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May 26, 2011

Massachusetts Department of Environmental Protection
Southeast Regional Office
20 Riverside Drive
Lakeville, Massachusetts 02347

RE: Partial Response Action Outcome Statement Report
Former Keith Junior High School/New Andrea McCoy Field
70 Hathaway Boulevard, New Bedford, Massachusetts
Release Tracking Number (RTN) 4-15685

To Whom It May Concern:

TRC Environmental Corporation (TRC) is submitting the attached partial Response Action Outcome (RAO) Statement to the Massachusetts Department of Environmental Protection (MassDEP), on behalf of the City of New Bedford School Department (through the Department of Environmental Stewardship), for the Former Keith Junior High School (KJHS) property, also known as the New Andrea McCoy Field. The RAO Statement was prepared in accordance with the requirements set forth in the Massachusetts Contingency Plan (MCP, 310 CMR 40.1000).

This RAO addresses the components of the Site tracked under RTN 4-15685. A separate RAO Statement was submitted to address underground storage tank (UST)-related contamination tracked under MassDEP RTN 4-15824 only in June 2010.

The attached report presents a summary of activities and documents the achievement of a Class A-3 RAO consistent with 310 CMR 40.1036(2) of the MCP.

If you have any questions regarding this submittal, please contact the undersigned at (978) 970-5600.

Sincerely,

TRC Environmental Corporation

David M. Sullivan, LSP, CHMM
Senior Project Manager

Attachment

PARTIAL RESPONSE ACTION OUTCOME STATEMENT REPORT

Former Keith Junior High School/New Andrea McCoy Field

70 Hathaway Boulevard
New Bedford, Massachusetts
Release Tracking Number (RTN) 4-15685

Submitted to:

Massachusetts Department of Environmental Protection
Southeast Region Main Office
20 Riverside Drive
Lakeville, Massachusetts 02347

Prepared by:

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On behalf of:

City of New Bedford – School Department
c/o Department of Environmental Stewardship
133 William Street
New Bedford, Massachusetts 02740

May 2011

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

1.0 INTRODUCTION 1-1

1.1 Release Background 1-1
1.1.1 Reporting of Release 1-1
1.1.2 Initial Response Actions Undertaken by Others 1-1
1.1.3 Initial Activities Undertaken by TRC 1-2
1.2 Objective 1-6
1.3 RAO Minimum Content Information – 310 CMR 40.1056(1) 1-7
1.3.1 Disposal Site Information – 310 CMR 40.1056(1)(a) 1-7
1.3.2 Class of Response Action Outcome – 310 CMR 40.1056(1)(b) 1-7
1.3.3 Risk Characterization Method Employed – 310 CMR 40.1056(1)(c) 1-7
1.3.4 Relationship to Other RAO Statements – 310 CMR 40.1056(1)(d) 1-7
1.3.5 Post-RAO Active Operation and Maintenance – 310 CMR 40.1056(1)(e) 1-7
1.3.6 Activity and Use Limitation Summary – 310 CMR 40.1056(1)(f) 1-7
1.3.7 Licensed Site Professional (LSP) Opinion – 310 CMR 40.1056(1)(g) 1-8
1.3.8 Certification of Submittal – 310 CMR 40.1056(1)(h) 1-8
1.3.9 Upper Concentration Limits – 310 CMR 40.1056(1)(i) 1-8

2.0 RESPONSE ACTION OUTCOME SUPPORTING DOCUMENTATION 2-1

2.1 Disposal Site Location Description – 310 CMR 40.1056(2)(a) 2-1
2.2 Elimination or Control of Uncontrolled Sources – 310 CMR 40.1056(2)(b) 2-2
2.2.1 Prior Work Undertaken by Others 2-2
2.2.2 Work Undertaken by TRC 2-2
2.3 Extent of Site Chemical Impacts 2-6
2.3.1 Soil 2-6
2.3.2 Groundwater 2-8
2.3.3 Imminent Hazards 2-8
2.4 Achievement of Level of No Significant Risk – 310 CMR 40.1056(2)(c) 2-8
2.5 Elimination of Substantial Hazards – 310 CMR 40.1056(2)(d) 2-8
2.6 Achievement of Background – 310 CMR 40.1056(2)(e) 2-8
2.7 Upper Concentration Limits – 310 CMR 40.1056(2)(f) 2-9
2.8 Activity and Use Limitation Documentation – 310 CMR 40.1056(2)(g) 2-9
2.9 Activity and Use Limitation Opinion – 310 CMR 40.1056(2)(h) 2-9
2.10 Operation, Maintenance, and Monitoring – 310 CMR 40.1056(2)(i) 2-9

