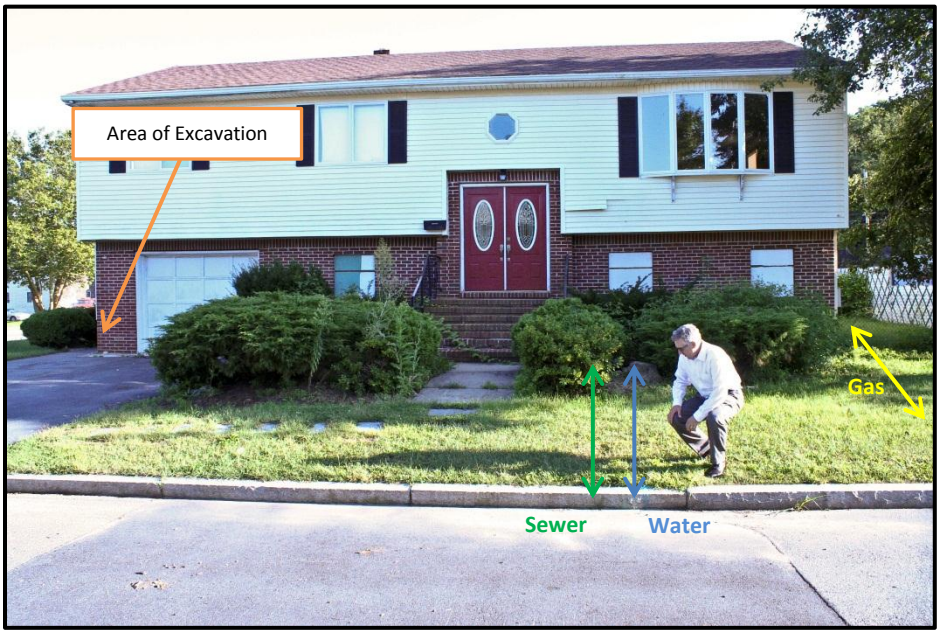


Photo 3 – Subsurface utility locations (102 Greenwood Street)

Photo 4 – Location of gas line on west side of property (102 Greenwood Street)

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854

Main 978.970.5600
Fax 978.453.1995

Memorandum

To: Kimberly Tisa, PCB Coordinator

From: David M. Sullivan, LSP

CC: Michele Paul, LSP, Cheryl Henlin

Subject: **Request for Additional Information concerning *Request for Regulatory Opinion, Remediation of Polychlorinated Biphenyl (PCB) Impacted Soils*** Subset of Acquired Residential Properties 101 and 102 Greenwood Street and 118 Ruggles Street New Bedford, Massachusetts

Date: November 2, 2012

TRC Environmental Corporation (TRC) has prepared this memorandum to provide the supplemental information requested by the United States Environmental Protection Agency (EPA) concerning the TRC letter, *Request for Concurrence on Regulatory Opinion Remediation of Polychlorinated Biphenyl (PCB) Impacted Soils*, dated August 15, 2012.

1. **The proposed vertical delineation sampling at sample location SB-101-6B may be inadequate given the depth of PCBs >50 ppm at adjacent locations** – In addition to the vertical pre-delineation sample proposed at 4 feet, we will add vertical delineation samples to be taken at 5–7 feet, and 7-9 feet to ensure that PCB concentrations >50 ppm will be addressed during remediation.
2. **It is unclear what is happening with test pit TP-101G –** Our plan calls for test pit TP-101G to be addressed during the excavation at TP-101C, and TP-101F. It was inadvertently not included in our text, but is illustrated in Figure 2.
3. **At sample locations SB-101-4D and SB-101-6A, additional sampling should be performed to ensure sampling did not result in PCB dilution –** As discussed in the TRC letter at page 6, samples will be taken at sample locations SB-101-4D and SB-101-6A in light of previous sample results approaching 50 mg/kg total PCBs (49.2 mg/kg and 42.4 mg/kg, respectively). At each of the locations three borings will be placed surrounding the locations indicated on Figure 2. Samples will be taken at 3-5 feet, 5-7 feet, and 7-9 feet and analyzed for total PCBs. If any of these samples indicate a concentration greater than or equal to 50 mg/kg total PCBs, the locations will be excavated. If this scenario occurs, confirmatory grab samples will be taken from the sidewalls at a frequency of one sample per 1.5 meters of sidewall. Additional pre-

excavation confirmatory samples would be collected if any confirmatory sample results indicate a concentration greater than or equal to 50 mg/kg total PCBs. Lateral limits will be determined to be where sidewall confirmatory sampling results are less than 50 mg/kg. Where field conditions allow, sidewalls will be over-excavated 6 inches beyond the aforementioned limits as a conservative measure.

4. **Please provide a table showing the proposed number of pre-excavation samples –** The proposed number of pre-excavation samples are as follows:

Excavation Location	Number of pre-excavation samples[1]
101 Greenwood Street	
H2, TP101A	12
TP101-H, TP101-I, TP-101B, TP-101D, TP-101E	36
TP101-C, TP101-F, TP101-G	19
SB-101-6B	6[2]
SB-101-6A[3]	9
SB-101-4D[3]	9
102 Greenwood Street	
SB-102-6	5
SB-185, SB-102-8A, SB-102-8B, SB-102-8C, SB-102-8D, TP102-C	24

Notes:

1. Number of pre-excavation samples based on sample results <50 ppm PCBs in first sampling event.
2. Number of samples includes sidewall samples, and vertical delineation samples at 4', 5-7', and 7-9'.
3. Samples at SB-101-6A (49.2 ppm PCBs) and SB-101-4D (42.4 ppm PCBs) include three locations surrounding the original sample location taken at three depths (3-5', 5-7', and 7-9').

5. **Please add the location of house foundations to the figures –** The location of the house foundations have been added to Figures 1, 2, and 3.
6. **With respect to 118 Ruggles Street, did you obtain the information from the EPA Removal Group, who performed the soil excavation at 128 Ruggles Street, to support that this location has been excavated? –** The information was supplied by Marcus Holmes, EPA On-Scene Coordinator, which indicates that the removal action performed by EPA at 128 Ruggles Street included sample location A15 on the 118 Ruggles Street property. Please see attached the two figures provided by EPA (128 Ruggles Street (P-020) Removal Grid Location Map, and Satellite View of Excavation), and the TRC Excavation Plan showing the 118 Ruggles Street area.
7. **On the August 15, 2012 submittal, Figure 1 does not include data for sample location SB-196 –** The PCB data for sample location SB-196 has been added to Figure 1.

GREENWOOD STREET

CLF

BOULEVARD

HATHAWAY

SITE OF DEMOLISHED HOUSE

SB-102-9

SB-102-9 12/16/10 Constituent	0.00 – 1.00	Field Dup 0.00 – 1.00	1.00 – 3.00
Total PCBs	0.058 U	0.178 J	0.246 J

SB-196

SB-196 06/10/08 Constituent	1.00 – 1.00	3.50 – 3.50	8.00 – 8.00
Total PCBs	0.284 J	0.191 J	0.204 J

TP102-C

SB-102-8A

SB-185

SB-102-8D / MW-36

SB-102-8B

SB-102-8A 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 6.00	7.00 – 9.00
Total PCBs	0.3622 J	3.14 J	529 J	0.0869 J

SB-102-8D 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 7.00	8.00 – 10.00
Total PCBs	0.0931 J	3.562 J	8280 J	0.52 U

SB-102-7

SB-187

SB-102-8C

SB-187 06/09/08 Constituent	4.00 – 4.00	6.00 – 6.00
Total PCBs	0.2699 J	5.88 J

SB-102-12

SB-186

SB-102-6

SB-185 06/09/08 Constituent	2.00 – 2.00	4.00 – 4.00	6.00 – 6.00
Total PCBs	68.3 J	45.7 J	10.7 J

SB-102-8B 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 6.00	7.00 – 9.00
Total PCBs	6.22 J	83.3 J	37.4 J	0.0561 U

SB-195

SB-102-12 12/15/10 Constituent	0.50 – 1.50	3.00 – 5.00	7.00 – 9.00
Total PCBs	0.657 J	0.984 J	0.0571 U

SB-102-8C 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 7.00	8.00 – 10.00
Total PCBs	0.578 J	32.8 J	80.3 J	0.32 J

SB-186 06/09/08 Constituent	2.00 – 2.00	3.40 – 3.40
Total PCBs	1.2 J	1.011 J

SB-102-6 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	1.583 J	243 J

SB-102-7 12/16/10 Constituent	0.00 – 1.00	1.00 – 3.00	Field Dup 1.00 – 3.00
Total PCBs	34 J	1.77 J	5.63 J

SB-195 06/10/08 Constituent	1.00 – 1.00	7.50 – 7.50	9.00 – 9.00	11.00 – 11.00
Total PCBs	2.45 J	4.34 J	0.141 J	0.0515 U

LEGEND:

- SOIL SAMPLE LOCATION
- EXISTING MONITORING WELL
- EXISTING FENCE
- PROPERTY LINE
- TSCA SAMPLING GRID
- TEST PIT LOCATION
- SITE OF DEMOLISHED HOUSE

SAMPLE LOCATION: H1
SAMPLE DATE: 12/19/05

Constituent	1.00 – 3.00
Total PCBs	0.207 U

SAMPLE DEPTN INTERVAL IN FEET

NOTE:
J – ESTIMATED VALUE.
U – COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ – ESTIMATED NON-DETECT.

APPROXIMATE GRAPHIC SCALE

0' 5' 10' 20'

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MASSACHUSETTS

SOIL SAMPLE TOTAL PCBS RESULTS
102 GREENWOOD STREET

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

FIGURE 1

DRAWN BY: PZ
CHECKED BY: DMS
DATE: JULY 2012

FILE: Q:\GEOSCI\GISKEY\Projects\NewBedford\Total PCBs_101-102 GW-118 Ruggles.dwg

SB-101-6A 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	1.89 J	42.4 J

SB-101-7C 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	0.282 J	4.452 J

SB-101-6B 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00
Total PCBs	19.7 J	53.2 J

SB-101-6C 12/13/10 Constituent	0.00 – 1.00	1.00 – 3.00	Field Dup 1.00 – 3.00
Total PCBs	7.018 J	26.1 J	25 J

TP-101J 12/08/10 Constituent	3.00 – 5.00	5.00 – 7.00	8.00 – 8.00
Total PCBs	1.2 J	3.1 J	0.73 J

TP-101I Constituent	12/07/10 0.00 – 1.00	12/07/10 1.00 – 3.00	12/07/10 3.00 – 5.00	12/07/10 5.00 – 7.00	12/07/10 5.00 – 5.00	12/07/10 6.00 – 6.00	12/08/10 7.00 – 9.00	12/08/10 9.00 – 9.00
Total PCBs	11	14	25	100	110	180	44	0.33 U

SB-101-5A 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 9.00	10.00 – 12.00
Total PCBs	5.461 J	30.01 J	3.443 J	0.058 U

SB-101-5D 12/13/10 Constituent	2.00 – 3.50	4.00 – 6.00	8.00 – 10.00
Total PCBs	0.275 J	10.7 J	0.0525 U

G2 12/19/05 Constituent	0.50 – 3.00	0.00 – 1.00	3.00 – 6.00	6.00 – 9.00
Total PCBs	10.40	0.226	23.30	1.37 U

SB-101-5B 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 6.00	9.00 – 11.00
Total PCBs	15.87 J	6.92 J	0.679 J	0.194 UJ

SB-101-4A_5C 12/14/10 Constituent	0.00 – 1.00	Field Dup 0.00 – 1.00	1.00 – 3.00	10.50 – 12.00
Total PCBs	2.15 J	2.619 J	10.47 J	0.0539 U

SB-101-4D 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	5.00 – 8.00	10.00 – 12.00
Total PCBs	1.405 J	8.12 J	49.24 J	0.238 UJ

H2 12/19/05 Constituent	0.50 – 3.00	3.00 – 6.00	6.00 – 8.50	Field Dup 6.00 – 8.50
Total PCBs	1.778	976	1.870	3.70

SB-101-4C 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	4.00 – 9.00	10.00 – 12.00
Total PCBs	5.28 J	4.67 J	26.9 J	0.257 UJ

SB-101-4B 12/14/10 Constituent	0.00 – 1.00	1.00 – 3.00	4.00 – 7.00	9.00 – 11.00
Total PCBs	3.486 J	3.29 J	6.947 J	0.0408 J

H1 12/19/05 Constituent	1.00 – 3.00
Total PCBs	0.207 U

TP-101H Constituent	12/06/10 0.00 – 1.00	12/06/10 1.00 – 3.00	12/06/10 3.00 – 3.00	12/06/10 3.00 – 5.00	12/06/10 5.00 – 6.00	Field Dup 12/06/10 5.00 – 6.00	12/07/10 6.50 – 7.00	12/07/10 6.00 – 7.00	12/07/10 7.00 – 9.00	12/07/10 9.00 – 9.00
Total PCBs	17	4.3	0.37	270	230	69	1.3	18	22	0.33 U

SITE OF DEMOLISHED HOUSE

SB-101-7C
SB-101-6A
SB-101-6B
SB-101-6C
TP101F
TP101-J
TP101G
TP101C
TP101-I
SB-101-5A
TP101E
SB-101-5D
SB-101-5B
G2
G1
TP101B
TP101-H
SB-101-4A/5C
TP101D
SB-101-4B
H2
SB-101-4D
H1
SB-101-4C
TP101A

HATHAWAY BOULEVARD

GREENWOOD STREET

LEGEND:

- SOIL SAMPLE LOCATION
- PROPOSED INVESTIGATIVE SAMPLE LOCATION
- EXISTING FENCE
- PROPERTY LINE
- TSCA SAMPLING GRID
- TEST PIT LOCATION
- SITE OF DEMOLISHED HOUSE

SAMPLE LOCATION
SAMPLE DATE

H1 12/19/05 Constituent	1.00 – 3.00
Total PCBs	0.207 U

SAMPLE DEPTN INTERVAL IN FEET

NOTE:
J – ESTIMATED VALUE.
U – COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ – ESTIMATED NON-DETECT.

APPROXIMATE GRAPHIC SCALE

0' 5' 10' 20'

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MASSACHUSETTS

SOIL SAMPLE TOTAL PCBS RESULTS
101 GREENWOOD STREET

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

FIGURE 2

DRAWN BY: PZ
CHECKED BY: DMS
DATE: JULY 2012

FILE: Q:\GEOSCI\GISKEY\Projects\NewBedford\Total PCBs_101-102 GW-118 Ruggles.dwg

RUGGLES STREET

SB-118-1A

SB-118-1A 12/08/10 Constituent	0.00 – 1.00	1.00 – 3.00	4.00 – 5.00
Total PCBs	3.132 J	17.46 J	0.0567 U

A15

SB-118-IB/ MW-34

TP118B

A14

SB-118-1B 12/08/10 Constituent	0.00 – 1.00	1.00 – 3.00	3.00 – 4.00	6.00 – 7.00
Total PCBs	1.487 J	9.17 J	13.64 J	0.055 U

SB-118-1C

A14 12/20/05 Constituent	2.00 – 3.00	3.00 – 4.50
Total PCBs	2.40	0.964

TP118A

A15 12/20/05 Constituent	2.75 – 4.00
Total PCBs	59.1

SB-118-1C 12/08/10 Constituent	0.00 – 1.00	1.00 – 3.00	3.00 – 4.50	5.00 – 6.00
Total PCBs	0.955 J	1.987 J	3.576 J	0.0546 U

SITE OF DEMOLISHED HOUSE

LEGEND:

- SOIL SAMPLE LOCATION
- EXISTING MONITORING WELL
- EXISTING FENCE
- PROPERTY LINE
- TSCA SAMPLING GRID
- TEST PIT LOCATION
- SITE OF DEMOLISHED HOUSE

SAMPLE LOCATION
SAMPLE DATE

H1 12/19/05 Constituent	1.00 – 3.00
Total PCBs	0.207 U

SAMPLE DEPTN INTERVAL IN FEET

NOTE:
J – ESTIMATED VALUE.
U – COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ – ESTIMATED NON-DETECT.

APPROXIMATE GRAPHIC SCALE

0' 5' 10' 20'

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MASSACHUSETTS

SOIL SAMPLE TOTAL PCBS RESULTS
118 RUGGLES STREET

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

FIGURE 3

DRAWN BY: PZ
CHECKED BY: DMS
DATE: JULY 2012

FILE: Q:\GEOSCI\GISKEY\Projects\NewBedford\Total PCBs_101-102 GW-118 Ruggles.dwg

Figure 3

128 Ruggles Street (P-020)
Removal Grid Location Map

Parker Street Waste Site
New Bedford, Massachusetts

EPA Region I
Superfund Technical Assessment and Response Team (START) III
Contract No. EP-W-05-042

TDD Number:	10-10-0001
Created by:	T. Benton
Created on:	8 June 2010
Modified by:	R. Sharp
Modified on:	13 August 2012

LEGEND

- Parcel Boundary
- QX — Composite floor sample location
- Area excavated to a depth of 3-feet
- Composite side-wall sample location bordering City Right of Way
- Location of composite side-wall sample collected from interior wall

Bolded values depicted are greater than the Massachusetts Contingency Plan S-1 & GW-2 standards.

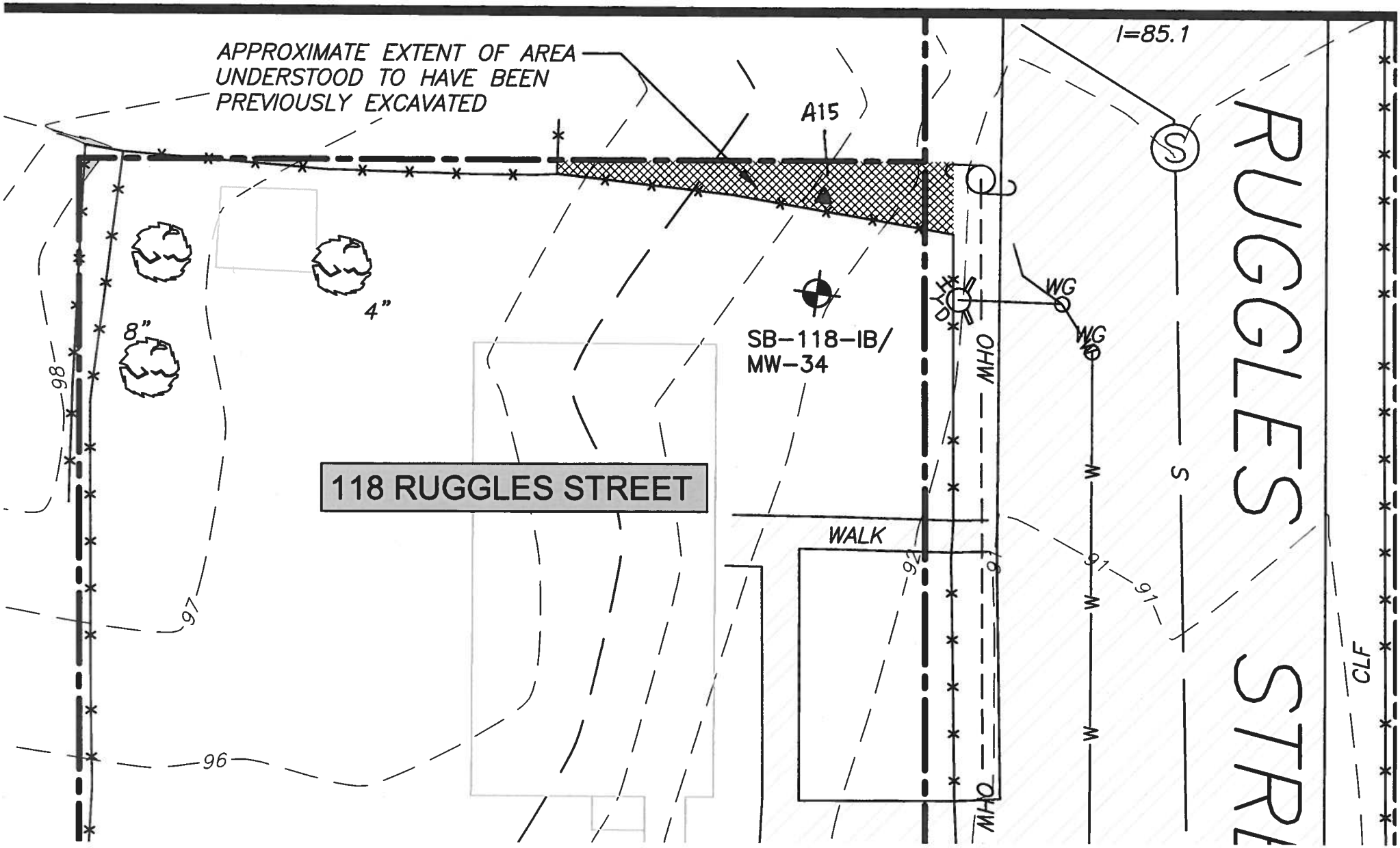
ppm: parts per million
As: Arsenic
Cd: Cadmium
Cr: Chromium
Pb: Lead
PCB: Polychlorinated Biphenyls

N

0 12.5 25 Feet

Data Sources:
Imagery: MassGIS (2008 Aerial - 24628210)
All other data: START


118 Ruggles St, New Bedford, MA
© 2012 Google
Google
Imagery Date: 4/2/2012
41°38'36.20" N 70°56'57.97" W elev 98 ft
Eye alt 406 ft


APPROXIMATE EXTENT OF AREA UNDERSTOOD TO HAVE BEEN PREVIOUSLY EXCAVATED
A15
I=85.1
RUGGLES STRE
4"
8"
SB-118-IB/
MW-34
118 RUGGLES STREET
WALK
WG
WG
MHO
MHO
CLF
98
97
96
92
91
91
91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100, BOSTON, MASSACHUSETTS 02109-3912

Certified Mail – Return Receipt Requested

DEC 1 0 2012

Michele Paul, Director
Environmental Stewardship Department
City of New Bedford
133 William Street, Room 304
New Bedford, Massachusetts 02740

Re: Acquired Residential Properties PCB Remediation
101 and 102 Greenwood Street and 118 Ruggles Street

Dear Ms. Paul:

I write in response to the letter from your consultant, TRC Environmental,[1] concerning PCB-contaminated soils located at the following properties owned by the City of New Bedford:

- 101 and 102 Greenwood Street
- 118 Ruggles Street

The TRC letter requests EPA's concurrence for the removal of PCB-impacted soil from these properties as it applies to the requirements under the PCB regulations at 40 CFR Part 761. These properties have PCB concentrations in soil at greater than or equal to (≥) 50 parts per million (ppm). In its March 29, 2011 letter pertaining to these properties, EPA determined that PCB-contaminated soil with ≥ 50 ppm on these properties met the definition of a *PCB remediation waste* as defined under § 761.3 and was regulated for cleanup under 40 CFR Part 761.

In the August 15, 2012 letter TRC indicates that the planned remedial actions to address contaminated soils at the above properties also will be conducted under a Massachusetts Contingency Plan (MCP) Release Abatement Measure, or other MCP-compliant response action. As such, the intent of the remediation activity is to meet the requirements of both 40 CFR Part 761 and the MCP.

---

[1] David Sullivan, TRC Environmental to Kimberly Tisa, EPA. *Request for Concurrence on Regulatory Opinion Remediation of Polychlorinated Biphenyl (PCB) Impacted Soils*, August 15, 2012. TRC provided additional information on the proposed remediation on November 2, 2012. These two submissions are referred to herein as the "TRC letter."

In the proposed remediation plan, PCB-contaminated soil with ≥ 50 ppm will be removed and disposed of in accordance with 40 CFR § 761.61(b). PCB-contaminated soil with less than (<) 50 ppm will be addressed under the MCP.

To delineate the ≥ 50 ppm PCB-contaminated soil from the < 50 ppm PCB-contaminated soil, TRC is proposing to conduct sampling prior to excavation. While confirmatory sampling to segregate the ≥ 50 ppm PCB-contaminated soil from the < 50 ppm PCB-contaminated soil would generally be conducted following removal of the ≥ 50 ppm PCB-contaminated soil, the City is proposing to conduct the sampling prior to excavation to avoid leaving open excavations in a residential area. As a conservative measure during soil removal, excavations will be over-excavated by 6 inches beyond the ≥ 50 ppm PCB lateral and/or vertical extent, as applicable, to insure complete removal of the ≥ 50 ppm PCB soil.

Based solely on the information provided by TRC, EPA has determined that the proposed pre-excavation sampling and removal procedure is sufficient for segregation of the ≥ 50 ppm PCB-contaminated soil at these properties and is reasonable given the location of the properties with the following conditions:

1. Samples shall be collected from the 3.0 to 5.0 foot horizon and 5.0 to 7.0 foot horizon at SB-101-4D on 101 Greenwood Street;

2. Samples shall be collected from the 3.0 to 5.0 foot horizon and 5.0 to 7.0 foot horizon at SB-101-6A on 101 Greenwood Street;

3. Analytical results of all pre-excavation sampling shall be submitted to EPA prior to the City conducting any soil removal on these properties;

4. The City shall submit any remedial plan modifications deemed necessary to comply with 40 CFR Part 761 as determined by the analytical results of the pre-excavation sampling; and,

5. In the event that during the pre-excavation sampling or during excavation, new information is discovered (e.g., electrical components such as small capacitors, stained soils, etc), the City shall contact EPA for a determination of what additional requirements, such as sampling, shall apply to the remedial project.

EPA's determination applies solely to the properties and the soil locations that were identified in the TRC letter and has no bearing on any other property located within the Parker Street Waste Site. Please be aware that this determination does not release the City from any applicable requirements of federal, state or local law, including the requirements related to cleanup and disposal of PCBs or other non-PCB contaminants under the Massachusetts Department of Environmental Protection (MassDEP) and the MCP.

Questions regarding this matter should be directly to Kim Tisa at (617) 918-1527.

Sincerely,

Mary Sanderson, Chief
Remediation & Restoration II Branch
Office of Site Remediation & Restoration

cc: D. Sullivan, TRC
M. Cote, MassDEP
File

APPENDIX B

REMEDIATION DRAWINGS AND DETAILS

30% DESIGN SUBMITTAL
ACQUIRED RESIDENTIAL PROPERTIES
RELEASE ABATEMENT MEASURE

AUGUST 2012

City of New Bedford
New Bedford, Massachusetts

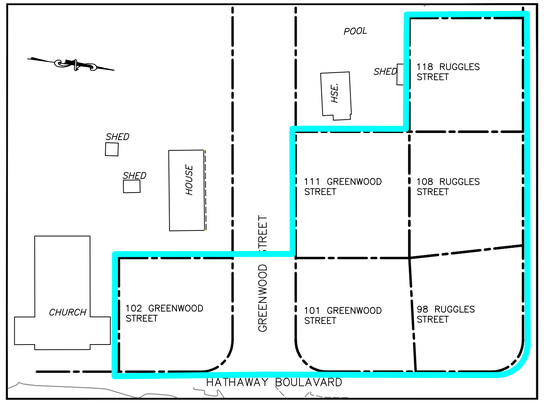
GENERAL NOTES

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION AND EXISTING SITE FEATURES WERE OBTAINED AND PREPARED BY LAND PLANNING, INC.
2. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO TRC ENVIRONMENTAL CORPORATION.
3. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND STANDARDS SET FORTH BY THE CITY OF NEW BEDFORD.
5. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE AND CLEAN CONDITION UPON COMPLETION OF THE SITE WORK.

Locus Plan

GRAPHIC SCALE
NTS

Base map is a portion of the following 7.5' USGS Topographic Quadrangle:
New Bedford North, MA, 1979



Site Plan

GRAPHIC SCALE
1" = 60'

Index of Drawings

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	SM	DNP

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MA

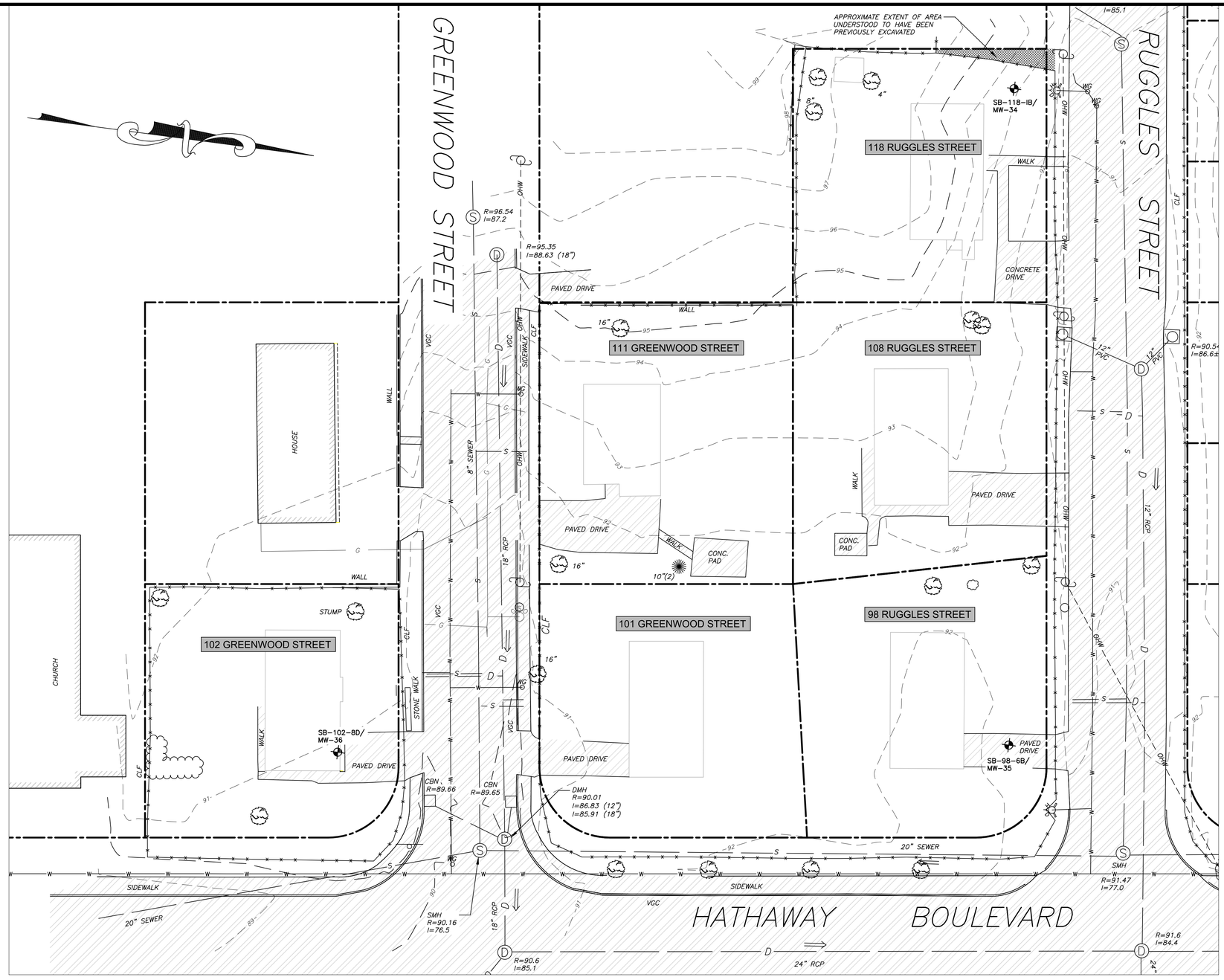
COVER SHEET

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

DRAWN BY: SM
CHECKED BY: DMS
DATE: AUG 16, 2012

FIGURE
T-100

FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\T-100 - Cover Page_01.dwg



LEGEND – EXISTING CONDITIONS

91	EXISTING CONTOUR (1')
95	EXISTING CONTOUR (5')
	EXISTING PROPERTY BOUNDARY
S	EXISTING SEWER LINE
D	EXISTING DRAIN LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
OHW	EXISTING OVERHEAD WIRE
WALL	EXISTING WALL
X	EXISTING FENCE LINE
	EXISTING EDGE OF PAVEMENT
	FORMER BUILDING FOOTPRINT
118 RUGGLES STREET	EXISTING PROPERTY ADDRESS
	EXISTING MONITORING WELL
S	EXISTING SEWER MANHOLE
D	EXISTING DRAIN MANHOLE
GS	EXISTING GAS SHUT OFF
WG	EXISTING WATER GATE
	EXISTING HYDRANT
16"	EXISTING TREE AND DIAMETER
	EXISTING UTILITY POLE
	EXISTING GUY WIRE ANCHOR
	EXISTING SIGN
CBN	CATCH BASIN
CLF	CHAIN LINK FENCE
SMH	SEWER MANHOLE
DMH	DRAIN MANHOLE
VGC	VERTICAL GRANITE CURB
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
R=	RIM ELEVATION
I=	INVERT ELEVATION

NOTES

1. EXISTING CONDITIONS WERE SURVEYED BETWEEN 2007 AND 2012 BY LAND PLANNING, INC. OF HANSON, MASSACHUSETTS.
2. THE "FIVE CONTIGUOUS PROPERTIES" ARE COMPRISED OF 101 AND 111 GREENWOOD STREET AND 98, 108, AND 118 RUGGLES STREET.
3. UTILITIES AND SYMBOLS ARE GRAPHIC REPRESENTATIONS ONLY, AND ARE NOT INTENDED TO REFLECT ACTUAL DIMENSIONS AND SCALES. CONTRACTOR IS TO FIELD VERIFY ACTUAL SIZES, LOCATIONS, AND DIMENSIONS OF UTILITIES AND SITE FEATURES. CONTRACTOR IS TO VERIFY THAT FORMER UTILITY LINES HAVE BEEN DISCONNECTED FROM THE MAIN SUPPLY LINES. DISCONTINUED CONDUIT MAY EXIST BELOW THE GROUND SURFACE.
4. FORMER HOUSE FOOTPRINTS, DRIVEWAYS, WALKWAYS, AND CONCRETE PADS, AS SHOWN MAY BE LOCATED AT OR BENEATH THE GROUND SURFACE.
5. FORMER FENCES EXTENDING ACROSS THE INTERIOR OF THE PROPERTY HAVE BEEN REMOVED BY CUTTING THE POSTS AT GROUND LEVEL. FORMER FENCE POST FOOTINGS MAY EXIST AT OR BENEATH THE GROUND SURFACE.
6. STUMPS FROM FORMER TREES THAT HAVE BEEN REMOVED MAY EXIST AT OR BENEATH THE GROUND SURFACE.
7. HAYBALES AND OTHER EROSION CONTROLS FORMERLY USED FOR SITE WORK MAY EXIST ON-SITE.

SCALE: 1"=20'

0' 10' 20' 40' 80'

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	SM	DNP

ACQUIRED RESIDENTIAL PROPERTIES NEW BEDFORD, MA

EXISTING CONDITIONS

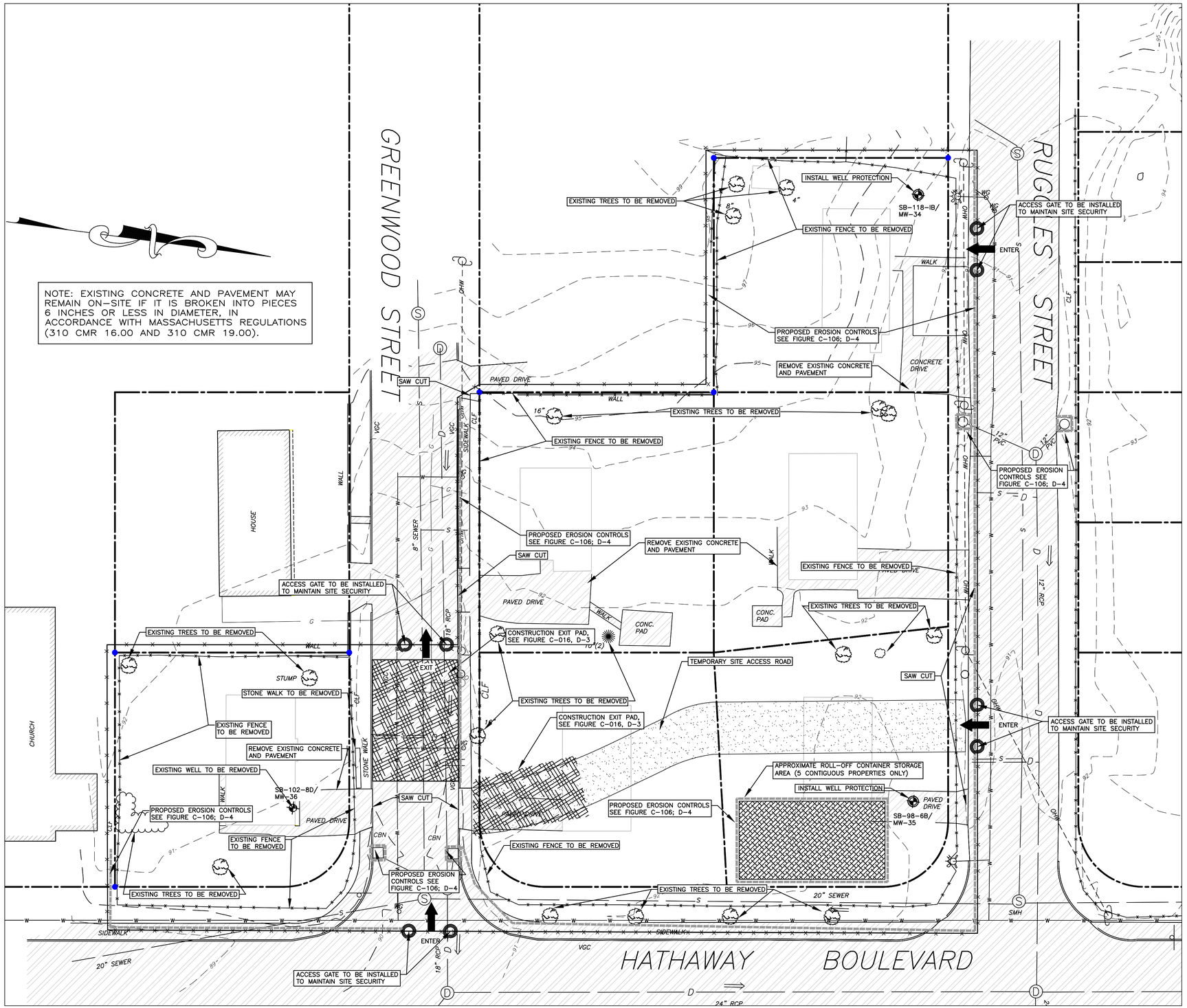
TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

DRAWN BY: DMP
CHECKED BY: DNP
DATE: AUG 16, 2012

FIGURE C-101

FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\C-101 - Existing Conditions.dwg

NOTE: EXISTING CONCRETE AND PAVEMENT MAY REMAIN ON-SITE IF IT IS BROKEN INTO PIECES 6 INCHES OR LESS IN DIAMETER, IN ACCORDANCE WITH MASSACHUSETTS REGULATIONS (310 CMR 16.00 AND 310 CMR 19.00).



LEGEND – EXISTING CONDITIONS

- PROPOSED FENCE LINE
- PROPOSED STRAW BALES
- PROPOSED SAW CUT
- PROPERTY CORNER
- TEMPORARY ACCESS GATE

SITE PREPARATION NOTES:

1. CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND STANDARDS SET FORTH BY THE CITY OF NEW BEDFORD.
3. CONTRACTOR SHALL COORDINATE WITH THE CITY TO SECURE SITE ACCESS AGREEMENTS FROM ABUTTING PROPERTY OWNERS PRIOR TO INSTALLING TEMPORARY FENCING OR OTHERWISE ENTERING ABUTTING PROPERTIES.
4. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FACILITIES TO PERFORM THE WORK INCLUDING TEMPORARY SANITARY FACILITIES AND WATER SUPPLY TO COMPLETE WORK. ALL TEMPORARY FACILITIES INSTALLED AS PART OF THIS WORK WILL BE REMOVED AND THE AREA RESTORED TO PRE-EXISTING OR DESIGN CONDITIONS, WHERE APPROPRIATE.
5. PRIOR TO COMMENCING SITE WORK, THE CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT OF ENVIRONMENTAL STEWARDSHIP TO NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
6. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES AND REMOVE SEDIMENT ON A DAILY BASIS, AND DURING PERIODS OF ACTIVE WORK.
7. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE SYSTEMS. EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL UPGRADIENT AREAS HAVE BEEN STABILIZED.
8. THE CONTRACTOR SHALL INSTALL A DECONTAMINATION AREA THAT WILL ACCOMMODATE HEAVY VEHICLES. ALL DECONTAMINATION FLUIDS SHALL BE COLLECTED BY THE CONTRACTOR AND DISPOSED AS TSCA REGULATED WASTE.
9. CONTRACTOR SHALL INSTALL TEMPORARY 6-FOOT CHAIN-LINK FENCE AS INDICATED ON THIS PLAN. FENCE SECTIONS WILL HAVE SUPPORT FEET AND WILL NOT PENETRATE THE GROUND.
10. EXISTING MONITORING WELLS IDENTIFIED FOR REMOVAL SHALL BE MANAGED AS TSCA-REGULATED WASTE, UNLESS PROVEN OTHERWISE THROUGH ANALYTICAL SAMPLING PERFORMED BY THE CONTRACTOR.
11. EXISTING MONITORING WELLS IDENTIFIED FOR DECOMMISSIONING SHALL BE DECOMMISSIONED IN ACCORDANCE WITH MASSDEP WSC-310-91 STANDARD REFERENCE FOR MONITORING WELLS AND 1999 SDDW SUPPLEMENT. WELLS TO BE DECOMMISSIONED BY REMOVAL.
12. ALL SOILS SHALL BE DISLODGED FROM STUMPS, FENCE POSTS, AND OTHER DEBRIS DURING CLEARING AND FENCE POST REMOVAL. DISLODGED SOILS WILL THEN BE PLACED BACK INTO THE HOLE FROM WHICH THEY WERE REMOVED.
13. TRUCKS SHALL USE EXISTING CURB CUTS FOR PROPERTY ACCESS, OR STEEL PLATING SHALL BE UTILIZED IF NECESSARY TO AVOID DAMAGE TO EXISTING CURBING.
14. CONSTRUCTION EXIT PAD ON GREENWOOD STREET SHALL EXTEND FROM CURB TO CURB ACROSS ROADWAY.
15. TRAFFIC FLOW PATTERN TO BE APPROVED BY CITY OF NEW BEDFORD POLICE DEPARTMENT, AND INCORPORATED INTO A CONTRACTOR'S HAUL ROUTES AND STAGING AREAS PLAN.
16. IF TSCA REGULATED SOILS ARE STORED ON PAVED SURFACES, THOSE SURFACES SHALL BE SAMPLED TO CONFIRM THEY HAVE NOT BEEN CONTAMINATED PRIOR TO PROJECT COMPLETION.
17. PROPERTY CORNERS AND POINTS OF TANGENCY IDENTIFIED ON THIS PLAN SHALL BE LOCATED AND MARKED BY A LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO THE START OF WORK.
18. EXISTING GROUNDWATER MONITORING WELLS NOT IDENTIFIED FOR REMOVAL WILL BE PROTECTED AND MAINTAINED DURING WORK. A 3' HIGH (MINIMUM) WELL TILE OR EQUIVALENT PROTECTIVE STRUCTURE WILL BE PLACED AROUND MONITORING WELLS FOR THE DURATION OF WORK.
19. AT THE DISCRETION OF THE CITY, THE EXISTING ASPHALT AND CONCRETE IDENTIFIED FOR REMOVAL MAY REMAIN ON-SITE. ANY ASPHALT, BRICK, OR CONCRETE THAT WILL REMAIN ON-SITE SHALL FIRST BE BROKEN INTO PIECES LESS THAN SIX INCHES IN DIAMETER BY THE CONTRACTOR. THE CONTRACTOR SHALL THEN THE PIECES SHALL THEN TEMPORARILY STOCKPILE THE PIECES IN THE CENTRALIZED LOCATION SHOWN IN DRAWING C-103, TO BE GRADED INTO THE SUBGRADE AS SHOWN IN DRAWING C-104.
20. EXISTING FENCE POSTS, ASPHALT, BRICK, CONCRETE, AND OTHER DEBRIS REMOVED FROM AREAS OF SOIL KNOWN TO CONTAIN PCBs EQUAL TO OR GREATER THAN 50 MG/KG SHALL BE MANAGED AS TSCA-REGULATED WASTE, UNLESS PROVEN OTHERWISE THROUGH ANALYTICAL SAMPLING PERFORMED BY THE CONTRACTOR.

SCALE: 1"=20'

0' 10' 20' 40' 80'

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	JCM	DMP

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MA

SITE PREPARATION PLAN

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

DRAWN BY: JCM
CHECKED BY: DMP
DATE: 8/16/2012

FIGURE C-102

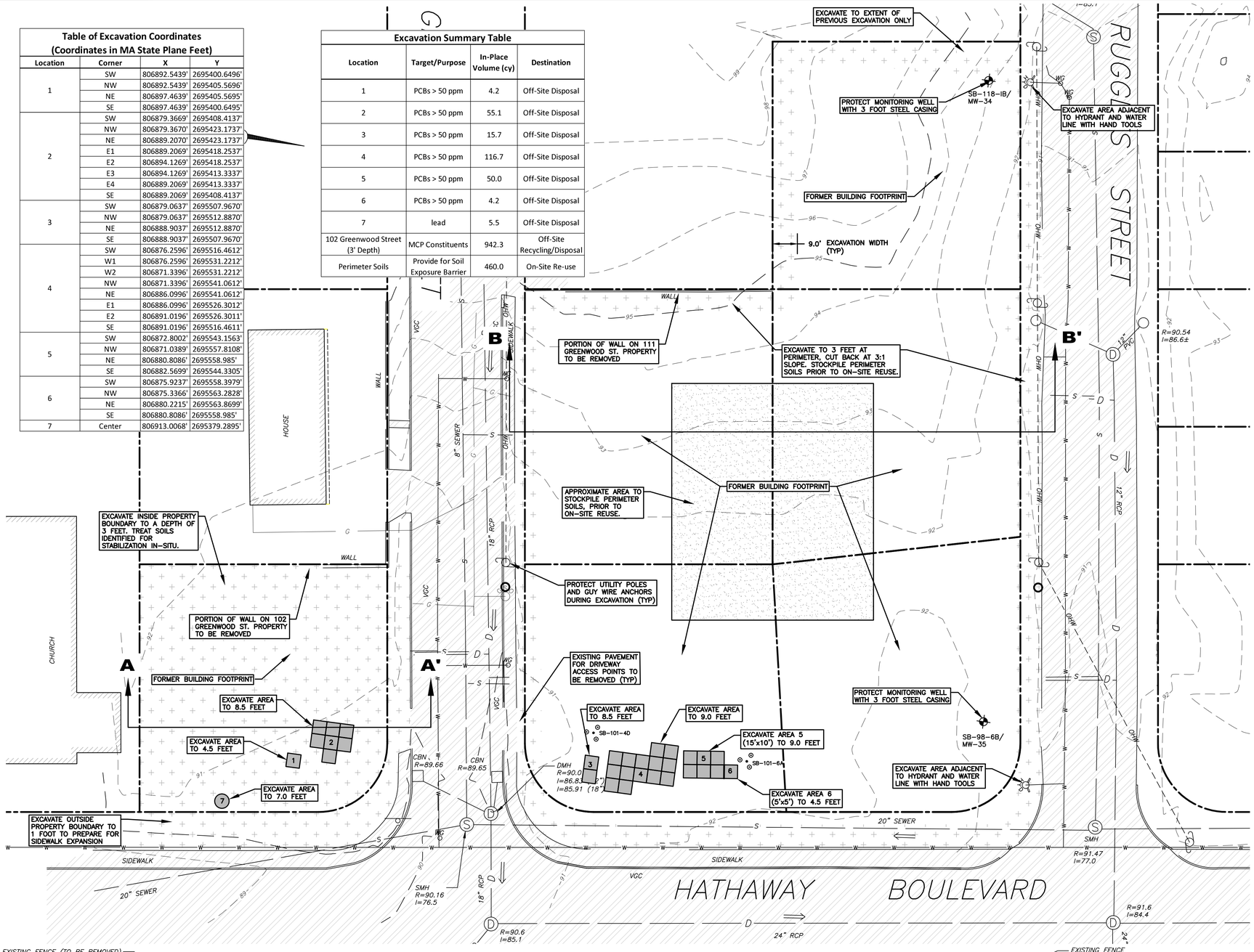
FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\C-102 - Site Preparation.dwg

Table of Excavation Coordinates (Coordinates in MA State Plane Feet)

Location	Corner	X	Y
1	SW	806892.5439'	2695400.6496'
	NW	806892.5439'	2695405.5696'
	NE	806897.4639'	2695405.5695'
	SE	806897.4639'	2695400.6495'
2	SW	806879.3669'	2695408.4137'
	NW	806879.3670'	2695423.1737'
	NE	806889.2070'	2695423.1737'
	E1	806889.2069'	2695418.2537'
	E2	806894.1269'	2695418.2537'
	E3	806894.1269'	2695413.3337'
	E4	806889.2069'	2695413.3337'
	SE	806889.2069'	2695408.4137'
3	SW	806879.0637'	2695507.9670'
	NW	806879.0637'	2695512.8870'
	NE	806888.9037'	2695512.8870'
	SE	806888.9037'	2695507.9670'
4	SW	806876.2596'	2695516.4612'
	W1	806876.2596'	2695531.2212'
	W2	806871.3396'	2695531.2212'
	NW	806871.3396'	2695541.0612'
	NE	806886.0996'	2695541.0612'
	E1	806886.0996'	2695526.3012'
	E2	806891.0196'	2695526.3011'
	SE	806891.0196'	2695516.4611'
5	SW	806872.8002'	2695543.1563'
	NW	806871.0389'	2695557.8108'
	NE	806880.8086'	2695558.985'
	SE	806882.5699'	2695544.3305'
6	SW	806875.9237'	2695558.3979'
	NW	806875.3366'	2695563.2828'
	NE	806880.2215'	2695563.8699'
	SE	806880.8086'	2695558.985'
7	Center	806913.0068'	2695379.2895'

Excavation Summary Table

Location	Target/Purpose	In-Place Volume (cy)	Destination
1	PCBs > 50 ppm	4.2	Off-Site Disposal
2	PCBs > 50 ppm	55.1	Off-Site Disposal
3	PCBs > 50 ppm	15.7	Off-Site Disposal
4	PCBs > 50 ppm	116.7	Off-Site Disposal
5	PCBs > 50 ppm	50.0	Off-Site Disposal
6	PCBs > 50 ppm	4.2	Off-Site Disposal
7	lead	5.5	Off-Site Disposal
102 Greenwood Street (3' Depth)	MCP Constituents	942.3	Off-Site Recycling/Disposal
Perimeter Soils	Provide for Soil Exposure Barrier	460.0	On-Site Re-use



LEGEND – REMEDIAL EXCAVATION

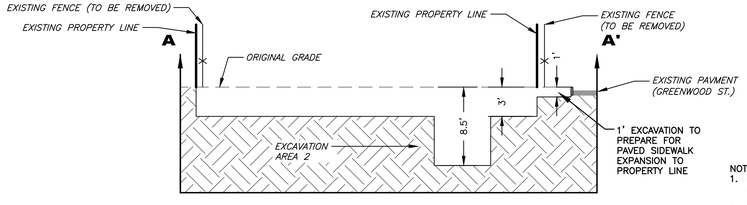
- PROPOSED TARGETED EXCAVATION AREA (CONTAINS PCBs > 50 MG/KG)
- PROPOSED DELINEATION SAMPLE LOCATION
- PROPOSED GENERAL EXCAVATION AREA (MAY CONTAIN SOIL IMPACTS > MCP METHOD 1 STANDARDS)
- TEMPORARY STOCKPILE FOR PERIMETER SOILS, TO BE USED AS NECESSARY. PERIMETER SOILS TO BE REUSED ON-SITE BENEATH SOIL EXPOSURE BARRIER.