3.0 HUMAN HEALTH RISK CHARACTERIZATION AND EXPOSURE ASSESSMENT [310 CMR 40.1056(1)(c)] 3-1

3.1 Introduction [310 CMR 40.0900] 3-1
3.2 Adequacy of Site Characterization 3-1
3.2.1 Investigated Media 3-1
3.2.1.1 Soil 3-1
3.2.1.2 Groundwater 3-2

3.2.2 Extent of Impacts 3-2
3.2.2.1 Horizontal and Vertical Extent 3-2
3.2.2.2 Background Concentrations 3-3
3.2.2.3 Existing or Potential Migration Pathways 3-3
3.2.3 Chemicals of Concern 3-3
3.3 Site Activities and Uses (Current and Foreseeable Future) 3-4
3.3.1 Current Uses 3-4
3.3.2 Foreseeable Future Uses 3-4
3.4 Imminent Hazards 3-5
3.4.1 Criteria for Releases Deemed to Pose an Imminent Hazard – 310 CMR 40.0321(1) 3-5
3.4.2 Criteria for Release that Could Pose an Imminent Hazard – 310 CMR 40.0321(2) 3-6
3.5 Appropriateness of the Use of Method 1 3-6
3.6 Groundwater and Soil Categorization 3-7
3.6.1 Groundwater Categories 3-7
3.6.2 Soil Categories 3-7
3.7 Exposure Point Concentrations 3-8
3.7.1 Exposure Point Concentrations for Soil 3-8
3.7.2 Exposure Point Concentrations for Groundwater 3-8
3.7.3 Hot Spots 3-9
3.8 Background Concentrations 3-9
3.9 Identification of Method 1 Standards 3-9
3.10 Method 1 Risk Characterization 3-9
3.11 Risk of Harm to Safety, Public Welfare, and the Environment 3-10
3.11.1 Characterization of Risk to Safety 3-10
3.11.2 Risk to Public Welfare 3-10
3.11.3 Environmental Risk Characterization 3-10
3.12 Conclusions 3-11

4.0 FEASIBILITY OF ACHIEVING BACKGROUND LEVELS 4-1

5.0 DATA USABILITY AND REPRESENTATIVENESS 5-1

5.1 Data Usability Assessment 5-1
5.1.1 Analytical Data Usability Assessment 5-1
5.1.2 Field Quality Control Data Usability Assessment 5-1
5.1.3 Achievement of Data Quality Objectives 5-1
5.2 Representativeness Evaluation 5-2
5.2.1 Conceptual Site Model 5-2
5.2.2 Work Plan, Data Quality Objectives and Data Collection Approach 5-2
5.2.2.1 Site Testing 5-2
5.2.3 Use of Field/Screening Data 5-3
5.2.4 Selection of Sampling Locations and Depths 5-3
5.2.5 Number and Spatial Distribution of Sampling Locations 5-3
5.2.6 Temporal Distribution of Samples 5-3
5.2.7 Critical Samples 5-4

5.2.8 Completeness 5-4
5.2.9 Uncertainty and Inconsistency 5-4
5.2.10 Conclusion from Representativeness Evaluation 5-4

6.0 RESPONSE ACTION OUTCOME 6-1

7.0 PUBLIC INVOLVEMENT 7-1

8.0 REFERENCES 8-1

TABLES

Table 1 Summary of Detected Analytical Results for Fill Area Soil Samples
Table 2 Summary of Detected Analytical Results for Groundwater Samples
Table 3 Summary of Detected Analytical Results for Transformer Area Soil Samples
Table 4 Comparison of Soil Results to MassDEP Ash Background Concentrations

FIGURES

Figure 1: Site Location Map
Figure 2: Sample Location Map
Figure 3: MassDEP Site Scoring Map
Figure 4: Data Summary Map
Figure 5: Schematic Conceptual Site Model

APPENDICES

Appendix A Limitations
Appendix B Copy of RAO Transmittal Form
Appendix C AUL
Appendix D Risk Assessment Supporting Documentation
Appendix E Data Usability Assessment
Appendix F Public Notification Letters

EXECUTIVE SUMMARY

This partial Response Action Outcome (RAO) was prepared by TRC Environmental Corporation (TRC) on behalf of the City of New Bedford to document the achievement of a Class A-3 RAO under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) for the Former Keith Junior High School (KJHS), also known as the New Andrea McCoy Field in New Bedford, Massachusetts (the Site), as summarized below:

- Response actions have been conducted to achieve a level of No Significant Risk:
- The source of impacts at the Site have been controlled or eliminated;
- A Permanent Solution has been achieved;
- The levels of impacted detected in the environment approach ash-related background based on the discussions provided herein and in Section 2.6 and 4.0;
- An Activity and Use Limitation (AUL) has been implemented to maintain a level of No Significant Risk; and
- OHM at the Site do not exceed an MCP Upper Concentration Limit (UCL) in soil and groundwater.

This RAO documents the completion of the remedial activities taken to address soil impacts and is administratively tracked by the Massachusetts Department of Environmental Protection (MassDEP) under Release Tracking Number (RTN) 4-15685. No other response actions are necessary at the Site.

To bring the KJHS remedial activities to closure, the potential risks associated with KJHS soil were mitigated by removing several areas of soil that contributed to Exposure Point Concentrations (EPCs) in excess of the MCP Method 1/Method 2 S-1 standards in the top three feet of soil. After the soil removal, an AUL was developed for implementation on the property to prevent potential exposure to soils below the top three feet of S-1 compliant soil, and beneath pavement and building structures. Following soil removal, the excavations were backfilled with clean fill Over 2542 tons of impacted soil have been removed as part of Release Abatement Measure (RAM), and Utilities Release Abatement Measure (URAM) activities to achieve the Class A-3 closure.

The City conducted these remedial actions under the direction of a Licensed Site Professional (LSP) with the approval of MassDEP. Note that historical information, forensic review of historical aerial photographs, evaluation of soil analytical data, and review of soil boring information associated with environmental investigations conducted by TRC and others in the area of KJHS, including the Environmental Protection Agency (EPA), indicate that KJHS is located in a district of widely distributed historic urban fill that is a background condition in this area. A consensus definition of historic urban fill centers on the following characteristics:

- **Historic fill is the sole source of the fill-related release –** Fill-related impacts detected and remedied at KJHS cannot be attributed to any known point source. Historically, the eastern

and northern portion of KJHS where fill was encountered was once an area of open space and a wetland (numerous soil borings encountered peat deposits) that was subjected to filling with common urban fill materials (e.g., primarily ash, coal wood, glass, metal, with some debris) and consistent with other descriptions of historic urban fill deposition in Massachusetts such as charred wood and bricks (Collins, 2008).

With numerous soil samples collected by TRC and others submitted for chemical analysis, sufficient assessment and investigative actions have been conducted to render an opinion that historic fill is the sole source of the chemical impacts. There are no identifiable point sources connected to the fill impacts observed at the eastern and northern portions of the KJHS property.

§ **Wide range of materials –** Typically, historic urban fill contains a wide range of materials, including natural soils, brick, wood, and concrete from demolished buildings, petroleum or pavement residuals, and charred wood and ash (Collins 2005). The eastern and northern portion of KJHS soil contains the wide-spread presence of ash, coal, brick and wood, as well as glass. The ash zone material lacks any odor or staining, exhibits little evidence of metal items, and is devoid of modern materials such as plastics, indicating that it is associated with deposition predating the 1950s when commercial scale plastics production began, and a period of time when coal was a principle fuel for power generation and heating in the greater New Bedford area.

§ **Presence of exempt materials –** As noted in the MCP, concentrations of constituents attributable to coal ash or wood ash associated with fill material are considered background (310 CMR 40.0006) and in addition to coal are exempt from reporting under the MCP (310 CMR 40.0317(9)). The historic fill at KJHS contains an ash zone composed of a white or gray and occasionally black ash material containing combusted coal and wood, uncombusted coal and wood fragments, and occasionally small pieces of porcelain, brick, cinders, glass, or slag (clinkers).

The pyrogenic/petrogenic PAH ratios of the ash zone material exhibit a non-petroleum origin, and the PAH chemical signatures evidence a mix of origin from wood, coal, and possibly some combustion engine exhaust residues (Budzinski et al, 1997, Gschwend & Hites, 1981, Lima et al 2005). This composition is consistent with that of an extensively urbanized area, being subject to automotive and industrial air emissions, and deposition from the historical large scale use of coal which was a principle fuel for power generation and heating in the greater New Bedford area.