CONSTRUCTION SEQUENCE

1. ESTABLISH CONSTRUCTION WORKSPACE LIMITS; IDENTIFY AND MARK SENSITIVE UTILITIES/RESOURCES.
2. INSTALL TEMPORARY FENCING AND ACCESS GATES, THEN REMOVE EXISTING SECURITY FENCE.
3. PERFORM ALL WORK IN ACCORDANCE WITH MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS (2003), AND THE CITY OF NEW BEDFORD STANDARDS AND SPECIFICATIONS.
4. CLEAR TIMBER AND BRUSH; DO NOT GRUB SURFACE SOILS UNTIL IMMEDIATELY PRIOR TO EXCAVATION.
5. INSTALL AND MAINTAIN SEDIMENT BARRIERS SUCH AS SILT FENCING AND/OR OTHER EROSION CONTROL BARRIERS ALONG THE DOWNHILL LIMIT OF WORK, AS SHOWN ON THE SITE PREPARATION PLAN. SEDIMENT BARRIER LOCATIONS MAY BE ADJUSTED IN THE FIELD BASED ON SITE CONDITIONS AS DETERMINED BY THE LICENSED SITE PROFESSIONAL OR HIS DESIGNEE. STRAW BALES SHALL BE ANCHORED WHERE POSSIBLE, AND/OR SET ON PAVEMENT AS SHOWN IN THE DRAWING DETAILS.
6. CONSTRUCT SITE ENTRANCE AND EXIT PADS, AND STABILIZE ACCESS WAY SURFACE, PARKING AREAS AND EQUIPMENT STORAGE AND LAYDOWN AREAS WITH MATTING, CRUSHED STONE OR GRAVEL SUBBASE AS NECESSARY TO MINIMIZE RUTTING AND AVOID PONDING. TRUCKS SHALL USE EXISTING CURB CUTS FOR PROPERTY ACCESS, OR STEEL PLATING SHALL BE UTILIZED IF NECESSARY TO AVOID DAMAGE TO EXISTING CURBING. ESTABLISH SOIL STOCKPILE AREAS.
7. CONCURRENT WITH INITIATION OF EXCAVATION AND SITE GRADING, CONSTRUCT AND STABILIZE TEMPORARY DRAINAGE SWALES, DIVERSION BERMS, CHECK DAMS, AND CULVERTS WITH TEMPORARY INLET AND OUTLET STRUCTURES TO MINIMIZE SEDIMENT IN SITE RUNOFF DURING THE CONSTRUCTION OF THE ROADWAY.
8. EXCAVATION ACTIVITIES SHALL BEGIN BY TARGETING AREAS WITH SOILS CONTAINING 50 PPM OR GREATER PCBs, AND LOADING THESE SOILS DIRECTLY INTO ROLL-OFF CONTAINERS. EXCAVATION SHALL BE SEQUENCED SUCH THAT AREAS OF LOWER-LEVELS OF PCB IMPACTED SOILS OVER 50 MG/KG ARE EXCAVATED FIRST, AND PROCEED INCREMENTALLY RELATIVE TO CONCENTRATION FINISHING WITH AREAS OF HIGH-LEVELS OF PCB IMPACTED SOILS, AS SITE CONDITIONS ALLOW, OR AS DIRECTED BY THE LICENSED SITE PROFESSIONAL. **NOTE THAT EXCAVATED SOILS SHALL NOT BE TRANSFERRED FROM 102 GREENWOOD STREET PROPERTY TO THE FIVE CONTIGUOUS PROPERTIES.** WITH THE EXCEPTION OF PERIMETER SOILS TO BE USED AS BACKFILL, EXCAVATED SOILS SHALL NOT BE TRANSFERRED FROM THE FIVE CONTIGUOUS PROPERTIES TO THE 102 GREENWOOD STREET PROPERTY.
9. EXCAVATION ACTIVITIES SHALL NOT EXTEND PAST THE INDICATED PROPERTY BOUNDARIES. OPEN EXCAVATIONS SHALL BE CLEARLY MARKED WITH CAUTION TAPE, OR SIMILAR METHOD. NO PERSON SHALL ENTER EXCAVATIONS GREATER THAN 4 FEET IN DPETH UNLESS OSHA REQUIREMENTS FOR SLOPING/SHEETING ARE MET.
10. MINIMIZE THE AMOUNT OF DISTURBANCE AT ANY ONE TIME BY STAGING CONSTRUCTION AS MUCH AS PRACTICAL FOR EFFICIENT EXCAVATION AND CONSTRUCTION. NATURAL VEGETATIVE BUFFERS OR STRIPS SHOULD BE LEFT IN PLACE WHERE FEASIBLE TO AID IN SEDIMENT RETENTION AND REDUCE EROSION POTENTIAL.
11. TREAT SOILS REQUIRING STABILIZATION FOR LEACHABLE METALS IN-SITU ON THE 102 GREENWOOD STREET PROPERTY. SOILS REQUIRING STABILIZATION SHALL BE IDENTIFIED VIA TCLP SOIL SAMPLING BY THE LICENSED SITE PROFESSIONAL.
12. EXCAVATE SOILS FROM THE PERIMETER OF THE FIVE CONTIGUOUS PROPERTIES. SOILS EXCAVATED FROM THE PERIMETER OF THE FIVE CONTIGUOUS PROPERTIES SHALL BE TEMPORARILY STOCKPILED, AS NECESSARY, UNTIL GRADED AS SHOWN IN THE SUBGRADE GRADING PLAN. PERIMETER SOILS MAY ALSO BE USED TO BACKFILL TARGETED EXCAVATION AREAS TO SUBGRADE ELEVATIONS.
13. INSPECT AND REPAIR EROSION CONTROL MEASURES DAILY IN AREAS OF ACTIVE CONSTRUCTION; OTHERWISE WEEKLY AND AFTER RAINFALL OF ½ INCH OR GREATER WITHIN A 24-HOUR PERIOD. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE BARRIER.
14. DUST CONTROL METHODS SHALL BE EMPLOYED THROUGHOUT EXCAVATION AND GRADING PRIOR TO FINAL STABILIZATION. DUST CONTROL SHALL PREVENT THE BLOWING AND MOVEMENT OF DUST THROUGH THE APPLICATION OF WATER AND/OR CALCIUM CHLORIDE TO REDUCE WIND EROSION. REPETITIVE TREATMENT WILL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.
15. APPLY TEMPORARY SEED AND MULCH AS APPROVED BY THE ENGINEER TO ANY EXPOSED AREAS WHERE ACTIVITY IS NOT ANTICIPATED FOR 30 DAYS OR MORE, OR WHERE ACTIVITY HAS NOT OCCURRED WITHIN 30 DAYS.
16. REMOVE STOCKPILED SOILS DESTINED FOR OFF-SITE RECYCLING/DISPOSAL AS DIRECTED BY THE LICENSED SITE PROFESSIONAL.
17. MONITOR PUBLIC ROADS FOR SIGNS OF TRACKING OR SPILLING OF SOIL MATERIAL AND IMMEDIATELY CLEAN UP ANY SPILLED SOIL.
18. BACKFILL AREAS WITH CLEAN SOIL SOURCED BY THE CITY OF NEW BEDFORD AS SHOWN IN THE FINAL CONDITIONS PLAN, TO THE ELEVATIONS SHOWN, IN ORDER TO CONSTRUCT THE SOIL EXPOSURE BARRIER. NOTE THAT A BLACK SEPARATION FABRIC AND AN ORANGE WARNING LAYER ARE TO BE PLACED ON SUBGRADE SOILS PRIOR TO BACKFILL.
19. INSTALL PAVEMENT FOR SIDEWALK EXPANSION ADJACENT TO 102 GREENWOOD STREET, AND INSTALL NEW SECTIONS OF GRANITE CURBING WHERE SHOWN.
20. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL UPGRADIENT AREAS HAVE BEEN PERMANENTLY STABILIZED.

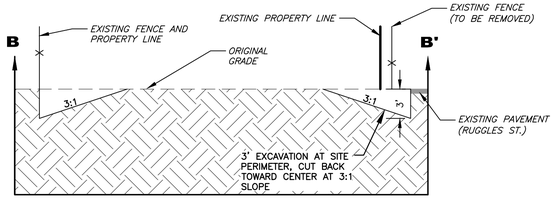
NOTES

1. THE LICENSED SITE PROFESSIONAL FOR THIS WORK SHALL BE TRC ENVIRONMENTAL CORPORATION.
2. EXCAVATION AREAS ARE BASED ON DATA AVAILABLE TO DATE. EXCAVATIONS WILL PROCEED, PENDING CONFIRMATORY SAMPLING RESULTS AND/OR OBSERVATIONS MADE BY THE LICENSED SITE PROFESSIONAL, UNTIL REMEDIAL GOALS HAVE BEEN MET.
3. EXTENTS OF EXCAVATIONS ARE TO BE LAID OUT BY A LICENSED LAND SURVEYOR PRIOR TO REMOVAL ACTIVITIES.
4. EXCAVATED SOIL SHALL BE SEGREGATED BASED ON THE FOLLOWING CATEGORIES:
   - TYPE A SOIL (PCB CONCENTRATION GREATER THAN OR EQUAL TO 50 MG/KG) – TYPE A SOIL EXHIBITS A PCB CONCENTRATION GREATER THAN OR EQUAL TO 50 MG/KG AND IS NOT EXPECTED TO BE RCRA CHARACTERISTIC HAZARDOUS. IF ANALYTICAL DATA INDICATE THE SOIL IS RCRA CHARACTERISTIC HAZARDOUS, THE SOIL MAY BE TREATED ON-SITE TO RENDER IT NON-RCRA CHARACTERISTIC HAZARDOUS. THIS SOIL WILL BE EITHER DISPOSED OF AT A LICENSED TSCA CHEMICAL WASTE LANDFILL IF THE SOIL IS TREATED AND THE TREATMENT IS EFFECTIVE IN RENDERING THE SOIL NON-RCRA CHARACTERISTIC HAZARDOUS, OR A LICENSED TSCA/RCRA CHEMICAL WASTE LANDFILL.
   - TYPE B SOIL (PCB CONCENTRATION GREATER THAN 2 MG/KG BUT LESS THAN 50 MG/KG AND POTENTIALLY RCRA CHARACTERISTIC HAZARDOUS) – TYPE B SOIL EXHIBITS A PCB CONCENTRATION GREATER THAN 2 MG/KG BUT LESS THAN 50 MG/KG, AND EXHIBITS METALS CONCENTRATIONS GREATER THAN 20 TIMES THE TCLP LIMITS. IF TCLP ANALYSIS DATA INDICATES SOILS ARE RCRA CHARACTERISTIC HAZARDOUS, SOILS MAY BE TREATED ON-SITE TO RENDER THE SOILS NON-RCRA CHARACTERISTIC HAZARDOUS. THIS SOIL WILL BE DISPOSED OF AT AN APPROPRIATELY LICENSED FACILITY.
   - TYPE C SOIL (PCB CONCENTRATION LESS THAN 2 MG/KG AND POTENTIALLY RCRA CHARACTERISTIC HAZARDOUS) – TYPE C SOIL EXHIBITS A PCB CONCENTRATION LESS THAN 2 MG/KG AND EXHIBITS METALS CONCENTRATIONS GREATER THAN 20 TIMES THE TCLP LIMITS. IF TCLP ANALYSIS DATA INDICATES SOILS ARE RCRA CHARACTERISTIC HAZARDOUS, SOILS MAY BE TREATED ON-SITE TO RENDER THE SOILS NON-RCRA CHARACTERISTIC HAZARDOUS. THIS SOIL WILL BE DISPOSED OF AT AN APPROPRIATELY LICENSED FACILITY.
   - TYPE D SOIL (PCB CONCENTRATION GREATER THAN 2 MG/KG BUT LESS THAN 50 MG/KG AND NON-RCRA CHARACTERISTIC HAZARDOUS) – TYPE D SOIL EXHIBITS A PCB CONCENTRATION GREATER THAN 2 MG/KG BUT LESS THAN 50 MG/KG, AND DOES NOT EXHIBIT METALS CONCENTRATIONS GREATER THAN 20 TIMES THE TCLP LIMITS. THIS SOIL WILL BE DISPOSED OF AT AN APPROPRIATELY LICENSED FACILITY.
   - TYPE E SOIL (PCB CONCENTRATION LESS THAN 2 MG/KG AND NON-RCRA CHARACTERISTIC HAZARDOUS) – TYPE E SOIL EXHIBITS A PCB CONCENTRATION LESS THAN 2 MG/KG AND DOES NOT EXHIBIT METALS CONCENTRATIONS GREATER THAN 20 TIMES THE TCLP LIMITS. THIS SOIL WILL BE DISPOSED OF AT AN APPROPRIATELY LICENSED FACILITY.
4. SOIL TYPE CLASSIFICATION MAY BE MODIFIED FOR THE PURPOSES OF SEGREGATION AT THE DISCRETION OF THE LICENSED SITE PROFESSIONAL.
5. DISPOSAL CHARACTERIZATION SAMPLES SHALL BE COLLECTED FROM EACH STOCKPILE BY THE LSP FOLLOWING EXCAVATION AND SEGREGATION. THE FINAL DISPOSITION OF THE SOIL SHALL BE DETERMINED BASED ON THESE REPRESENTATIVE SAMPLES BY THE LSP.
6. DEWATERING OF SOILS IS NOT ANTICIPATED. IF TREATMENT OF EXCAVATION WATER IS NECESSARY, IT SHALL BE CONDUCTED EITHER ON-SITE UNDER AN EPA REMEDIATION GENERAL PERMIT AND OTHER APPLICABLE STATE AND LOCAL PERMITS, OR HAULED OFF-SITE FOR TREATMENT. WATER TREATED ON-SITE SHALL BE DISCHARGED TO THE SUBSURFACE OR A CITY STORM DRAIN UPON RECEIPT OF ACCEPTABLE ANALYTICAL RESULTS.
7. ITEMS OR SURFACES IN CONTACT WITH SOILS OR LIQUIDS EXHIBITING A CONCENTRATION OF PCBs GRATER THAN OR EQUAL TO 50 MG/KG SHALL BE ASSUMED TO EXHIBIT THE SAME PCB CONCENTRATION UNLESS DELINEATED BY ANALYTICAL SAMPLING. THIS DEFINITION APPLIES TO ITEMS OR SURFACES THAT ARE EXPOSED TO SPILLS AND/OR DISCHARGES OF PCB CONCENTRATIONS GREATER THAN 50 MG/KG.



A–A' EXCAVATION CONCEPT - 102 GREENWOOD
TRC NO SCALE DATE: 8/3/2012

NOTES:
1. REMAINING IMPACTED SOILS TO BE COVERED BY A MINIMUM OF 3' OF CLEAN FILL MATERIAL.
2. A BLACK SEPARATION FABRIC IS TO BE PLACED ON IMPACTED SOILS PRIOR TO PLACEMENT OF CLEAN FILL MATERIAL.



B–B' EXCAVATION CONCEPT- 5 CONTIGUOUS PARCELS
TRC NO SCALE DATE: 8/3/2012

SCALE: 1"=20'
0' 10' 20' 40' 80'

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	DMP	DMS

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MA

EXCAVATION PLAN

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

DRAWN BY: DMP | DATE: AUG 16, 2012
CHECKED BY: DMS

FIGURE C-103

FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\C-103 - Excavation Plan.dwg

GREENWOOD STREET

RUGGLES STREET

HATHAWAY BOULEVARD

HOUSE

CHURCH

WALL

SIDEWALK

20" SEWER

8" SEWER

18" RCP

12" RCP

12" PVC

CBN

SMH

SB-118-IB/ MW-34

SB-98-6B/ MW-35

GRADE EXCAVATED PERIMETER SOILS TO ELEVATIONS SHOWN

94.25

AREA TO BE CUT/REGRADED

EXTENT OF SUBGRADE REGRADING

BACKFILL TARGET EXCAVATION AREAS TO ELEVATIONS SHOWN (3 FEET BELOW EXISTING GRADE)

87.72

87.68

87.61

BACKFILL TARGET EXCAVATION AREAS TO ELEVATIONS SHOWN (EXISTING GRADE)

91.37

91.50

91.74

91.79

A

A'

B

B'

LEGEND – PROPOSED SUGRADE

91 — PROPOSED CONTOUR (1')

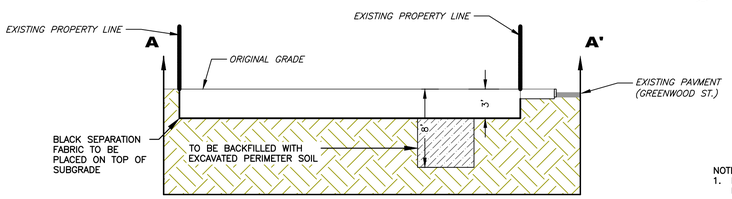
EXTENT OF PROPOSED SUBGRADE REGRADING

94.25 — PROPOSED SUBGRADE SPOT ELEVATION

CONTOURS SHOWN ARE APROXIMATE. FINAL CONTOURS SHALL BE AS DIRECTED BY THE ENGINEER.

NOTES

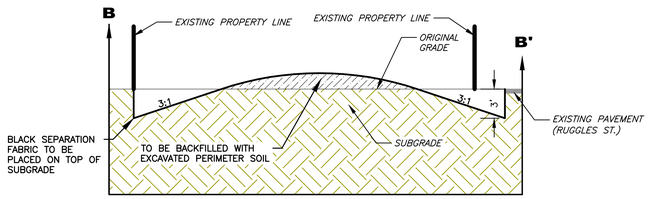
1. ONLY SOILS EXCAVATED FROM THE PERIMETER OF THE FIVE CONTIGUOUS PROPERTIES (APPROXIMATELY 460 CUBIC YARDS), AND ANY ASPHALT, BRICK, OR CONCRETE DIRECTED TO REMAIN ON-SITE AND CRUSHED TO PIECES LESS THAN SIX INCHES IN DIAMETER, SHALL BE REUSED ON-SITE TO PREPARE THE SUBGRADE. SOILS EXCAVATED FROM OTHER PORTIONS OF THE SITE SHALL BE TRANSPORTED AND DISPOSED/RECYCLED AT AN APPROPRIATELY PERMITTED FACILITY UNLESS OTHERWISE DETERMINED BY THE LSP.
2. THE PROPOSED GRADES SHOWN ON THIS PLAN AT THE CENTER OF THE FIVE CONTIGUOUS PROPERTIES WILL ACCOMMODATE APPROXIMATELY 230 CUBIC YARDS (IN-PLACE, COMPACTED VOLUME). THE REMAINING 230 CUBIC YARDS EXCAVATED FROM THE PERIMETER SOILS SHALL BE USED TO BACKFILL THE TARGETED EXCAVATION AREAS TO SUBGRADE EXCAVATIONS.
3. PERIMETER SOILS BACKFILLED INTO DEEP SUBGRADE EXCAVATIONS SHALL BE COMPACTED WITH THE EXCAVATOR BUCKET OR SIMILAR METHOD.
4. THE LICENSED SITE PROFESSIONAL MAY REQUIRE ADDITIONAL SEGREGATION AND STOCKPILING OF SOILS EXCAVATED FROM THE PERIMETER BASED ON HIS/HER OBSERVATIONS.
5. BLACK SEPARATION FABRIC IS TO BE PLACED ON TOP OF SUBGRADE SOILS PRIOR TO IMPORTATION OF CLEAN BACKFILL.



A–A' BACKFILL CONCEPT - 102 GREENWOOD

TRC NO SCALE DATE: 8/3/2012

NOTES:
1. REMAINING IMPACTED SOILS TO BE COVERED BY A MINIMUM OF 3' OF CLEAN FILL MATERIAL.
2. BLACK SEPARATION FABRIC IS TO BE PLACED ON SUBGRADE SOILS PRIOR TO PLACEMENT OF CLEAN FILL MATERIAL.



B–B' EXCAVATION CONCEPT- 5 CONTIGUOUS PARCELS

TRC NO SCALE DATE: 8/3/2012

SCALE: 1"=20'

0' 10' 20' 40' 80'

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	DMP	DMS

ACQUIRED RESIDENTIAL PROPERTIES NEW BEDFORD, MA

SUBGRADING PLAN

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

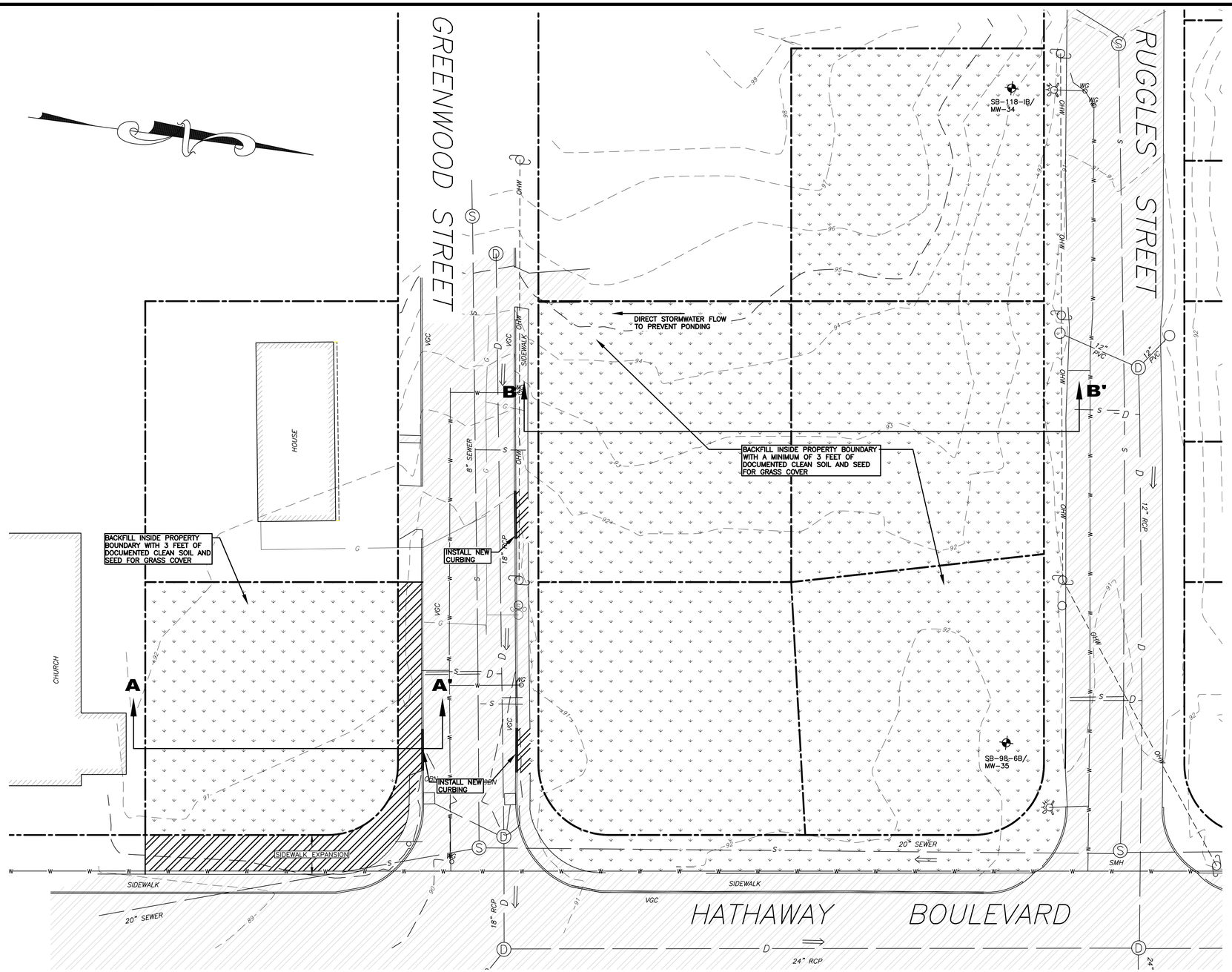
DRAWN BY: DMP

CHECKED BY: DMS

DATE: AUG 16, 2012

FIGURE C-104

FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\C-104 - Subgrading.dwg



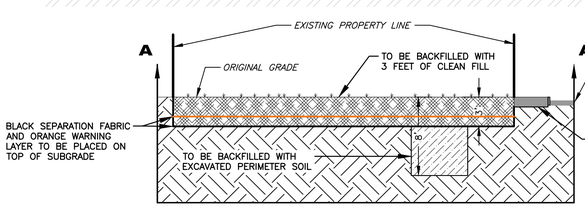
LEGEND – REMEDIAL EXCAVATION

- AREA TO BE SEEDED FOR GRASS COVER
- PROPOSED ASPHALT SIDEWALK EXPANSION AREA
- REMAINING MONITORING WELL

CONTOURS SHOWN ARE APPROXIMATE. FINAL CONTOURS SHALL BE AS DIRECTED BY THE ENGINEER. A MINIMUM OF 3 FEET OF CLEAN SOIL SHALL BE PLACED OVER THE SUBRADE SOILS.

FINAL CONDITIONS NOTES:

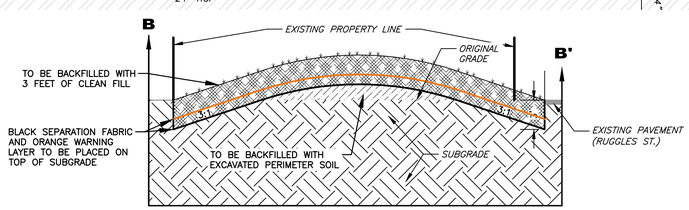
1. BACKFILL AREAS WITH DOCUMENTED CLEAN SOIL AS SHOWN IN THE FINAL CONDITIONS PLAN, TO THE ELEVATIONS SHOWN. NOTE THAT A BLACK SEPARATION FABRIC AND AN ORANGE WARNING LAYER ARE TO BE PLACED ON SUBGRADE SOILS PRIOR TO BACKFILL.
2. THE FINAL GRADE AT 102 GREENWOOD STREET SHALL MATCH EXISTING CONDITIONS WITH 3 FEET OF DOCUMENTED CLEAN SOIL COVER ABOVE THE REMAINING SUBGRADE.
3. THE FIVE CONTIGUOUS PROPERTIES SHALL SLOPE UP FROM THE PERIMETER AT A 3:1 SLOPE TO ACHIEVE 3 FEET OF COVER OVER SUBGRADE SOILS.
4. INSTALL PAVEMENT FOR SIDEWALK EXPANSION ADJACENT TO 102 GREENWOOD STREET AND INSTALL NEW SECTIONS OF GRANITE CURBING WHERE SHOWN TO MATCH EXISTING CONDITIONS. CONSTRUCTION OF THE SIDEWALK AND CURBING SHALL CONFORM TO THE CITY OF NEW BEDFORD DEPARTMENT OF INFRASTRUCTURE CONSTRUCTION STANDARDS AND SPECIFICATIONS.
5. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL UPGRADIENT AREAS HAVE BEEN PERMANENTLY STABILIZED. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE SYSTEMS.
6. SEEDING SHALL OCCUR BETWEEN APRIL 15 AND SEPTEMBER 15, AND SUPPLEMENTAL WATERING IS REQUIRED UNTIL GERMINATION. MODIFICATION OF SEEDING TIME, METHOD, OR SUPPLEMENTAL WATERING SHALL REQUIRE OWNER APPROVAL.
7. THE CONTRACTOR SHALL SUBMIT FERTILIZING TESTING RESULTS AND A SEED MIX PLAN OF SOILS PROPOSED FOR IMPORTATION. THE APPLICATION RATE WILL BE 1LB PER 1,250 SQUARE FEET AS AN UNDERSTORY SEEDING.
8. EXTENTS OF SIDEWALK EXPANSION SHALL BE STAKED BY A MASSACHUSETTS PROFESSIONAL SURVEYOR PRIOR TO PAVING. SIDEWALK PAVEMNET SHALL EXTEND TO ADJACENT PROPERTY.
9. AT THE DISCRETION OF THE CITY, EXISTING CURB CUTS MAY BE MAINTAINED TO FACILITATE EQUIPMENT AND/OR HANDICAP ACCESS TO THE SITE.



A–A' BACKFILL CONCEPT - 102 GREENWOOD

TRC NO SCALE DATE: 8/3/2012

NOTES:
1. REMAINING IMPACTED SOILS TO BE COVERED BY A MINIMUM OF 3' OF CLEAN FILL MATERIAL.
2. A BLACK SEPARATION FABRIC IS TO BE PLACED ON SUBGRADE SOILS PRIOR TO PLACEMENT OF CLEAN FILL MATERIAL.
3. A 1' LAYER OF CLEAN SOIL SHALL BE PLACED ON THE SEPARATION FABRIC FOLLOWED BY AN ORANGE WARNING LAYER.



B–B' EXCAVATION CONCEPT- 5 CONTIGUOUS PARCELS

TRC NO SCALE DATE: 8/3/2012

SCALE: 1"=20'

0' 10' 20' 40' 80'

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	SM	DMS

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MA

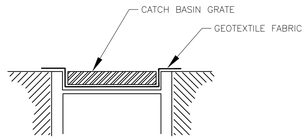
FINAL CONDITIONS PLAN

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

DRAWN BY: SM
CHECKED BY: DMS
DATE: 8/16/12

FIGURE C-105

FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\C-105 - Final Conditions.dwg

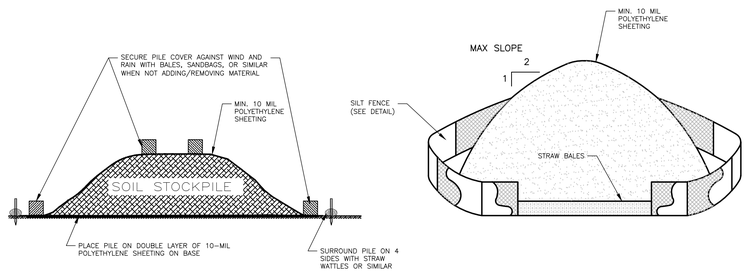


NOTES:

1. THE GEOTEXTILE FABRIC SHALL BE PLACED JUST BENEATH THE CATCH BASIN GRATE. THE CATCH BASIN GRATE SHALL BE USED TO SECURE THE GEOTEXTILE FABRIC IN PLACE.
2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER STORM EVENTS. ACCUMULATED SEDIMENT SHALL BE REMOVED DURING THESE INSPECTIONS. DAMAGES SHALL BE REPAIRED OR REPLACED PROMPTLY.
3. APPLY TO ALL CATCH BASINS SITUATED WHERE RECEIPT OF STORMWATER RUNOFF FROM THE SITE IS POSSIBLE.

D-1 CATCH BASIN FILTER DETAIL

TRC NOT TO SCALE DATE: 8/3/2012

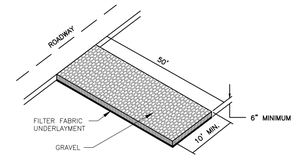


NOTES:

1. STOCKPILE SHOULD BE PLACED IN HIGH-GROUND AREAS WHERE THE POTENTIAL TO RECEIVE STORMWATER RUN-ON FROM SURROUNDING AREAS IS MINIMIZED.
2. STOCKPILES SHALL BE PLACED ON DOUBLE-LINED POLYETHYLENE SHEETING, AND BE COMPLETELY COVERED WITH ONE LAYER OF POLYETHYLENE SHEETING TO PREVENT STORMWATER INFILTRATION. EACH LAYER OF SHEETING SHALL HAVE A MINIMUM THICKNESS OF 10 MIL.
3. IF POLYETHYLENE SHEETING BECOMES DESTROYED OR DAMAGED DURING COMPLETION OF THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURTHER SAMPLING OR REMEDIATION THAT MAY BE REQUIRED.

D-2 STOCKPILE CONTAINMENT SYSTEM

TRC NOT TO SCALE DATE: 8/3/2012

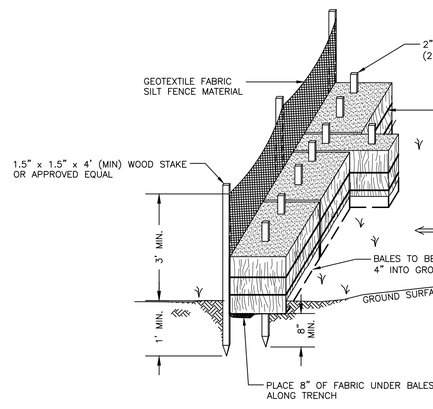


NOTES:

1. THE PAD SHOULD BE AT LEAST 10 FEET WIDE.
2. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
3. IF THE SITE CONDITIONS ARE SUCH THAT THE MAJORITY OF MUD IS NOT REMOVED FROM THE VEHICLE TIRES BY THE GRAVEL PAD, THEN THE TIRES SHALL BE BRUSHED AND/OR WASHED BEFORE THE VEHICLE LEAVES THE SITE. WASH WATER SHALL BE DIRECTED INTO A SEDIMENT TRAP OR OTHER APPROVED SEDIMENT TRAPPING DEVICE.
4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE.
5. REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD IMMEDIATELY. SPILLING OF TSCA-REGULATED WASTE MAY RESULT IN FINES, WHICH SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. SOIL, DECONTAMINATION FLUIDS, AND WASHWATER SHALL NOT COME INTO DIRECT CONTACT WITH PAVED SURFACES OR OTHER PROJECT FEATURES. ALL DECONTAMINATION FLUIDS AND WASHWATER THAT HAVE COME INTO CONTACT WITH TSCA-REGULATED SOIL (I.E., SOIL CONTAINING PCBs > 50 PPM) SHALL BE COLLECTED BY THE CONTRACTOR AND MANAGED AS TSCA-REGULATED WASTE.

D-3 CONSTRUCTION ENTRANCE PAD

TRC NOT TO SCALE DATE: 8/3/2012



D-4 SILT FENCE AND BALE BARRIER

TRC NOT TO SCALE DATE: 8/3/2012

NOTES:

1. CONTRACTOR MAY PROPOSE ALTERNATIVE EROSION CONTROLS FOR ENGINEER APPROVAL.

SCALE: 1"=20'

0' 10' 20' 40' 80'

REV.	DATE	DESCRIPTION	C/O	DRN	CHK
A	8/16/12	30% DESIGN SUBMITTAL	CoNB	SM	DMS

ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MA

DETAILS

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

DRAWN BY: SM
CHECKED BY: DMS
DATE: 8/16/2012

FIGURE C-106

FILE: J:\Projects\115058 - New Bedford\RAM Plan - ARP_Final Design\CAD\C-106 - Details.dwg

APPENDIX C

RISK EVALUATION

Memorandum

To: Dave Sullivan, LSP, TRC Environmental Corporation

From: Diane Silverman, Ph.D., TRC Environmental Corporation

CC: David N. Peterson, TRC Environmental Corporation

Subject: Summary of Method 3 Construction Worker Risk Calculations for the Acquired Residential Properties, New Bedford, Massachusetts

Date: July 30, 2012

This memorandum summarizes Method 3 risk calculations for the construction worker scenario, prepared to evaluate anticipated post-excavation conditions at the Acquired Residential Properties in New Bedford, Massachusetts (the Site). The Method 3 risk calculations were prepared consistent with 310 CMR 40.0835(4) (g) and (h) of the Massachusetts Contingency Plan (MCP) and the Massachusetts Department of Environmental Protection (MassDEP) *Guidance for Disposal Site Risk Characterization* (MassDEP, 1995). The risk calculations were performed to determine whether, following the risk reduction measure associated with the excavation of polychlorinated biphenyl (PCB) and lead-impacted locations identified in the draft Release Abatement Measure (RAM) Plan, construction workers exposures can occur without restriction or limitation. No other receptors have been included in this evaluation because the Acquired Residential Properties will be covered with three feet of clean soil material and an Activity and Use Limitation will be implemented to manage soils located greater than three feet below the surface, thereby preventing chemicals of potential concern (COPC) exposure to non-construction worker receptors.

Two exposure points (EPs) have been evaluated, consistent with the approach used for the Method 3 risk characterization completed as part of the January 2012 Phase II Comprehensive Site Assessment (CSA) completed for the Site. EP-1 consists of the 5 contiguous parcels (the 101 Greenwood Street, 111 Greenwood Street, 98 Ruggles Street, 108 Ruggles Street and 118 Ruggles Street properties) and EP-2 consists of the 102 Greenwood Street property. In the Phase II risk characterization, construction workers were assumed to be exposed to soil via incidental ingestion, dermal contact and fugitive dust inhalation, to shallow groundwater via dermal contact and to trench air via inhalation of volatile compounds released from soil. Because no additional groundwater data have been collected subsequent to the Phase II CSA and the targeted risk reduction measure is focused on the excavation of PCB and lead impacted soil, risks and hazards estimated in the Phase II risk characterization for the shallow groundwater and trench air exposure pathways have been used without modification to estimate cumulative risk for the construction worker. Therefore, this memorandum focuses on the recalculation of risk and hazards for soil exposure pathways associated with the PCB and lead risk reduction measure.

Analytical data collected by BETA, TRC and Weston between December 2005 and May 2010 were considered for use in the Method 3 risk calculations. Analytical data from soil sample locations targeted for removal and off-site disposal were not included in the data set. These

locations include SB-185, SB-102-6, SB-102-8A, SB-102-8B, SB-102-8C, SB-102-8D, H2, SB-101-4A/5C, SB-101-4B, SB-101-5A, SB-101-6B, TP 101 H, TP 101 I, and A15 for PCBs and SB-102-5D for lead. Because the top three feet of soil at the 102 Greenwood Street property will be excavated before placement of three feet of clean soil cover material, sample location data associated with the 0 to 3 foot soil interval at this property were also removed from the data set. In addition, sample locations exhibiting non-detect or below background concentrations of chemicals were excluded from the data set, consistent with the approach used for the Phase II risk characterization. Tables 1 and 2 present summaries of the analytical data for the 0 to 15 foot soil interval for EP-1 and EP-2, respectively, applicable to construction worker exposures. As discussed below, a mercury hot spot was identified at the 108 Ruggles Street property (sample location 108 Comp 2). Data for this hot spot are presented in Table 3.

Chemicals Evaluated

As described by MassDEP, chemicals with maximum detected concentrations below MassDEP-published natural soil background concentrations are not evaluated in the risk characterization because their concentrations are consistent with those seen in unimpacted areas. Therefore, the chemicals evaluated for these Method 3 risk calculations are those with individual detected concentrations in excess of MassDEP established background concentrations or detected chemicals for which background concentrations have not been established. All chemicals detected in the 0 to 15 foot interval soil for EP-1 were selected for evaluation (Table 1). As presented in Table 2, the polyaromatic hydrocarbons (PAHs) acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, phenanthrene and pyrene, and the metal, vanadium, were not included in the evaluation based on comparison to MassDEP "natural" soil background concentrations. In addition, detected PAHs, arsenic, cadmium and chromium were not evaluated at the 108 Comp 2 mercury hot spot due to the background comparison presented on Table 3.

Hot Spots

Soil data from the Site were evaluated for the presence of hot spots. A hot spot is defined in the MCP as a discrete area where the chemical concentrations are substantially higher than those present in the surrounding area. A discrete area where the average concentration within the area is greater than ten but less than one hundred times the average concentration in the immediate surrounding area is a hot spot unless there is no evidence that the discrete area would be associated with greater exposure potential than the surrounding area. In all cases, a discrete area where the chemical concentration is greater than one hundred times the concentration in the surrounding area is to be considered a hot spot. The identification of hot spots is performed to minimize the likelihood that a location with significantly elevated chemical concentrations will be diluted by combining it with locations of lesser chemical concentrations in the evaluation.

As further stated in the MCP, in no case should chemical concentrations equal to or less than an applicable MCP Method 1/Method 2 soil standard be considered indicative of a hot spot. Therefore, 16 chemicals at EP-1 and 6 chemicals at EP-2 were included in the hot spot analysis as all other detected chemicals were present at levels less than applicable MCP Method

1/Method 2 soil standards. Dibenzofuran is the only chemical for which TRC developed Method 2 soil standards, as presented in Table 1.

The following table shows the natural soil background concentration of the chemicals examined for the hot spot analysis, the maximum detected concentration of each of the chemicals, the average exposure point concentration for the 0 to 15 foot soil interval excluding the maximum detection, and the variance between the maximum concentration and the average concentration. Soils within the entire 0 to 15 foot depth interval will be equally accessible to construction workers should excavations be necessary at either of the exposure points.

Chemical	**"Natural" Soil Background Concentration (mg/kg)**	**Maximum Concentration (mg/kg)**	**Average Concentration Excluding Maximum (mg/kg)**	**Variance (Maximum versus Average Excluding Maximum)**
EP-1				
Benzo(a)anthracene	2	67	1.7	39-fold
Benzo(a)pyrene	2	69	4.1	17-fold
Benzo(b)fluoranthene	2	64	1.8	36-fold
Dibenz(a,h)anthracene	0.5	8.9	0.58	15-fold
Indeno(1,2,3-cd)pyrene	1	35	0.8	44-fold
Total PCBs	NA	49.2	3.4	14-fold
PCB TEQ	NA	1.8E-04	9.5E-05	2-fold
Arsenic	20	130	7.3	18-fold
Barium	50	1500	229	7-fold
Cadmium	2	224	12.6	18-fold
Chromium	30	441	39	11-fold
Lead	100	6780	875	8-fold
Mercury	0.3	109	0.5	218-fold
Nickel	20	1400	73.9	19-fold
Zinc	100	5300	293	18-fold
Diesel Range Organics	NA	3600	193	19-fold
EP-2				
Total PCBs	NA	26.6	7.1	4-fold
Arsenic	20	32	7.8	4-fold
Cadmium	2	18	2.4	8-fold
Chromium	30	122	18	7-fold
Lead	100	1900	1052	2-fold
Nickel	20	46	23.7	2-fold

As shown above, the maximum concentrations of the chemicals that exceeded MCP Method 1 soil standards in the 0 to 15 foot soil interval at each exposure point vary from the average 0 to 15 foot soil interval concentrations by less than 100-fold, except for mercury at EP-1. Therefore, mercury at location 108 Comp 2 was identified as a hot spot, as defined by the MCP, and evaluated separately. The data for detected chemicals at the 108 Comp 2 hot spot location are presented on Table 3.

Exposure Point Concentrations

Exposure point concentrations (EPCs) for soil were determined consistent with 310 CMR 40.0926 and supporting MassDEP guidance. An EPC is the measured or estimated amount of a constituent in the environmental medium of concern at the point of human contact. Based on MassDEP (1995) guidance, the EPCs for the environmental media typically correspond to the arithmetic mean of the reported results for each data set for areas of contiguous impacts over which people average their exposure. Therefore, arithmetic average concentrations have been primarily used as soil EPCs; however, in accordance with MCP requirements, in those instances where individual chemicals were present at concentrations greater than ten times applicable standards or where greater than 25-percent of the analytical results for an individual chemical exceeded an applicable standard, EPCs that represent the 95-percent upper confidence limit of the arithmetic mean were calculated using EPA's ProUCL software version 4.1.01 (EPA, 2006; 2011). The 95-percent upper confidence limit recommended by the ProUCL software was selected as the EPC in these cases. For small data sets or in cases with the arithmetic average concentration or the 95-percent upper confidence limit exceeded the maximum detected concentration, the maximum detected concentration was used as the EPC. EPCs are provided in Tables 1 and 2 for the 0 to 15 foot soil interval for EP-1 and EP-2, respectively. EPCs for the 108 Comp 2 hot spot are presented on Table 3.

Exposure Assumptions

Construction workers were quantitatively evaluated primarily using exposure assumptions provided in the MassDEP construction worker Shortform (MassDEP, 2008a). Exposure to construction workers could occur during excavations that expose impacted soil. Potential exposures to soil COPCs are assumed to occur 8 hours/day for 130 days/year. The exposure duration for non-cancer endpoints was averaged over 0.5 years (182 days). Construction workers are identified as adults (58 kg average body weight) involved in physical activities equivalent to an average inhalation rate of 20 cubic meters per day (m^3/day). Inhalation of fugitive dusts outdoors by construction workers was evaluated using a PM_{10} of 60 micrograms per cubic meter ($\mu g/m^3$) (MassDEP, 2008c). The incidental ingestion rate of soil was set at 100 mg/day. Dermal contact with soil COPCs was assumed via the face, hands, forearms, and feet (approximate surface area of 3,477 cm^2) using a soil adherence factor of 0.29 mg/cm^2. MassDEP's Construction Worker Shortform was used to evaluate soil exposures for this receptor. The specific equations used to calculate exposures are provided on the Shortforms presented in the Attachment.

Toxicity Values

Subchronic reference doses (RfDs) and reference concentrations (RfCs), used to evaluate non-carcinogenic health endpoints, slope factors (SFs) and unit risk (UR) values, used to evaluate carcinogenic effects, and relative absorption factors (RAFs) used in this risk characterization are the same as those values used by MassDEP in the development of the MCP numerical standards (MassDEP, 2008b), except for the following chemicals:

- GRO: toxicity values and RAFs for C9-C10 aromatics, as specified by MassDEP, were used as this is the most toxic fraction that may be present in a gasoline-range mixture.

- DRO: toxicity values and RAFs for C11- C22 aromatics, as specified by MassDEP, were used as this is the most toxic fraction that may be present in a diesel-range mixture.

- Dibenzofuran (carcinogen class D): a subchronic oral RfD (4E-03 mg/kg-day) provided by EPA's Superfund Technical Support Center was used (EPA, 2012); the RfC was calculated from the RfD assuming a body weight of 70 kg and an inhalation weight of 20 m^3/day; RAFs were calculated using default assumptions for SVOCs, as presented by MassDEP (1995).

RfDs, RfCs, SFs, URs and RAFs are provided on the Shortforms presented in the Attachment.

Risk Characterization

To characterize the risk of harm to construction workers from potential exposures, carcinogenic risks and non-carcinogenic hazards were estimated using the soil EPC for each chemical selected for evaluation at each exposure point. Risks and hazards associated with soil exposures were summed to the risks and hazards calculated in the Phase II risk characterization for shallow groundwater and trench air exposures to account for cumulative multi-media effects. The cumulative receptor risk values were compared to the MassDEP Risk Limits (Excess Lifetime Cancer Risk [ELCR] Limit of 1×10^{-5} and Non-Carcinogenic Hazard Index [HI] Risk Limit of 1) to assess whether a condition of "No Significant Risk" exists. If the cumulative HI exceeded the Risk Limit of 1, the cumulative HI was segregated by target organ, as described in MassDEP guidance (MassDEP, 1995). Each target organ HI was then compared to the Risk Limit of 1 to establish whether a condition of "No Significant Risk" exists at the Site.