§ **Contaminants are characteristic of historic fill –** Documented discussions between MassDEP and the regulated community, such as the urban fill workgroup meetings held in 2007 and 2008, recognize that historic fill consistently displays OHM, such as polyaromatic hydrocarbons (PAHs), lead, and arsenic, and other metals that are not related to identifiable exempt material or to specific releases (Zirbel, 2010). The concentrations of PAHs and metals in KJHS soil/fill documented herein are consistent with widely documented

concentrations metals and PAHs in coal and coal-derived fly ash and bottom ash (EPA 2000 and LSPA 1999).

As documented herein, KJHS soil impacts are principally associated with lead, arsenic, cadmium, and PAHs. The concentrations of PCBs detected at New McCoy Field ranged from 0.02 mg/kg to 1.174 mg/kg, well below the most stringent MassDEP (2 mg/kg) cleanup standard. The absence of significant levels of PCBs at New McCoy Field, is evidence that the ash fill was placed prior to the commercial use of PCBs In fact, concentrations ranging from 0.1 mg/kg to 1 mg/kg may be considered background (all but one result is within this range) (EPA, 1990b). According to EPA, because of the persistence and pervasiveness of PCBs, PCBs will be present in background samples at many sites (EPA, 1990a). The low concentrations of PCBs detected as KJHS are most likely related to more recent air emissions and atmospheric deposition.

§ **Ubiquitous nature –** Fill in an urban landscape is widely present and is characterized by a widespread presence of certain types of impacts.

Lead has a high frequency of detection in urban fill soils and was detected in 98-percent of the more than 300 samples collected to characterize various urban park sites in Boston, as noted by Swanson and Lamie (2007). Lead is ubiquitous in urban fill soils due to its natural occurrence and anthropogenic sources, such as the historical use of leaded gasoline, leaded paint on building construction materials (including steel beams), and its presence in pipes and in solder.

PAHs are ubiquitous in the environment and combustion processes are responsible for the vast majority of the PAHs that enter the environment (Lima et al, 2005). As further noted by Swanson & Lamie (2007), Metals and PAHs, as represented by benzo(a)pyrene, are ubiquitous in urban fill soils. Because PAHs are the product of incomplete combustion, they are detected in non-urban soils from fallout from forest fires, and are very prominent in urban soils due to various anthropogenic emission and pavement sources over and above that provided by natural sources.

As noted herein, lead and PAHs such as benzo (a) pyrene were widespread at KJHS, suggesting that the ash fill disposed of at the property was of fairly common origin in the area. The presence of fill in neighboring residential lots and beneath the football field constructed during a known timeframe (late 1800s and early 1900s) emphasizes that the fill predates modern (i.e., twentieth century) industrial activities and represents a legacy of wetland filling common during that time period using widely available and inexpensive materials prevalent at that time: ash residues from coal-related power generation and building heating.

The neighboring Walsh Field is also underlain by historically deposited urban fill of similar physical and chemical composition. Boring logs from the Walsh Field document the presence of ash, coal, glass, and metal, which is consistent with KJHS. EPA boring logs from properties bordering the eastern, western and southern flanks for Walsh Field also reveal the presence of

ash, coal, and slag ("clinkers"), signaling the presence of widespread historic urban fill. A preliminary review of data from the area also indicates the presence of PAHs and metals at concentrations consistent with historic urban fill deposition.

To evaluate the feasibility of approaching or achieving background at KJHS, TRC considered the distribution of metal and PAH concentrations in the Site soils. Guidelines for the "natural" soil and ash-related background concentrations for metals and PAHs are published in the May 2002 DEP guidance document, "Technical Update - Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil" (MassDEP, 2002a). A comparison of Site soils to ash background is provided in Section 2.6 and in Table 2-7 in the RAO document.

TRC further evaluated the feasibility of achieving background in the context of a Site located within a larger district of historic urban fill by comparison to MCP guidance documents. Per the MCP, background is defined as those levels of oil and hazardous material that would exist in the absence of the disposal site of concern which are either: a) ubiquitous and consistently present in the environment at and in the vicinity of the disposal site of concern; and attributable to geologic or ecological conditions, or atmospheric deposition of industrial process or engine emissions; b) attributable to coal ash or wood ash associated with fill material; c) releases to groundwater from a public water supply system; or d) petroleum residues that are incidental to the normal operation of motor vehicles. The following discussion is framed in comparison to MassDEP's background concentrations in soil containing coal ash or wood ash (hereinafter "Ash Background") as published in the May 2002, Technical Update (MassDEP 2002a).