The cumulative risks and hazards estimated for the construction worker at EP-1, EP-2 and the 108 Comp 2 hot spot are summarized in Table 4, assuming exposure to the 0 to 15 foot soil interval, shallow groundwater and trench air.

As shown on Table 4, a condition of No Significant Risk exists for the construction worker at EP-1 and the 108 Comp 2 hot spot. Because the 108 Comp 2 hot spot is associated with No Significant Risk and the mercury detection does not exceed its Upper Concentration Limit (UCL), removal of this location is not required. Though the cumulative HI exceeds 1 for the construction worker at EP-2 due to dermal contact with shallow groundwater (PCB Hazard Quotient [HQ] of 2), the HI associated with the soil exposure pathways is equal to 1 when target organs are segregated (lead HQ of 1 [nervous system target organ]; PCB HQ of 0.5 [immune system target organ]; arsenic HQ of 0.2 [skin target organ]). The HI greater than 1 for dermal contact with shallow groundwater will be re-evaluated through additional groundwater sampling, following the PCB soil removal activities. Therefore, these calculations confirm that the extent of the excavation, as contained in the RAM Plan will result in a condition of No Significant Risk for construction workers exposed to soil, based on default MassDEP exposure assumptions for this receptor.

Because the EP-2 construction worker HI exceeded 1 due to contact with PCBs in shallow groundwater, a one-day emergency utility worker calculation was performed to demonstrate that short-term excavation on an emergency basis can occur should groundwater PCB concentrations remain elevated for a period of time after the soil removal occurs. The one-day emergency utility worker calculations for soil and groundwater are presented in Attachment 2 and demonstrate that one-day excavation work does not pose a risk for workers.

These risk calculations will be updated and the conclusions confirmed once confirmation samples have been collected as part of remedy implementation.

TABLES/ATTACHMENTS

Table 1 – Summary Statistics for Soil Samples - 0 to 15 Foot Interval for EP-1
Table 2 – Summary Statistics for Soil Samples - 0 to 15 Foot Interval for EP-2
Table 3 – Summary of Soil Analytical Results for 108 Comp 2 Hot Spot
Table 4 – Summary of Construction Worker Risks and Hazards

Attachment 1 – Construction Worker Shortforms for EP-1, EP-2 and 108 Comp 2 Hot Spot
Attachment 2 – Emergency Utility Worker Shortform and Groundwater Spreadsheet for EP-2

REFERENCES

MassDEP, 1995. Massachusetts Department of Environmental Protection (MassDEP), 1995. Bureau of Waste Site Cleanup and Office of Research and Standards. Guidance for Disposal Site Risk Characterization In Support of the Massachusetts Contingency Plan. BWSC/ORS-95-141. July 1995.

MassDEP, 2002. Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil.Final Technical Update. May 2002.

MassDEP, 2007. Massachusetts Contingency Plan, 310 CMR 40.0000, effective date, December 14, 2007.

MassDEP, 2008a. Shortforms for Human Health Risk Assessment under the MCP. August 2008. http://www.mass.gov/dep/cleanup/compliance/shortform.zip.

MassDEP, 2008b Spreadsheets Detailing the Development of the MCP Numerical Standards. http://www.mass.gov/dep/cleanup/laws/mcpsprds.zip. February 19, 2008.

MassDEP, 2008c Characterization of Risks Due to Inhalation of Particulates by Construction Workers. Final Technical Update. July 2008.

EPA, 2006 ProUCL Version 4.0 Technical Guide. Prepared for USEPA by Lockheed Martin Environmental Services. April 2006. EPA/600/R04/079.

EPA, 2011 ProUCL version 4.1.01. July 2011. http://www.epa.gov/osp/hstl/tsc/software.htm

EPA, 2012 Provisional Peer Reviewed Toxicity Values for Dibenzofuran. http://hhpprtv.ornl.gov/issue_papers/Dibenzofuran.pdf

TABLES

Table 1
Summary Statistis for Soil Samples - 0 to 15 Foot Interval for EP-1
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	UCL*	Background	# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
VOCs																
(mg/kg)	Chlorobenzene	3.0	100	10,000	NA	34	1	2.9%	0.11	0.11	F2	0.023	0.13	3.5E-02	3.5E-02	Mean
	Ethylbenzene	500	500	10,000	NA	34	1	2.9%	0.084	0.084	F.5-10	0.023	0.13	3.4E-02	3.4E-02	Mean
	4-Methyl-2-pentanone	50	400	10,000	NA	34	2	5.9%	0.7	2	E.5-5	0.12	0.67	2.3E-01	2.3E-01	Mean
	Tetrachloroethene	10	30	10,000	NA	34	7	20.6%	0.11	1.7	E.5-8	0.023	0.13	1.3E-01	1.3E-01	Mean
	Toluene	500	500	10,000	NA	34	2	5.9%	0.3	0.35	D.5-2	0.023	0.13	4.9E-02	4.9E-02	Mean
	Trichloroethene	2	90	10,000	NA	34	1	2.9%	0.24	0.24	F2	0.023	0.13	3.8E-02	3.8E-02	Mean
VPH																
	Xylenes (total)	300	500	10,000	NA	34	1	2.9%	0.38	0.38	F.5-10	0.046	0.27	7.4E-02	7.4E-02	Mean
EPH																
	Dibenzofuran	10^	10^	NS	NA	22	14	63.6%	0.14	6.2	118 Ruggles Front Comp	0.06	0.35	9.9E-01	9.9E-01	Mean
	Acenaphthene	1,000	1,000	10,000	0.5	117	29	24.8%	0.06	33	101 Comp 5	0.054	0.88	6.1E-01	6.1E-01	Mean
	Acenaphthylene	600	10	10,000	0.5	116	39	33.6%	0.063	3.2	108 Comp 5	0.057	0.88	2.8E-01	2.8E-01	Mean
	Anthracene	1,000	1,000	10,000	1	117	64	54.7%	0.061	57	101 Comp 5	0.06	0.88	1.4E+00	1.4E+00	Mean
	Benzo(a)anthracene	7	7	3,000	2	119	100	84.0%	0.085	67	101 Comp 5	0.065	0.88	2.3E+00	2.3E+00	Mean
	Benzo(a)pyrene	2	2	300	2	119	103	86.6%	0.065	69	101 Comp 5	0.09	0.88	2.0E+00	4.7E+00	95% Chebyshev (Mean, Sd) UCL
	Benzo(b)fluoranthene	7	7	3,000	2	119	109	91.6%	0.066	64	101 Comp 5	0.18	0.88	2.3E+00	2.3E+00	Mean
	Benzo(g,h,i)perylene	1,000	1,000	10,000	1	118	90	76.3%	0.072	31	101 Comp 5	0.065	0.88	9.4E-01	9.4E-01	Mean
	Benzo(k)fluoranthene	70	70	10,000	1	118	75	63.6%	0.075	26	101 Comp 5	0.062	0.88	9.0E-01	9.0E-01	Mean
	Chrysene	70	70	10,000	2	118	103	87.3%	0.075	54	101 Comp 5	0.065	0.88	1.9E+00	1.9E+00	Mean
	Dibenz(a,h)anthracene	0.7	0.7	300	0.5	116	43	37.1%	0.062	8.9	101 Comp 5	0.058	0.88	3.1E-01	6.6E-01	95% Chebyshev (Mean, Sd) UCL
	Fluoranthene	1,000	1,000	10,000	4	120	114	95.0%	0.098	170	101 Comp 5	0.18	0.88	5.2E+00	5.2E+00	Mean
	Fluorene	1,000	1,000	10,000	1	117	36	30.8%	0.061	41	101 Comp 5	0.054	0.88	8.2E-01	8.2E-01	Mean
	Indeno(1,2,3-cd)pyrene	7	7	3,000	1	118	93	78.8%	0.074	35	101 Comp 5	0.065	0.88	1.1E+00	1.1E+00	Mean
	2-Methylnaphthalene	80	300	5,000	0.5	116	15	12.9%	0.079	6.3	118 Ruggles Front Comp	0.054	0.88	2.4E-01	2.4E-01	Mean
	Naphthalene	40	500	10,000	0.5	150	22	14.7%	0.057	17	101 Comp 5	0.023	0.88	5.2E-01	5.2E-01	Mean
	Phenanthrene	500	500	10,000	3	119	107	89.9%	0.082	180	101 Comp 5	0.065	0.88	5.2E+00	5.2E+00	Mean
	Pyrene	1,000	1,000	10,000	4	119	114	95.8%	0.11	52	101 Comp 5	0.18	0.88	3.7E+00	3.7E+00	Mean
PCBs																
	Total PCBs	2	2	100	NA	307	293	95.4%	0.04	49.2	SB-101-4D	0.0503	0.243	2.9E+00	3.6E+00	95% H-UCL
TEQ Summation																
	TEQs	2.0E-05	2.0E-05	3.0E-03	NA	20	20	100.0%	2.02E-05	1.8E-04	SB-108-1	--	--	7.6E-05	1.0E-04	95% Approximate Gamma UCL
Metals																
(mg/kg)	Antimony	20	20	300	1	14	1	7.1%	16	16	SB-111-10	2.75	3.5	2.5E+00	2.5E+00	Mean
	Arsenic	20	20	200	20	171	129	75.4%	1.65	130	SB-108-2	2.5	8.7	8.1E+00	8.1E+00	Mean
	Barium	1,000	1,000	10,000	50	171	171	100.0%	2.09	1500	SB-98-8	--	--	2.4E+02	2.4E+02	Mean
	Beryllium	100	100	2,000	0.4	14	3	21.4%	1.3	1.4	SB-111-3	0.275	0.35	4.0E-01	4.0E-01	Mean
	Cadmium	2	2	300	2	170	154	90.6%	0.28	224	101 Comp 2	0.25	1.82	6.4E+00	1.4E+01	95% Chebyshev (Mean, Sd) UCL
	Chromium	30	30	2,000	30	170	170	100.0%	4.1	441	101 Comp 1	--	--	2.8E+01	4.2E+01	95% Chebyshev (Mean, Sd) UCL
	Lead	300	300	3,000	100	171	171	100.0%	4.51	6780	101 Comp 3	--	--	6.5E+02	9.1E+02	95% Chebyshev (Mean, Sd) UCL
	Mercury	20	20	300	0.3	78	78	100.0%	0.058	2.7	98 Comp 3	--	--	5.0E-01	5.0E-01	Mean
	Nickel	20	20	7,000	20	107	107	100.0%	1.4	1400	SB-108-4	--	--	2.9E+01	8.6E+01	95% Chebyshev (Mean, Sd) UCL
	Selenium	400	400	8,000	0.5	73	27	37.0%	0.3525	19	SB-108-5	0.65	6.4	1.7E+00	1.7E+00	Mean
	Silver	100	100	2,000	0.6	72	12	16.7%	0.36	18	101 Comp 3	0.11	2.02	6.5E-01	6.5E-01	Mean
	Vanadium	600	600	10,000	30	14	14	100.0%	13	52	SB-101-5A	--	--	2.3E+01	2.3E+01	Mean
	Zinc	2,500	2,500	10,000	100	107	107	100.0%	10	5300	SB-101-5B	--	--	3.4E+02	3.4E+02	Mean
Total Petroleum Hydrocarbons																
(mg/kg)	Diesel Range Organics	1,000	1,000	10,000	NA	74	74	100.0%	12	3600	101 Comp 5	--	--	2.4E+02	2.4E+02	Mean
	Gasoline Range Organics	1,000	1,000	10,000	NA	25	17	68.0%	8.1	22.3	H4	3.7	11.9	9.9E+00	9.9E+00	Mean

Notes:

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

NS - No MassDEP standards exist for this analyte.

NA - Not applicable or not available.

VOCs - Volatile Organic Compounds.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

EPC - Exposure Point Concentration.

TEQ - Toxicity equivalents.

UCL* - Upper concentration limit.

UCL - Upper confidence limit.

* - Background Concentration for natural soil.

Table 2
Summary Statistics for Soil Samples - 0 to 15 Foot Interval for EP-2
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	UCL*	Background	# of Samples	# of Detects	Freq. of Detects	Min. of Detects (mg/kg)	Max. of Detects (mg/kg)	Location of Max. Detected	Min. of Non-Detects (mg/kg)	Max. of Non-Detects (mg/kg)	Mean Concentration (mg/kg)	EPC (mg/kg)	EPC Rationale
VOCs																
	Ethylbenzene	500	500	10,000	NA	1	1	100.0%	5.8	5.8	SB-190	--	--	5.8E+00	5.8E+00	Maximum of detects
	Toluene	500	500	10,000	NA	1	1	100.0%	0.949	0.949	SB-190	--	--	9.5E-01	9.5E-01	Maximum of detects
VPH																
	C5-C8 Aliphatics	100	100	5,000	NA	1	1	100.0%	518	518	SB-190	--	--	5.2E+02	5.2E+02	Maximum of detects
	C9-C12 Aliphatics	1,000	1,000	20,000	NA	1	1	100.0%	414	414	SB-190	--	--	4.1E+02	4.1E+02	Maximum of detects
	C9-C10 Aromatics	100	100	5,000	NA	1	1	100.0%	811	811	SB-190	--	--	8.1E+02	8.1E+02	Maximum of detects
	Benzene	30	30	9,000	NA	1	1	100.0%	3.41	3.41	SB-190	--	--	3.4E+00	3.4E+00	Maximum of detects
	Xylenes (total)	300	500	10,000	NA	1	1	100.0%	35.6	35.6	SB-190	--	--	3.6E+01	3.6E+01	Maximum of detects
EPH																
	C19-C36 Aliphatics	3,000	3,000	20,000	NA	1	1	100.0%	430	430	TP 102 B	--	--	4.3E+02	4.3E+02	Maximum of detects
	C11-C22 Aromatics	1,000	1,000	10,000	NA	1	1	100.0%	190	190	TP 102 B	--	--	1.9E+02	1.9E+02	Maximum of detects
	Acenaphthylene	600	10	10,000	0.5	12	2	16.7%	0.244	0.279	SB-194	0.172	9.795	5.5E-01	NA	Below background
	Anthracene	1,000	1,000	10,000	1	12	2	16.7%	0.341	0.413	SB-194	0.172	9.795	5.7E-01	NA	Below background
	Benzo(a)anthracene	7	7	3,000	2	12	4	33.3%	0.645	1.9	TP 102 B	0.172	9.795	8.3E-01	NA	Below background
	Benzo(a)pyrene	2	2	300	2	12	4	33.3%	0.467	1.6	TP 102 B	0.172	9.795	7.6E-01	NA	Below background
	Benzo(b)fluoranthene	7	7	3,000	2	12	4	33.3%	0.8	2.4	TP 102 B	0.172	9.795	9.1E-01	9.1E-01	Mean
	Benzo(g,h,i)perylene	1,000	1,000	10,000	1	12	4	33.3%	0.291	1.1	TP 102 B	0.172	9.795	6.5E-01	6.5E-01	Mean
	Benzo(k)fluoranthene	70	70	10,000	1	12	4	33.3%	0.278	0.86	TP 102 B	0.172	9.795	6.4E-01	NA	Below background
	Chrysene	70	70	10,000	2	12	4	33.3%	0.738	2.1	TP 102 B	0.172	9.795	8.8E-01	8.8E-01	Mean
	Fluoranthene	1,000	1,000	10,000	4	12	5	41.7%	0.221	4.2	TP 102 B	0.172	9.795	1.4E+00	1.4E+00	Mean
	Indeno(1,2,3-cd)pyrene	7	7	3,000	1	12	4	33.3%	0.333	1.3	TP 102 B	0.172	9.795	6.7E-01	6.7E-01	Mean
	2-Methylnaphthalene	80	300	5,000	0.5	12	1	8.3%	0.748	0.748	SB-194	0.172	9.795	5.7E-01	5.7E-01	Mean
	Naphthalene	40	500	10,000	0.5	12	3	25.0%	0.525	26.8575	SB-190	0.172	0.71	2.5E+00	2.5E+00	Mean
	Phenanthrene	500	500	10,000	3	12	5	41.7%	0.26	2.9	TP 102 B	0.172	9.795	1.1E+00	NA	Below background
	Pyrene	1,000	1,000	10,000	4	12	4	33.3%	0.943	4	TP 102 B	0.172	9.795	1.1E+00	NA	Below background
PCBs																
	Total PCBs	2	2	100	NA	33	28	84.8%	0.0762	26.6	SB-194	0.0509	0.0725	2.9E+00	7.7E+00	95% Chebyshev (Mean, Sd) UCL
Metals																
	Arsenic	20	20	200	20	23	15	65.2%	2.87	32	SB-187	2.5	3.4	8.9E+00	8.9E+00	Mean
	Barium	1,000	1,000	10,000	50	23	23	100.0%	12	670	SB-102-5C	--	--	2.6E+02	2.6E+02	Mean
	Beryllium	100	100	2,000	0.4	11	6	54.5%	0.31	0.93	SB-193	0.26	0.31	4.2E-01	4.2E-01	Mean
	Cadmium	2	2	300	2	23	17	73.9%	0.37	18	SB-102-4A	0.25	0.29	1.9E+00	3.1E+00	95% Approximate Gamma UCL
	Chromium	30	30	2,000	30	23	23	100.0%	2.93	122	SB-190	--	--	2.2E+01	2.2E+01	Mean
	Lead	300	300	3,000	100	23	23	100.0%	4.43	1900	SB-102-5A	--	--	6.2E+02	1.1E+03	95% Approximate Gamma UCL
	Mercury	20	20	300	0.3	11	7	63.6%	0.013	0.823	SB-187	0.013	0.025	2.0E-01	2.0E-01	Mean
	Nickel	20	20	7,000	20	23	23	100.0%	2.49	46	SB-102-11	--	--	1.8E+01	2.5E+01	95% Approximate Gamma UCL
	Silver	100	100	2,000	0.6	11	7	63.6%	0.62	9.48	SB-194	0.52	0.7	2.8E+00	2.8E+00	Mean
	Vanadium	600	600	10,000	30	11	10	90.9%	6.04	27.9	SB-193	5.15	5.15	1.6E+01	NA	Below background
	Zinc	2,500	2,500	10,000	100	23	23	100.0%	10.1	980	SB-102-4A	--	--	3.5E+02	3.5E+02	Mean

Notes:

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

NA - Not applicable or not available.

VOCs - Volatile Organic Compounds.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

EPC - Exposure Point Concentration.

UCL* - Upper concentration limit.

UCL - Upper confidence limit.

* - Background Concentration for natural soil.

Table 3
Summary of Soil Analytical Results for 108 Comp 2 Hot Spot
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	UCL*	Background	Sample ID: 108 Comp 2 Sample Depth (ft.): 3-6 Sample Date: 12/20/2005	EPC (mg/kg)	EPC Rationale
EPH								
	Acenaphthylene	600	10	10,000	0.5	0.069	NA	Below background
	Anthracene	1,000	1,000	10,000	1	0.098	NA	Below background
	Benzo(a)anthracene	7	7	3,000	2	0.37	NA	Below background
	Benzo(a)pyrene	2	2	300	2	0.35	NA	Below background
	Benzo(b)fluoranthene	7	7	3,000	2	0.53	NA	Below background
	Benzo(g,h,i)perylene	1,000	1,000	10,000	1	0.12	NA	Below background
	Benzo(k)fluoranthene	70	70	10,000	1	0.14	NA	Below background
	Chrysene	70	70	10,000	2	0.32	NA	Below background
	Fluoranthene	1,000	1,000	10,000	4	0.82	NA	Below background
	Indeno(1,2,3-cd)pyrene	7	7	3,000	1	0.14	NA	Below background
	Phenanthrene	500	500	10,000	3	0.4	NA	Below background
	Pyrene	1,000	1,000	10,000	4	0.68	NA	Below background
Metals								
	Arsenic	20	20	200	20	3.74	NA	Below background
	Barium	1,000	1,000	10,000	50	125	125	Maximum of detects
	Cadmium	2	2	300	2	1.34	NA	Below background
	Chromium	30	30	2,000	30	12.8	NA	Below background
	Lead	300	300	3,000	100	424	424	Maximum of detects
	Mercury	20	20	300	0.3	109	109	Maximum of detects
	Silver	100	100	2,000	0.6	2.87	2.87	Maximum of detects
Total Petroleum Hydrocarbons (mg/kg)	Diesel Range Organics	1,000	1,000	10,000	NA	36	36	Maximum of detects

Notes:

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

NA - Not applicable or not available.

EPH - Extractable Petroleum Hydrocarbons.

EPC - Exposure Point Concentration.

UCL* - Upper concentration limit.

* - Background Concentration for natural soil.

Table 4
Summary of Construction Worker Risks and Hazards
Acquired Residential Properties
New Bedford, Massachusetts

Exposure Point	Scenario/ Receptor	Exposure Media	Exposure Pathway	ELCR	HI	Major contributors to risk/hazard
EP-1	Construction Worker (5 days/week for 6 months)	0-15' Soil	Ingestion	4E-07	9E-01	
			Dermal	5E-07	3E-01	
			Dust Inhalation	2E-07	2E-01	
		Trench Air *	Inhalation	2E-11	8E-05	
		Shallow Groundwater *	Dermal	2E-09	1E-03	
			Total	1E-06	1E+00	
EP-1 (Hot Spot 108 Comp 2)	Construction Worker (5 days/week for 6 months)	0-15' Soil	Ingestion	N/A	8E-01	
			Dermal	N/A	3E-01	
			Dust Inhalation	N/A	5E-02	
		Trench Air *	Inhalation	2E-11	8E-05	
		Shallow Groundwater *	Dermal	2E-09	1E-03	
			Total	2E-09	1E+00	
EP-2	Construction Worker (5 days/week for 6 months)	0-15' Soil	Ingestion	2E-07	1E+00	(NC) PCBs (groundwater)
			Dermal	3E-07	5E-01	
			Dust Inhalation	9E-08	2E-01	
		Trench Air *	Inhalation	2E-11	8E-05	
		Shallow Groundwater *	Dermal	1E-06	**2E+00**	
			Total	2E-06	**4E+00**	
EP-2	Emergency Utility Worker (1 day)	0-15' Soil	Ingestion	5E-08	2E-01	
			Dermal	5E-08	1E-01	
			Dust Inhalation	2E-08	5E-02	
		Trench Air *	Inhalation	2E-11	8E-05	
		Shallow Groundwater	Dermal	6E-07	8E-01	
			Total	7E-07	1E+00	

Notes
Bolded values exceed a cancer risk of 1E-05 or a target organ HI of 1.
* - See the January 2012 Phase II CSA Risk Characterization for additional information
HI - Hazard Index
ELCR - Excess Lifetime Cancer Risk
(C) - Carcinogenic Risk
(NC) - Noncarcinogenic Risk
N/A - Not Applicable

ATTACHMENT 1

Construction Worker - Soil: Table CW-1 (EP-1; 0-15' bgs)
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 08-08

Vlookup Version v0808

ELCR (all chemicals) = 1E-06

HI (all chemicals) = 1E+00

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Chlorobenzene	3.5E-02						2.1E-07	2.2E-07	5.5E-09	6.5E-08	5.0E-07
Ethylbenzene	3.4E-02						4.2E-08	8.4E-08	1.1E-09	1.3E-09	1.3E-07
Methyl isobutyl ketone	2.3E-01						3.6E-07	3.6E-07	9.3E-09	2.9E-09	7.3E-07
Tetrachloroethylene	1.3E-01	5.8E-11	5.8E-11	1.5E-12	3.4E-13	1.2E-10	2.7E-05	2.7E-05	6.9E-07	1.2E-07	5.4E-05
Toluene	4.9E-02						7.6E-08	9.1E-08	2.0E-09	3.7E-10	1.7E-07
Trichloroethylene	3.8E-02	1.5E-11	1.6E-11	4.0E-13	4.2E-14	3.2E-11	9.5E-05	9.5E-05	2.5E-06	7.1E-07	1.9E-04
Xylenes (mixed isomers)	7.4E-02						4.5E-07	5.5E-07	1.2E-08	9.1E-09	1.0E-06
Dibenzofuran	9.9E-01						2.9E-04	5.5E-04	7.6E-06	2.6E-06	8.5E-04
Acenaphthene	6.1E-01						4.5E-07	1.3E-06	1.2E-08	4.5E-08	1.8E-06
Acenaphthylene	2.8E-01						4.1E-07	1.1E-06	1.1E-08	2.1E-08	1.6E-06
Anthracene	1.4E+00						2.1E-07	5.8E-07	5.4E-09	1.0E-07	8.9E-07
Benzo(a)anthracene	2.3E+00	4.1E-09	3.0E-09	1.1E-10	1.3E-10	7.3E-09	2.6E-06	1.9E-06	6.8E-08	1.7E-07	4.8E-06
Benzo(a)pyrene	4.7E+00	8.4E-08	6.0E-08	2.2E-09	2.6E-09	1.5E-07	5.4E-06	3.9E-06	1.4E-07	3.5E-07	9.8E-06
Benzo(b)fluoranthene	2.3E+00	4.2E-09	3.0E-09	1.1E-10	1.3E-10	7.4E-09	2.7E-06	1.9E-06	7.0E-08	1.7E-07	4.9E-06
Benzo(g,h,i)perylene	9.4E-01						1.4E-06	3.9E-06	3.6E-08	7.0E-08	5.4E-06
Benzo(k)fluoranthene	9.0E-01	1.6E-10	1.2E-10	4.2E-12	5.0E-12	2.9E-10	1.0E-06	7.4E-07	2.7E-08	6.7E-08	1.9E-06
Chrysene	1.9E+00	3.5E-10	2.5E-10	9.0E-12	1.1E-11	6.2E-10	2.2E-06	1.6E-06	5.8E-08	1.4E-07	4.0E-06
Dibenzo(a,h)anthracene	6.6E-01	1.2E-08	8.5E-09	3.1E-10	3.6E-10	2.1E-08	7.6E-07	5.4E-07	2.0E-08	4.9E-08	1.4E-06
Fluoranthene	5.2E+00						5.7E-06	1.6E-05	1.5E-07	3.8E-07	2.2E-05
Fluorene	8.2E-01						9.1E-07	2.5E-06	2.4E-08	6.1E-08	3.5E-06
Indeno(1,2,3-cd)pyrene	1.1E+00	2.0E-09	1.4E-09	5.1E-11	6.1E-11	3.5E-09	1.3E-06	9.1E-07	3.3E-08	8.2E-08	2.3E-06
Methylnaphthalene, 2-	2.4E-01						2.7E-05	7.6E-05	7.0E-07	1.8E-08	1.0E-04
Naphthalene	5.2E-01						1.2E-06	3.2E-06	3.0E-08	6.5E-06	1.1E-05
Phenanthrene	5.2E+00						7.6E-06	2.1E-05	2.0E-07	3.8E-07	3.0E-05
Pyrene	3.7E+00						5.4E-06	1.5E-05	1.4E-07	2.7E-07	2.1E-05
Polychlorinated biphenyls (PCBs)	3.6E+00	5.4E-08	1.0E-07	1.4E-09	9.5E-11	1.6E-07	7.5E-02	1.4E-01	2.0E-03	6.7E-03	2.3E-01
TCDD, 2,3,7,8- (equivalents)	1.0E-04	1.3E-07	2.6E-07	3.4E-09	8.7E-10	4.0E-07					
Antimony	2.5E+00						7.8E-03	7.9E-03	2.0E-04	9.4E-06	1.6E-02
Arsenic	8.1E+00	1.1E-07	3.2E-08	2.7E-09	9.2E-09	1.5E-07	3.3E-02	1.0E-02	8.6E-04	1.2E-01	1.6E-01
Barium	2.4E+02						4.2E-03	2.1E-03	1.1E-04	1.8E-03	8.2E-03
Beryllium	4.0E-01				2.6E-10	2.6E-10	9.9E-05	3.0E-05	2.6E-06	7.5E-04	8.8E-04
Cadmium	1.4E+01				6.6E-09	6.6E-09	3.4E-02	4.8E-02	8.9E-04	2.6E-02	1.1E-01
Chromium(VI)	4.2E+01				1.3E-07	1.3E-07	2.6E-03	2.3E-03	6.7E-05	5.2E-03	1.0E-02
Lead	9.1E+02						7.5E-01	9.1E-02	1.9E-02	3.4E-02	8.9E-01
Mercury	5.0E-01						2.0E-03	1.0E-03	5.3E-05	6.2E-05	3.2E-03
Nickel	8.6E+01				1.1E-08	1.1E-08	5.3E-03	1.9E-02	1.4E-04	3.2E-03	2.7E-02
Selenium	1.7E+00						4.2E-04	8.5E-06	1.1E-05	2.1E-05	4.6E-04

Construction Worker - Soil: Table CW-1 (EP-1; 0-15' bgs)
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 08-08

Vlookup Version v0808

ELCR (all chemicals) = 1E-06

HI (all chemicals) = 1E+00

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)		EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Silver		6.5E-01						1.6E-04	4.0E-04	4.2E-06	1.7E-04	7.4E-04
Vanadium		2.3E+01						3.2E-03	9.6E-04	8.2E-05	8.6E-04	5.1E-03
Zinc		3.4E+02						1.4E-03	2.8E-04	3.6E-05	9.0E-03	1.1E-02
Aromatics C11 to C22	DRO	2.4E+02						3.6E-04	1.0E-03	9.2E-06	1.8E-05	1.4E-03
Aromatics C9 to C10	GRO	9.9E+00						4.1E-05	2.0E-04	1.1E-06	7.4E-07	2.5E-04

Construction Worker - Soil: Table CW-2
Equations to Calculate Cancer Risk for Construction Worker

Vlookup Version v0808

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF_{oral}$$

$$LADD_{ing} = \frac{EPC * IR * RAF_{c\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF_{oral}$$

$$LADD_{derm} = \frac{EPC * SA * AF * RAF_{c\text{-}derm} * EF * ED_{derm} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$ELCR_{inh\text{-}GI} = LADD_{inh\text{-}GI} * CSF_{oral}$$

$$LADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{c\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Pulmonary Absorption

$$ELCR_{inh} = LADD_{inh} * CSF_{inhalation}$$

$$LADD = \frac{EPC * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{c\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM-specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{c\text{-}ing}$	OHM-specific	dimensionless
$RAF_{c\text{-}derm}$	OHM-specific	dimensionless
$RAF_{c\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{(lifetime)}$	25,550	days
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM_{10}	60	$µg/m^3$

Construction Worker - Soil: Table CW-3
Equations to Calculate Noncancer Risk for Construction Worker

Vlookup Version v0808

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{ing} = \frac{EPC * IR * RAF_{nc\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{dermal} = \frac{EPC * SA * AF * RAF_{nc\text{-}derm} * EF * ED_{dermal} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$HQ_{inh\text{-}GI} = \frac{ADD_{inh\text{-}GI}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{nc\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Pulmonary Absorption

$$HQ_{inh} = \frac{ADD}{RfD_{inhalation\text{-}subchronic}}$$

$$ADD_{inh} = \frac{EPC_{soil} * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{nc\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Parameter	Value	Units
RfD	OHM-specific	mg/kg-day
ADD	OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{nc\text{-}ing}$	OHM-specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM-specific	dimensionless
$RAF_{nc\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$EF_{cyanide}$	1	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
$EP_{cyanide}$	1.00	day
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{noncancer}$	182	days
$AP_{cyanide}$	1	day
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM10	60	$µg/m^3$

Cyanide can cause a significant health risk from a one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Construction Worker - Soil: Table CW-4
Definitions and Exposure Factors

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Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
HI - Hazard Index	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table CW-5.
RfD - Reference Dose	chemical specific	mg/kg-day	see Table CW-5.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-2.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-3.
EPC - Exposure Point Concentration	chemical specific	µg/L	see Table CW-1.
IR - Soil Ingestion Rate	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm).
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
RAF_{nc} - Relative Absorption Factor for Noncancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
EF - Exposure Frequency	0.714	event/day	5 events (days) / 7 events (days) in a week; MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38.
$EF_{cyanide}$ - Exposure Frequency for Cyanide Exposures	1.00	event/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$ED_{ing,derm}$ - Exposure Duration for ingestion or dermal exposure	1	day/event	
ED_{inh} - Exposure Duration for inhalation exposure	0.333	day/event	Represents 8 hours / event.
EP - Exposure Period	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW - Body Weight	58.0	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, Females, ages 18 - 25.
$AP_{(lifetime)}$ - Averaging Period for lifetime	25,550	days	Represents 70 years
$AP_{(noncancer)}$ - Averaging Period for noncancer	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
AF - Adherence Factor	0.29	mg/cm^2	MA DEP. 2002 Technical Update: Weighted Skin-Soil Adherence Factors. (http://www.mass.gov/dep/ors/orspubs.htm)
VR_{work} - Ventilation Rate during work (heavy exertion)	60	L/min	Table B-4 MADEP 1995 Guidance for Disposal Site Risk Characterization.
SA - Surface Area	3473	cm^2/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. 50th percentile for females. Appendix Table B-2.
$RCAF_{inh\text{-}gi}$ - Relative Concentration Adjustment Factor, gastrointestinal	1.5	dimensionless	MADEP 2007. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
$RCAF_{inh}$ - Relative Concentration Adjustment Factor, inhalation	0.5	dimensionless	MADEP 2002. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
PM10 - Concentration of PM_{10}	60	$µg/m^3$	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-11

Construction Worker - Soil: Table CW-5
Chemical-Specific Data

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Oil or Hazardous Material	Oral CSF $(mg/kg\text{-}day)^{-1}$	$RAF_{c\text{-}ing}$	$RAF_{c\text{-}derm}$	$RAF_{c\text{-}inh}$	Inhalation CSF $(mg/kg\text{-}day)^{-1}$	Subchronic Oral RfD mg/kg-day	Subchronic $RAF_{nc\text{-}ing}$	Subchronic $RAF_{nc\text{-}derm}$	Subchronic $RAF_{nc\text{-}inh}$	Subchronic Inhalation RfD
Chlorobenzene						2.0E-01	1	0.1	1	5.7E-03
Ethylbenzene						1.0E+00	1	0.2	1	2.9E-01
Methyl isobutyl ketone						8.0E-01	1	0.1	1	8.6E-01
Tetrachloroethylene	5.1E-02	1	0.1	1	3.5E-02	6.0E-03	1	0.1	1	1.1E-02
Toluene						8.0E-01	1	0.12	1	1.4E+00
Trichloroethylene	4.6E-02	1	0.1	1	1.4E-02	5.0E-04	1	0.1	1	5.7E-04
Xylenes (mixed isomers)						2.0E-01	1	0.12	1	8.6E-02
Dibenzofuran						4.0E-03	0.96	0.18	1	4.0E-03
Acenaphthene						6.0E-01	0.36	0.1	1	1.4E-01
Acenaphthylene						3.0E-01	0.36	0.1	1	1.4E-01
Anthracene						3.0E+00	0.36	0.1	1	1.4E-01
Benzo(a)anthracene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Benzo(a)pyrene	7.3E+00	0.28	0.02	1	7.3E+00	3.0E-01	0.28	0.02	1	1.4E-01
Benzo(b)fluoranthene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Benzo(g,h,i)perylene						3.0E-01	0.36	0.1	1	1.4E-01
Benzo(k)fluoranthene	7.3E-02	0.28	0.02	1	7.3E-02	3.0E-01	0.28	0.02	1	1.4E-01
Chrysene	7.3E-02	0.28	0.02	1	7.3E-02	3.0E-01	0.28	0.02	1	1.4E-01
Dibenzo(a,h)anthracene	7.3E+00	0.28	0.02	1	7.3E+00	3.0E-01	0.28	0.02	1	1.4E-01
Fluoranthene						4.0E-01	0.36	0.1	1	1.4E-01
Fluorene						4.0E-01	0.36	0.1	1	1.4E-01
Indeno(1,2,3-cd)pyrene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Methylnaphthalene, 2-						4.0E-03	0.36	0.1	1	1.4E-01
Naphthalene						2.0E-01	0.36	0.1	1	8.6E-04
Phenanthrene						3.0E-01	0.36	0.1	1	1.4E-01
Pyrene						3.0E-01	0.36	0.1	1	1.4E-01
Polychlorinated biphenyls (PCBs)	2.0E+00	0.85	0.16	1	3.5E-01	5.0E-05	0.85	0.16	1	5.7E-06
TCDD, 2,3,7,8- (equivalents)	1.5E+05	1	0.2	1	1.2E+05					
Antimony						4.0E-04	1	0.1	1	2.9E-03
Arsenic	1.5E+00	1	0.03	1	1.5E+01	3.0E-04	1	0.03	1	7.1E-07
Barium						7.0E-02	1	0.05	1	1.4E-03
Beryllium					8.4E+00	5.0E-03	1	0.03	1	5.7E-06
Cadmium					6.3E+00	5.0E-04	1	0.14	1	5.7E-06
Chromium(VI)					4.2E+01	2.0E-02	1	0.09	1	8.6E-05
Lead						7.5E-04	0.5	0.006	1	2.9E-04
Mercury						3.0E-04	1	0.05	1	8.6E-05
Nickel					1.7E+00	2.0E-02	1	0.35	1	2.9E-04
Selenium						5.0E-03	1	0.002	1	8.6E-04
Silver						5.0E-03	1	0.25	1	4.0E-05
Vanadium						9.0E-03	1	0.03	1	2.9E-04
Zinc						3.0E-01	1	0.02	1	4.0E-04
Aromatics C11 to C22						3.0E-01	0.36	0.1	1	1.4E-01
Aromatics C9 to C10						3.0E-01	1	0.5	1	1.4E-01

Construction Worker - Soil: Table CW-1 (EP-2; 0-15' bgs)
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 08-08

Vlookup Version v0808

ELCR (all chemicals) = 6E-07

HI (all chemicals) = 2E+00

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Ethylbenzene	5.8E+00						7.1E-06	1.4E-05	1.9E-07	2.2E-07	2.2E-05
Toluene	9.5E-01						1.5E-06	1.8E-06	3.8E-08	7.1E-09	3.3E-06
Aliphatics C5 to C8	5.2E+02						1.6E-03	1.6E-02	4.1E-05	9.6E-05	1.8E-02
Aliphatics C9 to C12	4.1E+02						5.1E-04	2.6E-03	1.3E-05	2.6E-05	3.1E-03
Aromatics C9 to C10	8.1E+02						3.3E-03	1.7E-02	8.6E-05	6.0E-05	2.0E-02
Benzene	3.4E+00	1.6E-09	1.3E-09	4.3E-11	7.1E-12	3.0E-09	4.2E-04	3.4E-04	1.1E-05	1.4E-06	7.7E-04
Xylenes (mixed isomers)	3.6E+01						2.2E-04	2.6E-04	5.7E-06	4.4E-06	4.9E-04
Aliphatics C19 to C36	4.3E+02						8.8E-05	8.9E-05	2.3E-06		1.8E-04
Aromatics C11 to C22	1.9E+02						2.8E-04	7.9E-04	7.3E-06	1.4E-05	1.1E-03
Benzo(b)fluoranthene	9.1E-01	1.6E-09	1.2E-09	4.2E-11	5.0E-11	2.9E-09	1.0E-06	7.5E-07	2.7E-08	6.8E-08	1.9E-06
Benzo(g,h,i)perylene	6.5E-01						9.7E-07	2.7E-06	2.5E-08	4.9E-08	3.7E-06
Chrysene	8.8E-01	1.6E-10	1.1E-10	4.1E-12	4.8E-12	2.8E-10	1.0E-06	7.2E-07	2.6E-08	6.5E-08	1.8E-06
Fluoranthene	1.4E+00						1.5E-06	4.2E-06	3.9E-08	1.0E-07	5.9E-06
Indeno(1,2,3-cd)pyrene	6.7E-01	1.2E-09	8.7E-10	3.1E-11	3.7E-11	2.1E-09	7.8E-07	5.6E-07	2.0E-08	5.0E-08	1.4E-06
Methylnaphthalene, 2-	5.7E-01						6.4E-05	1.8E-04	1.6E-06	4.3E-08	2.4E-04
Naphthalene	2.5E+00						5.5E-06	1.5E-05	1.4E-07	3.1E-05	5.2E-05
Polychlorinated biphenyls (PCBs)	7.7E+00	1.1E-07	2.2E-07	3.0E-09	2.0E-10	3.3E-07	1.6E-01	3.0E-01	4.2E-03	1.4E-02	4.8E-01
Arsenic	8.9E+00	1.2E-07	3.5E-08	3.0E-09	1.0E-08	1.6E-07	3.6E-02	1.1E-02	9.4E-04	1.3E-01	1.8E-01
Barium	2.6E+02						4.5E-03	2.3E-03	1.2E-04	1.9E-03	8.8E-03
Beryllium	4.2E-01				2.7E-10	2.7E-10	1.0E-04	3.1E-05	2.7E-06	7.8E-04	9.1E-04
Cadmium	3.1E+00				1.5E-09	1.5E-09	7.6E-03	1.1E-02	2.0E-04	5.8E-03	2.4E-02
Chromium(VI)	2.2E+01				7.2E-08	7.2E-08	1.4E-03	1.3E-03	3.6E-05	2.8E-03	5.5E-03
Lead	1.1E+03						8.9E-01	1.1E-01	2.3E-02	4.1E-02	1.1E+00
Mercury	2.0E-01						8.4E-04	4.2E-04	2.2E-05	2.5E-05	1.3E-03
Nickel	2.5E+01				3.1E-09	3.1E-09	1.5E-03	5.4E-03	3.9E-05	9.2E-04	7.8E-03
Silver	2.8E+00						7.0E-04	1.8E-03	1.8E-05	7.6E-04	3.2E-03
Zinc	3.5E+02						1.5E-03	2.9E-04	3.8E-05	9.4E-03	1.1E-02

Construction Worker - Soil: Table CW-2
Equations to Calculate Cancer Risk for Construction Worker

Vlookup Version v0808

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF_{oral}$$

$$LADD_{ing} = \frac{EPC * IR * RAF_{c\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF_{oral}$$

$$LADD_{derm} = \frac{EPC * SA * AF * RAF_{c\text{-}derm} * EF * ED_{derm} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$ELCR_{inh\text{-}GI} = LADD_{inh\text{-}GI} * CSF_{oral}$$

$$LADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{c\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Pulmonary Absorption

$$ELCR_{inh} = LADD_{inh} * CSF_{inhalation}$$

$$LADD = \frac{EPC * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{c\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM-specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{c\text{-}ing}$	OHM-specific	dimensionless
$RAF_{c\text{-}derm}$	OHM-specific	dimensionless
$RAF_{c\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{(lifetime)}$	25,550	days
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM_{10}	60	$µg/m^3$

Construction Worker - Soil: Table CW-3
Equations to Calculate Noncancer Risk for Construction Worker

Vlookup Version v0808

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{ing} = \frac{EPC * IR * RAF_{nc\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{dermal} = \frac{EPC * SA * AF * RAF_{nc\text{-}derm} * EF * ED_{dermal} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$HQ_{inh\text{-}GI} = \frac{ADD_{inh\text{-}GI}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{nc\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Pulmonary Absorption

$$HQ_{inh} = \frac{ADD}{RfD_{inhalation\text{-}subchronic}}$$

$$ADD_{inh} = \frac{EPC_{soil} * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{nc\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Parameter	Value	Units
RfD	OHM-specific	mg/kg-day
ADD	OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{nc\text{-}ing}$	OHM-specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM-specific	dimensionless
$RAF_{nc\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$EF_{cyanide}$	1	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
$EP_{cyanide}$	1.00	day
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{noncancer}$	182	days
$AP_{cyanide}$	1	day
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM10	60	$µg/m^3$

Cyanide can cause a significant health risk from a one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Construction Worker - Soil: Table CW-4
Definitions and Exposure Factors

Vlookup Version v0808

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
HI - Hazard Index	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table CW-5.
RfD - Reference Dose	chemical specific	mg/kg-day	see Table CW-5.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-2.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-3.
EPC - Exposure Point Concentration	chemical specific	µg/L	see Table CW-1.
IR - Soil Ingestion Rate	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm).
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
RAF_{nc} - Relative Absorption Factor for Noncancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
EF - Exposure Frequency	0.714	event/day	5 events (days) / 7 events (days) in a week; MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38.
$EF_{cyanide}$ - Exposure Frequency for Cyanide Exposures	1.00	event/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$ED_{ing,derm}$ - Exposure Duration for ingestion or dermal exposure	1	day/event	
ED_{inh} - Exposure Duration for inhalation exposure	0.333	day/event	Represents 8 hours / event.
EP - Exposure Period	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW - Body Weight	58.0	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, Females, ages 18 - 25.
$AP_{(lifetime)}$ - Averaging Period for lifetime	25,550	days	Represents 70 years
$AP_{(noncancer)}$ - Averaging Period for noncancer	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
AF - Adherence Factor	0.29	mg/cm^2	MA DEP. 2002 Technical Update: Weighted Skin-Soil Adherence Factors. (http://www.mass.gov/dep/ors/orspubs.htm)
VR_{work} - Ventilation Rate during work (heavy exertion)	60	L/min	Table B-4 MADEP 1995 Guidance for Disposal Site Risk Characterization.
SA - Surface Area	3473	cm^2/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. 50th percentile for females. Appendix Table B-2.
$RCAF_{inh\text{-}gi}$ - Relative Concentration Adjustment Factor, gastrointestinal	1.5	dimensionless	MADEP 2007. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
$RCAF_{inh}$ - Relative Concentration Adjustment Factor, inhalation	0.5	dimensionless	MADEP 2002. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
PM10 - Concentration of PM_{10}	60	$\mu g/m^3$	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-11

Construction Worker - Soil: Table CW-5
Chemical-Specific Data

Vlookup Version v0808

Oil or Hazardous Material	Oral CSF $(mg/kg\text{-}day)^{-1}$	$RAF_{c\text{-}ing}$	$RAF_{c\text{-}derm}$	$RAF_{c\text{-}inh}$	Inhalation CSF $(mg/kg\text{-}day)^{-1}$	Subchronic Oral RfD mg/kg-day	Subchronic $RAF_{nc\text{-}ing}$	Subchronic $RAF_{nc\text{-}derm}$	Subchronic $RAF_{nc\text{-}inh}$	Subchronic Inhalation RfD
Ethylbenzene						1.0E+00	1	0.2	1	2.9E-01
Toluene						8.0E-01	1	0.12	1	1.4E+00
Aliphatics C5 to C8						4.0E-01	1	1	1	5.7E-02
Aliphatics C9 to C12						1.0E+00	1	0.5	1	1.7E-01
Aromatics C9 to C10						3.0E-01	1	0.5	1	1.4E-01
Benzene	5.5E-02	1	0.08	1	2.7E-02	1.0E-02	1	0.08	1	2.6E-02
Xylenes (mixed isomers)						2.0E-01	1	0.12	1	8.6E-02
Aliphatics C19 to C36						6.0E+00	1	0.1		
Aromatics C11 to C22						3.0E-01	0.36	0.1	1	1.4E-01
Benzo(b)fluoranthene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Benzo(g,h,i)perylene						3.0E-01	0.36	0.1	1	1.4E-01
Chrysene	7.3E-02	0.28	0.02	1	7.3E-02	3.0E-01	0.28	0.02	1	1.4E-01
Fluoranthene						4.0E-01	0.36	0.1	1	1.4E-01
Indeno(1,2,3-cd)pyrene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Methylnaphthalene, 2-						4.0E-03	0.36	0.1	1	1.4E-01
Naphthalene						2.0E-01	0.36	0.1	1	8.6E-04
Polychlorinated biphenyls (PCBs)	2.0E+00	0.85	0.16	1	3.5E-01	5.0E-05	0.85	0.16	1	5.7E-06
Arsenic	1.5E+00	1	0.03	1	1.5E+01	3.0E-04	1	0.03	1	7.1E-07
Barium						7.0E-02	1	0.05	1	1.4E-03
Beryllium					8.4E+00	5.0E-03	1	0.03	1	5.7E-06
Cadmium					6.3E+00	5.0E-04	1	0.14	1	5.7E-06
Chromium(VI)					4.2E+01	2.0E-02	1	0.09	1	8.6E-05
Lead						7.5E-04	0.5	0.006	1	2.9E-04
Mercury						3.0E-04	1	0.05	1	8.6E-05
Nickel					1.7E+00	2.0E-02	1	0.35	1	2.9E-04
Silver						5.0E-03	1	0.25	1	4.0E-05
Zinc						3.0E-01	1	0.02	1	4.0E-04

Construction Worker - Soil: Table CW-1 (EP-1 Hot Spot; 0-15' bgs)
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 08-08

Vlookup Version v0808

ELCR (all chemicals) =

HI (all chemicals) = 1E+00

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)		EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Barium		1.3E+02						2.2E-03	1.1E-03	5.7E-05	9.3E-04	4.3E-03
Lead		4.2E+02						3.5E-01	4.2E-02	9.0E-03	1.6E-02	4.2E-01
Mercury		1.1E+02						4.5E-01	2.3E-01	1.2E-02	1.4E-02	7.0E-01
Silver		2.9E+00						7.1E-04	1.8E-03	1.8E-05	7.6E-04	3.3E-03
Aromatics C11 to C22	DRO	3.6E+01						5.3E-05	1.5E-04	1.4E-06	2.7E-06	2.1E-04

Construction Worker - Soil: Table CW-2
Equations to Calculate Cancer Risk for Construction Worker

Vlookup Version v0808

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF_{oral}$$

$$LADD_{ing} = \frac{EPC * IR * RAF_{c\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF_{oral}$$

$$LADD_{derm} = \frac{EPC * SA * AF * RAF_{c\text{-}derm} * EF * ED_{derm} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$ELCR_{inh\text{-}GI} = LADD_{inh\text{-}GI} * CSF_{oral}$$

$$LADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{c\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Pulmonary Absorption

$$ELCR_{inh} = LADD_{inh} * CSF_{inhalation}$$

$$LADD = \frac{EPC * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{c\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM-specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{c\text{-}ing}$	OHM-specific	dimensionless
$RAF_{c\text{-}derm}$	OHM-specific	dimensionless
$RAF_{c\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{(lifetime)}$	25,550	days
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM_{10}	60	$µg/m^3$

Construction Worker - Soil: Table CW-3
Equations to Calculate Noncancer Risk for Construction Worker

Vlookup Version v0808

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{ing} = \frac{EPC * IR * RAF_{nc\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{dermal} = \frac{EPC * SA * AF * RAF_{nc\text{-}derm} * EF * ED_{dermal} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$HQ_{inh\text{-}GI} = \frac{ADD_{inh\text{-}GI}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{nc\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Pulmonary Absorption

$$HQ_{inh} = \frac{ADD}{RfD_{inhalation\text{-}subchronic}}$$

$$ADD_{inh} = \frac{EPC_{soil} * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{nc\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Parameter	Value	Units
RfD	OHM-specific	mg/kg-day
ADD	OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{nc\text{-}ing}$	OHM-specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM-specific	dimensionless
$RAF_{nc\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$EF_{cyanide}$	1	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
$EP_{cyanide}$	1.00	day
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{noncancer}$	182	days
$AP_{cyanide}$	1	day
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM10	60	$µg/m^3$

Cyanide can cause a significant health risk from a one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Construction Worker - Soil: Table CW-4
Definitions and Exposure Factors

Vlookup Version v0808

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
HI - Hazard Index	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table CW-5.
RfD - Reference Dose	chemical specific	mg/kg-day	see Table CW-5.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-2.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-3.
EPC - Exposure Point Concentration	chemical specific	µg/L	see Table CW-1.
IR - Soil Ingestion Rate	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm).
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
RAF_{nc} - Relative Absorption Factor for Noncancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
EF - Exposure Frequency	0.714	event/day	5 events (days) / 7 events (days) in a week; MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38.
$EF_{cyanide}$ - Exposure Frequency for Cyanide Exposures	1.00	event/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$ED_{ing,derm}$ - Exposure Duration for ingestion or dermal exposure	1	day/event	
ED_{inh} - Exposure Duration for inhalation exposure	0.333	day/event	Represents 8 hours / event.
EP - Exposure Period	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW - Body Weight	58.0	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, Females, ages 18 - 25.
$AP_{(lifetime)}$ - Averaging Period for lifetime	25,550	days	Represents 70 years
$AP_{(noncancer)}$ - Averaging Period for noncancer	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
AF - Adherence Factor	0.29	mg/cm^2	MA DEP. 2002 Technical Update: Weighted Skin-Soil Adherence Factors. (http://www.mass.gov/dep/ors/orspubs.htm)
VR_{work} - Ventilation Rate during work (heavy exertion)	60	L/min	Table B-4 MADEP 1995 Guidance for Disposal Site Risk Characterization.
SA - Surface Area	3473	cm^2/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. 50th percentile for females. Appendix Table B-2.
$RCAF_{inh\text{-}gi}$ - Relative Concentration Adjustment Factor, gastrointestinal	1.5	dimensionless	MADEP 2007. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
$RCAF_{inh}$ - Relative Concentration Adjustment Factor, inhalation	0.5	dimensionless	MADEP 2002. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
PM10 - Concentration of PM_{10}	60	$\mu g/m^3$	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-11

Construction Worker - Soil: Table CW-5
Chemical-Specific Data

Vlookup Version v0808

Oil or Hazardous Material	Oral CSF $(mg/kg\text{-}day)^{-1}$	$RAF_{c\text{-}ing}$	$RAF_{c\text{-}derm}$	$RAF_{c\text{-}inh}$	Inhalation CSF $(mg/kg\text{-}day)^{-1}$	Subchronic Oral RfD mg/kg-day	Subchronic $RAF_{nc\text{-}ing}$	Subchronic $RAF_{nc\text{-}derm}$	Subchronic $RAF_{nc\text{-}inh}$	Subchronic Inhalation RfD
Barium						7.0E-02	1	0.05	1	1.4E-03
Lead						7.5E-04	0.5	0.006	1	2.9E-04
Mercury						3.0E-04	1	0.05	1	8.6E-05
Silver						5.0E-03	1	0.25	1	4.0E-05
Aromatics C11 to C22						3.0E-01	0.36	0.1	1	1.4E-01

ATTACHMENT 2

Emergency Utility Worker - Soil: Table CW-1 (EP-2; 0-15' bgs) (1 day)
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 08-08

Vlookup Version v0808

ELCR (all chemicals) = 1E-07

HI (all chemicals) = 4E-01

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Ethylbenzene	5.8E+00						1.4E-06	2.9E-06	3.7E-08	4.3E-08	4.4E-06
Toluene	9.5E-01						2.9E-07	3.5E-07	7.6E-09	1.4E-09	6.5E-07
Aliphatics C5 to C8	5.2E+02						3.2E-04	3.2E-03	8.3E-06	1.9E-05	3.6E-03
Aliphatics C9 to C12	4.1E+02						1.0E-04	5.1E-04	2.6E-06	5.1E-06	6.2E-04
Aromatics C9 to C10	8.1E+02						6.7E-04	3.4E-03	1.7E-05	1.2E-05	4.0E-03
Benzene	3.4E+00	3.3E-10	2.7E-10	8.5E-12	1.4E-12	6.0E-10	8.4E-05	6.8E-05	2.2E-06	2.8E-07	1.5E-04
Xylenes (mixed isomers)	3.6E+01						4.4E-05	5.3E-05	1.1E-06	8.8E-07	9.9E-05
Aliphatics C19 to C36	4.3E+02						1.8E-05	1.8E-05	4.6E-07		3.6E-05
Aromatics C11 to C22	1.9E+02						5.6E-05	1.6E-04	1.5E-06	2.8E-06	2.2E-04
Benzo(b)fluoranthene	9.1E-01	3.3E-10	2.4E-10	8.5E-12	1.0E-11	5.8E-10	2.1E-07	1.5E-07	5.4E-09	1.4E-08	3.8E-07
Benzo(g,h,i)perylene	6.5E-01						1.9E-07	5.4E-07	5.0E-09	9.7E-09	7.5E-07
Chrysene	8.8E-01	3.1E-11	2.3E-11	8.1E-13	9.7E-13	5.6E-11	2.0E-07	1.4E-07	5.2E-09	1.3E-08	3.6E-07
Fluoranthene	1.4E+00						3.0E-07	8.4E-07	7.8E-09	2.0E-08	1.2E-06
Indeno(1,2,3-cd)pyrene	6.7E-01	2.4E-10	1.7E-10	6.3E-12	7.5E-12	4.3E-10	1.6E-07	1.1E-07	4.0E-09	1.0E-08	2.8E-07
Methylnaphthalene, 2-	5.7E-01						1.3E-05	3.6E-05	3.3E-07	8.6E-09	4.9E-05
Naphthalene	2.5E+00						1.1E-06	3.1E-06	2.8E-08	6.2E-06	1.0E-05
Polychlorinated biphenyls (PCBs)	7.7E+00	2.3E-08	4.3E-08	5.9E-10	4.1E-11	6.7E-08	3.2E-02	6.1E-02	8.3E-04	2.9E-03	9.7E-02
Arsenic	8.9E+00	2.3E-08	7.0E-09	6.0E-10	2.0E-09	3.3E-08	7.3E-03	2.2E-03	1.9E-04	2.6E-02	3.6E-02
Barium	2.6E+02						9.0E-04	4.6E-04	2.3E-05	3.8E-04	1.8E-03
Beryllium	4.2E-01				5.3E-11	5.3E-11	2.1E-05	6.2E-06	5.3E-07	1.6E-04	1.8E-04
Cadmium	3.1E+00				3.0E-10	3.0E-10	1.5E-03	2.2E-03	4.0E-05	1.2E-03	4.9E-03
Chromium(VI)	2.2E+01				1.4E-08	1.4E-08	2.8E-04	2.5E-04	7.2E-06	5.6E-04	1.1E-03
Lead	1.1E+03						1.8E-01	2.2E-02	4.6E-03	8.1E-03	2.1E-01
Mercury	2.0E-01						1.7E-04	8.4E-05	4.3E-06	5.1E-06	2.6E-04
Nickel	2.5E+01				6.3E-10	6.3E-10	3.0E-04	1.1E-03	7.9E-06	1.8E-04	1.6E-03
Silver	2.8E+00						1.4E-04	3.5E-04	3.6E-06	1.5E-04	6.5E-04
Zinc	3.5E+02						2.9E-04	5.9E-05	7.5E-06	1.9E-03	2.2E-03

Construction Worker - Soil: Table CW-2
Equations to Calculate Cancer Risk for Construction Worker

Vlookup Version v0808

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF_{oral}$$

$$LADD_{ing} = \frac{EPC * IR * RAF_{c\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF_{oral}$$

$$LADD_{derm} = \frac{EPC * SA * AF * RAF_{c\text{-}derm} * EF * ED_{derm} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$ELCR_{inh\text{-}GI} = LADD_{inh\text{-}GI} * CSF_{oral}$$

$$LADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{c\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Pulmonary Absorption

$$ELCR_{inh} = LADD_{inh} * CSF_{inhalation}$$

$$LADD = \frac{EPC * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{c\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM-specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{c\text{-}ing}$	OHM-specific	dimensionless
$RAF_{c\text{-}derm}$	OHM-specific	dimensionless
$RAF_{c\text{-}inh}$	OHM-specific	dimensionless
EF	0.143	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{(lifetime)}$	25,550	days
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM_{10}	60	$µg/m^3$

Construction Worker - Soil: Table CW-3
Equations to Calculate Noncancer Risk for Construction Worker

Vlookup Version v0808

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{ing} = \frac{EPC * IR * RAF_{nc\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{dermal} = \frac{EPC * SA * AF * RAF_{nc\text{-}derm} * EF * ED_{dermal} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$HQ_{inh\text{-}GI} = \frac{ADD_{inh\text{-}GI}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{nc\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Pulmonary Absorption

$$HQ_{inh} = \frac{ADD}{RfD_{inhalation\text{-}subchronic}}$$

$$ADD_{inh} = \frac{EPC_{soil} * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{nc\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Parameter	Value	Units
RfD	OHM-specific	mg/kg-day
ADD	OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{nc\text{-}ing}$	OHM-specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM-specific	dimensionless
$RAF_{nc\text{-}inh}$	OHM-specific	dimensionless
EF	0.143	event/day
$EF_{cyanide}$	1	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
$EP_{cyanide}$	1.00	day
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{noncancer}$	182	days
$AP_{cyanide}$	1	day
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM10	60	$µg/m^3$

Cyanide can cause a significant health risk from a one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Construction Worker - Soil: Table CW-4
Definitions and Exposure Factors

Vlookup Version v0808

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
HI - Hazard Index	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table CW-5.
RfD - Reference Dose	chemical specific	mg/kg-day	see Table CW-5.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-2.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-3.
EPC - Exposure Point Concentration	chemical specific	µg/L	see Table CW-1.
IR - Soil Ingestion Rate	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm).
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
RAF_{nc} - Relative Absorption Factor for Noncancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
EF - Exposure Frequency	0.143	event/day	1 events (days) / 7 events (days) in a week;
$EF_{cyanide}$ - Exposure Frequency for Cyanide Exposures	1.00	event/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$ED_{ing,derm}$ - Exposure Duration for ingestion or dermal exposure	1	day/event	
ED_{inh} - Exposure Duration for inhalation exposure	0.333	day/event	Represents 8 hours / event.
EP - Exposure Period	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW - Body Weight	58.0	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, Females, ages 18 - 25.
$AP_{(lifetime)}$ - Averaging Period for lifetime	25,550	days	Represents 70 years
$AP_{(noncancer)}$ - Averaging Period for noncancer	182	days	6 months; MADEP 1995 Guidance for Disposal Site Risk Characterization.
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
AF - Adherence Factor	0.29	mg/cm^2	MA DEP. 2002 Technical Update: Weighted Skin-Soil Adherence Factors. (http://www.mass.gov/dep/ors/orspubs.htm)
VR_{work} - Ventilation Rate during work (heavy exertion)	60	L/min	Table B-4 MADEP 1995 Guidance for Disposal Site Risk Characterization.
SA - Surface Area	3473	cm^2/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. 50th percentile for females. Appendix Table B-2.
$RCAF_{inh\text{-}gi}$ - Relative Concentration Adjustment Factor, gastrointestinal	1.5	dimensionless	MADEP 2007. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
$RCAF_{inh}$ - Relative Concentration Adjustment Factor, inhalation	0.5	dimensionless	MADEP 2002. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
PM10 - Concentration of PM_{10}	60	$µg/m^3$	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-11

Construction Worker - Soil: Table CW-5
Chemical-Specific Data

Vlookup Version v0808

Oil or Hazardous Material	Oral CSF $(mg/kg\text{-}day)^{-1}$	$RAF_{c\text{-}ing}$	$RAF_{c\text{-}derm}$	$RAF_{c\text{-}inh}$	Inhalation CSF $(mg/kg\text{-}day)^{-1}$	Subchronic Oral RfD mg/kg-day	Subchronic $RAF_{nc\text{-}ing}$	Subchronic $RAF_{nc\text{-}derm}$	Subchronic $RAF_{nc\text{-}inh}$	Subchronic Inhalation RfD
Ethylbenzene						1.0E+00	1	0.2	1	2.9E-01
Toluene						8.0E-01	1	0.12	1	1.4E+00
Aliphatics C5 to C8						4.0E-01	1	1	1	5.7E-02
Aliphatics C9 to C12						1.0E+00	1	0.5	1	1.7E-01
Aromatics C9 to C10						3.0E-01	1	0.5	1	1.4E-01
Benzene	5.5E-02	1	0.08	1	2.7E-02	1.0E-02	1	0.08	1	2.6E-02
Xylenes (mixed isomers)						2.0E-01	1	0.12	1	8.6E-02
Aliphatics C19 to C36						6.0E+00	1	0.1		
Aromatics C11 to C22						3.0E-01	0.36	0.1	1	1.4E-01
Benzo(b)fluoranthene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Benzo(g,h,i)perylene						3.0E-01	0.36	0.1	1	1.4E-01
Chrysene	7.3E-02	0.28	0.02	1	7.3E-02	3.0E-01	0.28	0.02	1	1.4E-01
Fluoranthene						4.0E-01	0.36	0.1	1	1.4E-01
Indeno(1,2,3-cd)pyrene	7.3E-01	0.28	0.02	1	7.3E-01	3.0E-01	0.28	0.02	1	1.4E-01
Methylnaphthalene, 2-						4.0E-03	0.36	0.1	1	1.4E-01
Naphthalene						2.0E-01	0.36	0.1	1	8.6E-04
Polychlorinated biphenyls (PCBs)	2.0E+00	0.85	0.16	1	3.5E-01	5.0E-05	0.85	0.16	1	5.7E-06
Arsenic	1.5E+00	1	0.03	1	1.5E+01	3.0E-04	1	0.03	1	7.1E-07
Barium						7.0E-02	1	0.05	1	1.4E-03
Beryllium					8.4E+00	5.0E-03	1	0.03	1	5.7E-06
Cadmium					6.3E+00	5.0E-04	1	0.14	1	5.7E-06
Chromium(VI)					4.2E+01	2.0E-02	1	0.09	1	8.6E-05
Lead						7.5E-04	0.5	0.006	1	2.9E-04
Mercury						3.0E-04	1	0.05	1	8.6E-05
Nickel					1.7E+00	2.0E-02	1	0.35	1	2.9E-04
Silver						5.0E-03	1	0.25	1	4.0E-05
Zinc						3.0E-01	1	0.02	1	4.0E-04

Emergency Utility Worker
Dermal Contact with Groundwater - EP-2 (MW-36)
Acquired Residential Properties
New Bedford, Massachusetts

Constituent		Ground Water Concentration (mg/l)	Kp cm/hr	RAF Dermal Cancer (--)	LADD Cancer (mg/kg-d)	RAF Dermal Noncancer (--)	ADD Noncancer (mg/kg-d)	Toxicity Values: Cancer Slope Factor (mg/kg-d)-1	Toxicity Values: Subchronic Non-Cancer Reference Dose (mg/kg-d)	Risk Estimates: Cancer Risk (--)	Risk Estimates: Non-Cancer Hazard Quotient (--)
PCBs											
1336-36-3	Total PCBs	4.9E-04	1.1E+00	1.10	2.9E-07	1.10	4.0E-05	2.0E+00	5.0E-05	6.E-07	8.1E-01
Metals											
7440-39-3	Barium	2.6E-02	1.0E-03	NC	NA	1.00	1.8E-06	NA	7.0E-02	NA	2.5E-05
7440-66-6	Zinc	2.8E-02	6.0E-04	NC	NA	1.00	1.2E-06	NA	3.0E-01	NA	3.8E-06

Toxicity values for 1,2,4-trichlorobenzene used for 1,2,3-trichlorobenzene
NA = Not Applicable
NC = No Criteria

LADD = Lifetime Average Daily Dose
RAF = Relative Absorption Coefficient
ADD = Average Daily Dose

	Cancer Risk	Hazard Index
TOTAL:	6E-07	8E-01

Bold = Cancer Risk >1.0E-05 or Hazard Quotient > 1.0E+00

Where:
LADD = (EPC x SA x Kp x RAF x ED x EF x EP x UC)/(BW x APcancer)
ADD = (EPC x SA x Kp x RAF x ED x EF x EP x UC)/(BW x APnoncancer)

Constituent Specific (CS)		
Exposure Point Concentration (EPC):	CS	mg/l
Skin surface area (SA):	3477	cm2 [1]
Permeability constant (Kp):	CS	cm/h
Exposure Duration (ED):	8	hours/event [2]
Exposure Frequency (EF):	0.14	events/d [2]
Exposure Period (EP):	182	days [1]
Units Conversion (UC):	0.001	l/cm3
Body Weight (BW):	58	kg [1]
Averaging Period (APcancer):	25550	days [1]
Averaging Period (APnoncancer):	182	days [1]

[1] MADEP, 2008
[2] Best Professional Judgement

APPENDIX D

SOIL MANAGEMENT PLAN

SOIL MANAGEMENT PLAN

SOIL EXCAVATION AND REMOVAL AT THE ACQUIRED RESIDENTIAL PROPERTIES

Parker Street Waste Site
New Bedford, Massachusetts

Release Tracking Number 4-15685

Prepared for:

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Prepared by:

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854

August 2012

TABLE OF CONTENTS

1.0 INTRODUCTION

The City of New Bedford Massachusetts (City) will engage the services of a Contractor (the "Contractor") to perform remediation activities at the properties located at 101, 102, and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street (hereinafter "Acquired Residential Properties"). The Acquired Residential Properties (hereinafter the "Site") are tracked by the Massachusetts Department of Environmental Protection (MassDEP) under Release Tracking Number (RTN) 4-15685. The Site is located on the eastern end of Greenwood and Ruggles Streets at or near the intersection of Hathaway Boulevard in New Bedford, Massachusetts. The remediation activities will be conducted pursuant to the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) and will include, but may not be limited to the following:

- EPA-approved pre-excavation polychlorinated biphenyl (PCB) Remediation Waste confirmatory sampling;
- Pre-characterization of PCB Remediation Waste Soil, and non-PCB Remediation Soil, for waste disposal and/or treatment requirements;
- On-site ex-situ or in-situ soil stabilization (as necessary);
- Excavation of PCB Remediation Waste and direct loading into lined roll-offs;
- Temporary on-site storage of lined roll-off, if necessary;
- Excavation of non-PCB Remediation Waste soils at 102 Greenwood Street;
- Temporary on-site stockpiling of non-PCB Remediation Waste
- On-site reuse of non-PCB Remediation Waste excavated soils;
- Off-Site disposal of excavated PCB Remediation Waste soils and excess non-PCB Remediation Waste Soil;
- Off-Site disposal of remediation generated wastes (i.e. decontamination solvents, rags, etc.);
- Backfilling the excavated soil at 102 Greenwood Street with documented compliant fill material; and
- Construction of an exposure barrier at the five contiguous properties located at 101 and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street.

Site investigations identified the presence of historic fill at the Site variously impacted by PCBs, polycyclic aromatic hydrocarbons (PAHs), and heavy metals (e.g., arsenic, lead, mercury), and chlorinated dioxins/furans. The fill material appears to be attributable to historic disposal activities.

Currently, no Imminent Hazard (IH) condition exists at the Site, and a condition of No Significant Risk exists for current Site conditions at these fenced parcels. However, soil EPCs for lead, arsenic, benzo(a)pyrene, total PCBs and dioxin Toxicity Equivalent (TEQ) are associated with hazard indices (HIs) greater than 1 and/or excess lifetime cancer risks (ELCRs)

greater than 1 x 10^{-5} for future Site conditions. As a result, a Condition of No Significant Risk does not exist for potential soil impacts at the Site under future use scenarios.

This SMP is intended to provide the Contractor with information regarding the requisite soil management requirements. These procedures are also designed to ensure that soil that is encountered at the Site is managed in a manner that is protective of human health, safety, public welfare and the environment, as required by the MCP. Due to the depth of most of the excavations and limited proximity to site groundwater it is anticipated that groundwater management needs for this work are not required. A Commonwealth of Massachusetts Licensed Site Professional (LSP) has been retained by the City to oversee the soil management activities during Site remediation to ensure compliance with the applicable provisions of the MCP and related Massachusetts Department of Environmental Protection (MassDEP) policies and guidance.

1.1 Contact Information

The party undertaking this RAM is:

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740
Contact: Ms. Michele S. W. Paul
(508) 979-1487

The LSP for this project is:

David M. Sullivan, LSP
LSP License Number: 1488
TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854
(978) 656-3565

1.2 Roles and Responsibilities

The City will engage the services of a Contractor to complete the remediation activities outlined in the RAM Plan. Specifically, the Contractor will furnish all labor, equipment and materials required to complete the work in accordance with the contract documents including soil excavation, stockpiling, dust control, and off-Site transportation of soil from the Site. The Contractor will also be responsible for obtaining all necessary Federal, state and local permits required for this work (e.g., Dig-Safe and other necessary permits that may be required by the City).

The Contractor will not be responsible for obtaining approval from MassDEP Bureau of Waste Site Cleanup (BWSC), as required by the MCP at 310 CMR 40.0443, to implement this work.

Such approval will be obtained by the LSP by submitting a Release Abatement Measure (RAM) to MassDEP describing the planned remediation activities.

Under a separate contract/authorization, the LSP and/or the LSP's designee (hereafter referred to collectively as "the LSP") will be responsible for obtaining regulatory approval under the MCP to implement the proposed remediation activities. The LSP will periodically inspect the construction activities to ensure consistency with the RAM, this SMP document and applicable MCP and MassDEP policies. Specifically, the LSP's role will include, but may not be limited to, inspection and oversight of the following activities:

- Soil excavation and grading
- Soil sampling
- Stockpiling
- Loading
- Off-Site transportation
- MCP and PCB Remediation Waste related decontamination activities

The LSP will also collect any samples required to characterize soil for off-Site disposal and for confirmatory sampling at the Site, and will provide the required laboratory analyses of these samples.

The LSP will prepare and sign MCP Bills of Lading (BOLs) and/or Material Shipping Records (MSR) required for the off-Site shipment of excavated soil from the Site. The Contractor will be responsible for preparing any Hazardous Waste Manifests for City signature, if needed, for the off-Site transportation and disposal of any soil that meets the regulatory criteria for classification as a Hazardous Waste.

In addition, in accordance with the Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) standard (29 CFR 1910.120 and 1926.65), the LSP will prepare a Site-specific Health and Safety Plan (HASP) for this project for the protection of TRC personnel. The HASP will specify proper health and safety procedures to be implemented, and the necessary personal protective equipment to be used to protect TRC personnel from exposure to contaminated soil and groundwater during excavation. The Contractor will preapre a separate HASP prior to initiating work and must adhere to the requirements of that HASP during performance of the work. The Contractor's employees assigned to the Site should have, at a minimum, 40-hour OSHA HAZWOPER training, and current 8-hour OSHA HAZWOPER refresher training as appropriate. The Contractor's on-Site foreman responsible for hazardous material should also have OSHA Site Supervisor Training. The City and/or LSP may request copies of training certificates for each of the Contractor's employees assigned to the Site.

1.3 Existing Site Conditions

A Site Location Map is provided as Figure 1, which illustrates the general Site vicinity within the City of New Bedford, Massachusetts. The Site includes the properties located at 101, 102, and

111 Greenwood Street, and 98, 108, and 118 Ruggles Street and occupies approximately 1.3 acres. The properties are grass-covered and the former structures have been removed.

In Massachusetts, the excavation and management of impacted soil at disposal sites is regulated by the MCP. The purpose of the MCP is "to provide for the protection of health, safety, public welfare and the environment" by instituting a uniform mechanism for identifying impacted soils and implementing appropriate response actions.

1.3.1 Release Abatement Measure (310 CMR 40.0440)

Certain remediation related excavation activities at the Site will be performed as a RAM in accordance with the provisions of the MCP at 310 CMR 40.0440. A RAM Plan will be prepared by the LSP and will be submitted to MassDEP prior to initiating excavation activities. The RAM Plan will specify the planned soil excavation activities, identify the threat of release conditions and describe response actions. The soil management procedures outlined in Section 2.0 of this document will form the basis of the RAM. Throughout the course of the remediation activities, the LSP may also prepare RAM Status Reports for submission to MassDEP as required by the MCP.

1.3.2 Management Procedures for Remediation Waste (310 CMR 40.0030)

The MCP establishes requirements and procedures for the management of remediation waste including contaminated media and debris and non-containerized waste. This section of the MCP also outlines procedures for documenting and tracking any off-Site transportation and disposal of regulated soil from a disposal site using a MCP Bill of Lading (BOL). The BOL requirements and procedures will apply to any contaminated soils transported from the Site, provided the soils are not otherwise characterized as hazardous waste pursuant to 310 CMR 30.000, the *Massachusetts Hazardous Waste Regulations*.

1.3.3 Interim Waste Management Policy for Petroleum-Contaminated Soils (WSC-94-400)

This policy outlines management practices for reuse, recycling, disposal, storage and transport of petroleum-contaminated soils, and presents related guidance. The policy's goals include encouraging management practices that provide for the destruction of volatile organic compounds (VOCs) or minimize the potential for migration/release of contaminants, and encouraging recycling of contaminated soils (e.g., asphalt batch recycling). The policies include guidelines for testing, storage, reuse/recycling, and establishing acceptance criteria at recycling facilities.

1.3.4 Construction of Buildings in Contaminated Areas – January 2000 (WSC-00-425)

This policy clarifies existing regulatory requirements applicable to building construction areas that have been contaminated by a release of oil and/or hazardous material ("contaminated areas"). This clarification concerns, and is limited to, the jurisdiction and application of 310 CMR 40.0000 (MCP) to construction projects in contaminated areas.

1.3.5 Reuse and Disposal of Contaminated Soil at Massachusetts Landfills (COMM-97-001)

This policy outlines procedures for reuse or disposal of contaminated soils at Massachusetts-permitted landfills. The policy includes guidelines for testing, transport, record keeping, reporting, and establishes acceptance criteria for lined and unlined landfills.

1.3.6 Bill of Lading (BWSC Forms 012A, 012B and 012C)

The BOL tracks the transportation and final disposition of Remediation Wastes generated during the performance of response actions under the MCP. BOLs may be used to record the shipment of contaminated soil from the Site to a reuse, recycle and/or disposal facility approved by the Owner and LSP. BOLs will be stamped and signed by the LSP.

1.3.7 40 CFR Part 761

Certain EPA regulations address the management of PCB impacted soil. Approval from EPA for the activities described in the RAM Plan, insofar as EPA's jurisdiction extends, has been sought by the City.

Based on laboratory analytical results detailed in the RAM Plan, six areas constitute PCB Remediation Waste pursuant to EPA's PCB regulations under 40 CFR Part 761 and require management as such. The sample and/or test pit targeted, and the approximate total volume of soil to be excavated (246 cubic yards) is summarized below by area, subject to change if additional data are collected:

- Area 1 (SB-102-6) – 4.2 cubic yards
- Area 2 (SB-185, SB-102-8A, SB-102-B, SB-102-8C, and SB-102-8D) – 55.1 cubic yards
- Area 3 (H2) – 15.7 cubic yards
- Area 4 (TP101-H, TP101-I) – 116.7 cubic yards
- Area 5 (TP101-C, TP101-F, TP101-G) – 50 cubic yards
- Area 6 (SB-101-6B) – 4.2 cubic yards

Soils determined to be PCB Remediation Waste will be loaded and transported offsite for disposal in accordance with 40 CFR Part 761.61 following approval by the EPA.

As detailed in the RAM Plan, equipment that comes into direct contact with soil determined to be actual or potential PCB Remediation Waste will be decontaminated in accordance with methods described in the RAM Plan.

1.3.8 Hazardous Waste Manifest

A Hazardous Waste Manifest is a MassDEP-approved form used to track the origin, quantity, composition, transportation and final destination of hazardous waste. Hazardous Waste Manifests should be utilized for shipping of any wastes subject to the Massachusetts Hazardous Waste Regulations (310 CMR 30.000). The Contractor will prepare any Hazardous Waste

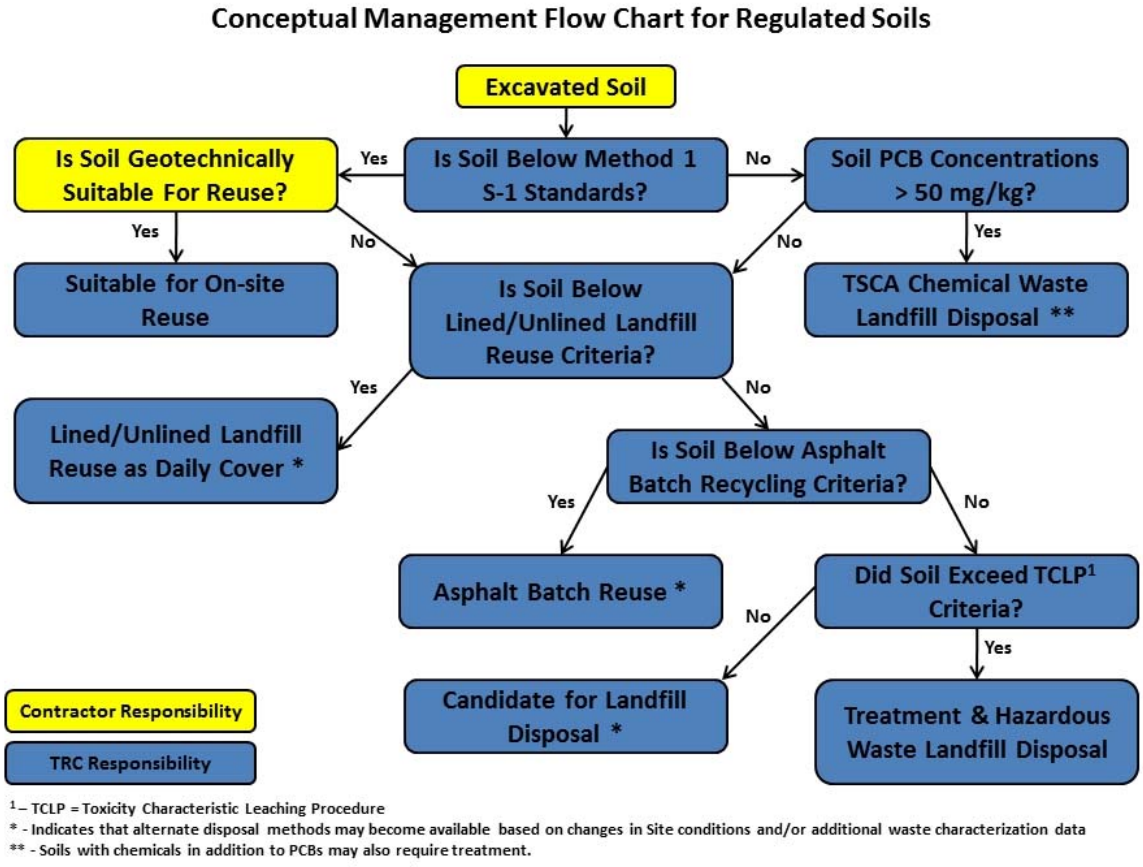
Manifest required for transport of the materials from this Site. The hazardous waste disposal facility to be used for disposal of any such material will be subject to approval by the Owner and/or LSP. Other requirements apply as described in 310 CMR 30.310. The Hazardous Waste Manifest, if used, would be signed by City personnel.

Note that the reference to MassDEP policies COMM-97-001 and WSC-94-400 does not preclude the use of out-of-state facilities that offer similar reuse (e.g., landfill daily cover) or recycling (e.g., asphalt batch) opportunities. Such opportunities may be evaluated and/or utilized on a case-by-case basis assuming facility acceptance criteria can be met and the facility is currently within its regulatory jurisdiction for the reuse and/or recycling services provided.

2.0 EXCAVATION OVERSIGHT

TRC personnel will provide oversight during remediation activities. The soil oversight personnel will be screening soil with pre-characterization analytical data and providing as needed clarification regarding the soil category to the Contractor to ensure soil is segregated to the appropriate stockpile pending final reuse, recycling and/or disposal determinations.

Typical soil management options for a remediation project at a listed Disposal Site may include on-site reuse; offsite reuse/recycling; disposal at an approved and appropriately licensed non-hazardous waste, lined or unlined landfill; and disposal at an approved and appropriately licensed hazardous waste landfill. The determination of the reuse, recycling, or disposal option for soils from different portions of the excavation will consider physical and chemical characteristics of the soil and the reuse capacity within the construction project, as shown in the following flow diagram:



Typical soil management options for a remediation project at a listed Disposal Site may allow soil to be returned to the approximate location from which it came (i.e., structure footing excavation) providing that it is chemically and geotechnically suitable for reuse as backfill, with the geotechnical suitability determined by the construction Contractor and/or project Architect/Engineer. Chemical suitability is determined by the LSP. Soil that is suitable for on-site reuse may be returned directly to the excavation or stockpiled for later reuse in a nearby

location. Soil that has been deemed unsuitable for reuse on-site will be segregated and stockpiled for off-site management (off-site reuse and/or disposal).

2.1 Soil Classification

Soil excavated during remediation activities will be classified by the following criteria. If the criteria are not in agreement, then the classification will be made based on the highest ranked factor.

1) Pre-characterization data;
2) Physical observations of ash-bearing "fill" material; and
3) Physical observations of other anthropogenic "fill" material.

Based on the available laboratory data for soil, soil at a listed Disposal Site displaced by Construction Activities may be segregated into one or more of the following classifications:

- Type A Soil (PCB concentration greater than or equal to 50 mg/kg) – Type A soil exhibits a PCB Concentration greater than or equal to 50 mg/kg and is not expected to be RCRA Characteristic Hazardous. If analytical data indicate soil is RCRA Characteristic Hazardous, soils may be treated on-site to render it non-RCRA Characteristic Hazardous. This soil will be either disposed of at a licensed TSCA chemical waste landfill if the soil is treated (e.g., stabilized) and the treatment is effective in rendering the soil non-RCRA Characteristic Hazardous, or a licensed TSCA/RCRA chemical waste landfill.

- Type B Soil (PCB concentration greater than 2 mg/kg but less than 50 mg/kg and potentially RCRA Characteristic Hazardous) – Type B soil exhibits a PCB concentration greater than 2 mg/kg but less than 50 mg/kg, and exhibits metals concentrations greater than 20 times the TCLP limits. If TCLP analysis data indicates soils are RCRA Characteristic Hazardous, soils may be treated on-site to render the soils non-RCRA Characteristic Hazardous. This soil will be disposed of at an appropriately licensed facility.
- Type C Soil (PCB concentration less than 2 mg/kg and potentially RCRA Characteristic Hazardous) – Type C soil exhibits a PCB concentration less than 2 mg/kg and exhibits metals concentrations greater than 20 times the TCLP limits. If TCLP analysis data indicates soils are RCRA Characteristic Hazardous, soils may be treated on-site to render the soils non-RCRA Characteristic Hazardous. This soil will be disposed of at an appropriately licensed facility.
- Type D Soil (PCB concentration greater than 2 mg/kg but less than 50 mg/kg and non-RCRA Characteristic Hazardous) – Type D soil exhibits a PCB concentration greater than 2 mg/kg but less than 50 mg/kg, and does not exhibit metals concentrations greater than 20 times the TCLP limits. This soil will be disposed of at an appropriately licensed facility.
- Type E Soil (PCB concentration less than 2 mg/kg and non-RCRA Characteristic Hazardous) – Type E soil exhibits a PCB concentration less than 2 mg/kg and does not

exhibit metals concentrations greater than 20 times the TCLP limits. This soil will be disposed of at an appropriately licensed facility.

Soil type determinations will be made by the LSP following the collection of suitable characterization data.

3.0 ON-SITE SOIL MANAGEMENT

Impacted soil excavation will take place with qualified field oversight personnel. Contractors will be required to implement means to prevent fugitive dust generation (e.g., water sprays).

Excavated soils associated with the RAM will be either direct loaded for off-site disposal, or temporarily stockpiled on-site. Analytical data collected during the previous excavations and supplemental in-situ waste characterization sampling from the excavation areas will be used to obtain pre-approval of soil acceptance, where necessary, from a disposal facility prior to excavation activities. Based on the analytical data, on-site ex-situ or in-situ stabilization may be necessary.

3.1 PCB Remediation Waste Management

Soils determined to be PCB Remediation Waste will be directly loaded into a lined roll-off and transported to an off-site location for temporary storage prior to disposal at a chemical waste landfill conforming to the requirements of 40 CFR Part 761-75 following EPA approval. Roll-offs will be lined with polyethylene and covered to prevent leakage and storm water accumulation. If stock piling of soils is needed, the stockpiles on-site will be staged on polyethylene sheeting (minimum 6-mil thickness) and covered with sheeting at all times with exception of periods when adding or removing soil to or from the piles. The stockpiles should be designed such that storm water runoff does not impact the soil and any water draining from the soil does not migrate from the polyethylene sheeting to the ground surface. The stockpiles shall be inspected and estimates of total volumes made on a daily basis. Soil may be stockpiled at an alternative City owned location at the discretion of the City and as consistent with the MCP.

3.2 Temporary On-Site Stockpile Disposition

The stockpiles on-site will be staged on polyethylene sheeting (minimum 6-mil thickness) and covered with sheeting at all times with exception of periods when adding or removing soil to or from the piles. The stockpiles should be designed such that storm water runoff does not impact the soil and any water draining from the soil does not migrate from the polyethylene sheeting to the ground surface. The stockpiles shall be inspected and estimates of total volumes made on a daily basis. If roll-offs will be used, they will be lined with polyethylene and covered to prevent leakage and storm water accumulation. Soil may be stockpiled at an alternative City owned location at the discretion of the City and as consistent with the MCP.

3.3 Off-Site Reuse, Recycling and/or Disposal

Excavated soil that will be transported from the Site will be characterized as appropriate for off-site disposal at a suitable facility. Several suitable off-site facilities are being considered, but the facility locations have not been finalized. The laboratory results of pre-characterization sampling will be used for off-site disposal characterization to the extent possible. The existing Site data will be supplemented as necessary to satisfy facility-specific acceptance criteria. The sample laboratory data will be compared soil data against Massachusetts reuse, recycle, and

disposal criteria in accordance to MassDEP Policy# COMM-97-001 and Interim Policy #WSC-94-400.

Transportation of all materials from the site will be performed using a MassDEP Bill of Lading (BOL), Material Shipping Record (MSR) or Hazardous Waste Manifest, as appropriate, and will be performed within 120 days of stockpiling in accordance with 310 CMR 40.0030 of the MCP. Acceptance at some off-site facilities may be contingent upon soil stabilization, which can be performed either in- or ex-situ, assuming favorable post-treatment results and supporting waste characterization documentation.

3.4 Decontamination of Vehicles Transporting Soils

Soils and mud will be removed from vehicles prior to their departure from the Site. A decontamination pad will be constructed by the Contractor prior to soil removal activities. The method of soil removal will likely be a combination of brushing the wheels to remove loose soils and/or passing vehicles through a decontamination station. Any liquids generated by vehicle decontamination will be drummed and transported off-site for disposal.

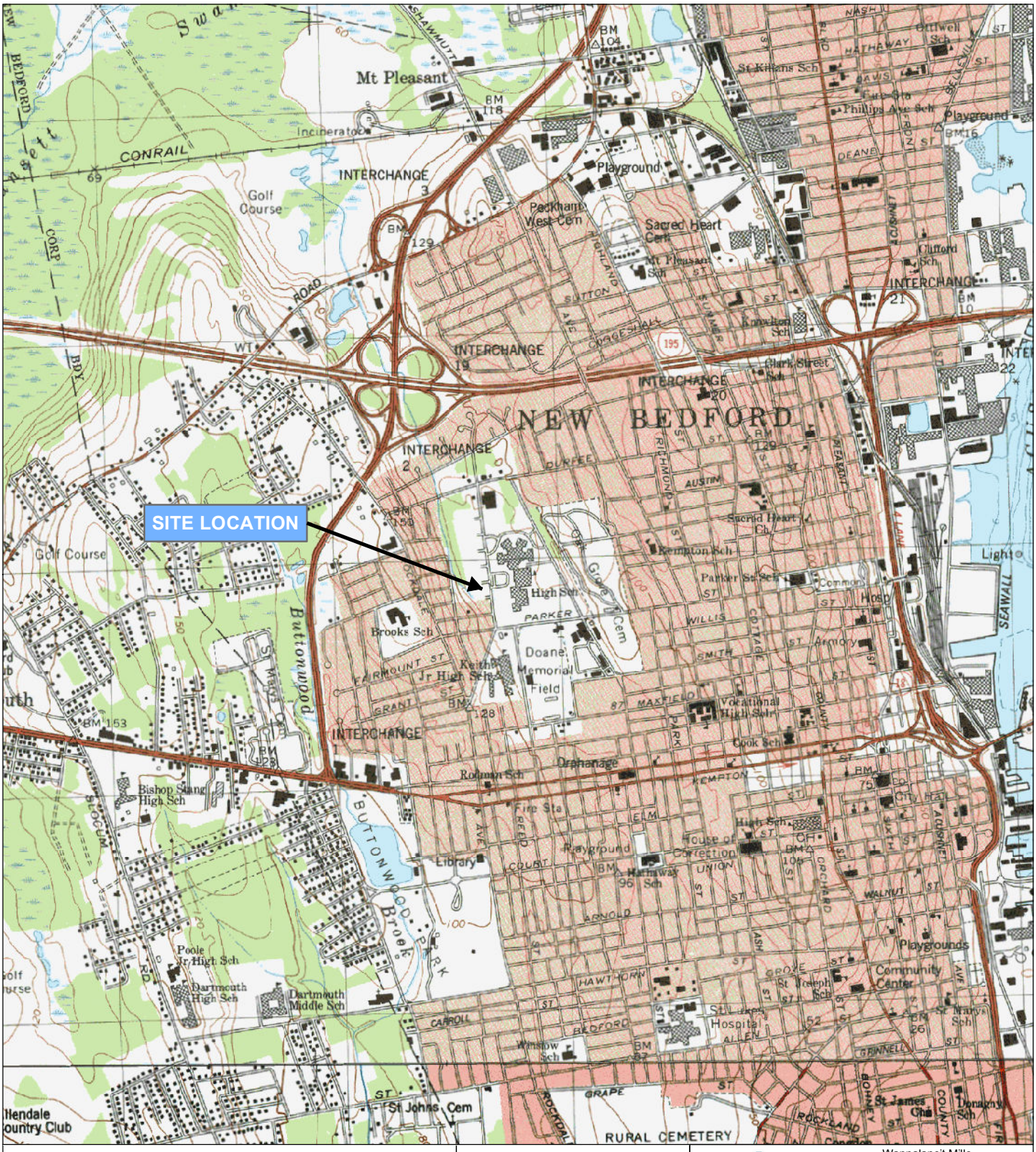
During the excavation of PCB Remediation Waste, all sampling equipment will be decontaminated prior to use and between each discreet sample in accordance with the self-implementing decontamination procedures as set forth under 40 CFR Part 761.79(c)(2)(i) consisting principally of a solvent swab of tools, moveable equipment, and sampling implements that come into direct contact with potentially contaminated soil. Under the self-implementing decontamination approach, spent solvents and solvent-soaked rags from decontamination activities will be managed for disposal via incineration at an appropriately permitted facility per 40 CFR Part 761.79(g)(3), (4) or (5).

In addition, the Contractor shall be responsible for ensuring that tracking of potentially contaminated soil onto public roadways is prevented.

3.5 Supplementary Stockpile Characterization

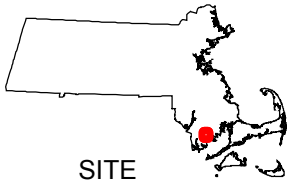
Prior to transport and disposal of stockpiled soils, soils stockpiled for disposal will be evaluated to determine whether sufficient analytical data is available to satisfy the requirements of the selected disposal or recycling facility. As deemed necessary, soil samples will be collected and analyzed according to the analytes and the sampling frequency specified by the selected disposal facility.

FIGURE



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

APPENDIX E

RAM PLAN FEE DOCUMENTATION

TRC

21 Griffin Road North
Windsor, CT 06095

811975

WACHOVIA BANK, N.A.
Wilmington, DE
62-22/311

CHECK DATE
October 2, 2012

PAY Eight Hundred and 00/100 Dollars

AMOUNT
800.00

TO Commonwealth Of Massachusetts
P.O. Box 4062
Department of Environmental Protection
Boston, MA 02211

By _____ MP
VOID AFTER 90 DAYS AUTHORIZED SIGNATURE

Security Check features included Details on back.

⑈811975⑈ ⑆031100225⑆ 2079950091538⑈

TRC

21 Griffin Road North
Windsor, CT 06095

EMILY BUSINESS FORMS 800.392.6018 VISION

811975

Check Date: 10/2/2012

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
RAM PLAN SUBMIT OC12	10/2/2012	007753590687	800.00			800.00
Commonwealth Of Massachusetts		TOTAL	800.00			800.00
3Bank	8	030812				

APPENDIX F

MUNICIPAL NOTIFICATION LETTERS

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCsolutions.com

December 18, 2012

TRC Reference Number: 115058.0000.0000

Dr. Brenda Weis
Health Department
1213 Purchase Street, First Floor
New Bedford, Massachusetts 02740

RE: Release Abatement Measure Plan
Soil Excavation and Removal at the Acquired Residential Properties
New Bedford, Massachusetts
MassDEP RTN 4-15685.

Dear Dr. Weis:

On behalf of the City of New Bedford (the "City"), and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), TRC Environmental Corporation (TRC) has prepared this letter to inform you of the submittal of a Release Abatement Measure Plan (RAM Plan), Soil Excavation and Removal at the Acquire Residential Properties, Parker Street Waste Site, New Bedford, Massachusetts.

If you have any questions concerning this document, please do not hesitate to contact David Sullivan at TRC at (978) 656-3565 or Cheryl Henlin with the Department of Environmental Stewardship, at (508) 961-4576.

Sincerely,
TRC Environmental Corporation

David M. Sullivan, LSP
Sr. Project Manager

Cc: Cheryl Henlin, New Bedford Department of Environmental Stewardship

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCsolutions.com

December 18, 2012

TRC Reference Number: 115058.0000.0000

Mayor Jonathan F. Mitchell
Office of the Mayor
City Hall, Room 311
New Bedford, Massachusetts 02740

RE: Release Abatement Measure Plan
Soil Excavation and Removal at the Acquired Residential Properties
New Bedford, Massachusetts
MassDEP RTN 4-15685.

Dear Mr. Mitchell:

On behalf of the City of New Bedford (the "City"), and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), TRC Environmental Corporation (TRC) has prepared this letter to inform you of the submittal of a Release Abatement Measure Plan (RAM Plan), Soil Excavation and Removal at the Acquire Residential Properties, Parker Street Waste Site, New Bedford, Massachusetts.

If you have any questions concerning this document, please do not hesitate to contact David Sullivan at TRC at (978) 656-3565 or Cheryl Henlin with the Department of Environmental Stewardship, at (508) 961-4576.

Sincerely,
TRC Environmental Corporation

David M. Sullivan, LSP
Sr. Project Manager

Cc: Cheryl Henlin, New Bedford Department of Environmental Stewardship