Soil EPCs for impacted soil within the 0 to 3 feet interval are below Method 1 S-1 soil standards.

The maximum concentration of certain chemicals (certain PAHs and metals) are above the MassDEP Background Concentrations in soil containing coal ash or wood ash (hereinafter "Ash Background") published in the May 2002, Technical Update (MassDEP 2002). However, a comparison of Site data for remaining soils with that utilized by MassDEP for the development of the Ash Background in the Technical Update, supports a conclusion that the remaining soils at the Site are comparable to that of Ash Background. A comparison of the 90th percentile value of Site soil concentrations to Ash Background concentrations (which were based on the 90th percentile value of ash containing soil concentrations in the database utilized by MassDEP for the preparation of the Technical Update) indicates that Site soil concentrations approach or are below Ash Background concentrations for PAHs and metals at the Site, with few exceptions. A comparison of the maximum concentration of PAHs and metals detected at the Site with the maximum concentrations utilized for the Ash Background determination, indicate that Site soil maximum concentrations approach or are below Ash Background, for all of the PAHs and most of the detected metals. Therefore, any additional remedial activity is not warranted and would be substantial and disproportionate to the net gain in risk reduction, especially in a situation where No Significant Risk has been achieved. A Class A-3 RAO is applicable for closeout of RTN 4-15685.

Regardless of the consistency of the site with an emerging consensus definition of historic urban fill, the history of the site, and with the database from which the MassDEP coal ash background guidelines were developed, all response actions performed to date have been performed in

compliance with MCP, all appropriate notifications have been made to MassDEP, all Imminent Hazards have been eliminated, and all response action have been necessary and appropriate to ensure the protection of human health.

In summary, this partial RAO documents the achievement of a Class A-3 RAO under the MCP for KJHS where response actions have been conducted to achieve a level of No Significant Risk; the source of impact at the Site, although principally associated with an ash-laden historic urban fill, has been controlled or eliminated; and a Permanent Solution has been achieved with an AUL. This RAO has been achieved without regard to the ash and coal origin of the fill layer and the consistency of analytical results with comparative coal and coal-related ash, and wood-related ash related analytical data. Also, no UCL conditions are present.

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has completed the following Partial Response Action Outcome (RAO) Statement for submittal to the Massachusetts Department of Environmental Protection (MassDEP), on behalf of the City of New Bedford (City) School Department through the City's Department of Environmental Stewardship, in accordance with the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The RAO Statement was prepared for the Former Keith Junior High School (KJHS) at 70 Hathaway Boulevard in New Bedford, Massachusetts (the Site), also known as the New Andrea McCoy Field, and documents the completion of the activities taken to address the components of the Site tracked under RTN 4-15685. Note that a RAO was previously submitted for the underground storage tank (UST)-related matter that was tracked under RTN 4-15824 in June 2010. A Site Location Map is included as Figure 1.

This report is subject to the limitations included in Appendix A.

1.1 Release Background

The Massachusetts Department of Environmental Protection (MassDEP) tracks two separate releases at the Site. RTN 4-15685 is associated with historical fill. RTN 4-15824 tracks petroleum contamination associated with a UST that is no longer on Site and was previously closed as a Class A-1 RAO. The Partial RAO documented herein addresses the former KJHS portion of RTN 4-15685 only.

1.1.1 Reporting of Release

The Disposal Site has a Special Project Designation, in accordance with 310 CMR 40.0060. On behalf of the City, VHB submitted an application to MassDEP for a Special Project Designation on August 27, 2001. The Special Project Designation was granted for the Disposal Site on December 20, 2001. On June 2, 2007, MassDEP granted a five-year extension of the Special Project Designation based on an application for extension submitted by TRC.

1.1.2 Initial Response Actions Undertaken by Others

In February 2002, additional site investigation work was conducted at the former KJHS. The initial work performed by VHB concluded that soils were within background levels typically observed in urban areas at the time of the investigation. An IRA Completion Statement was submitted to MassDEP on February 19, 2002.

In April 2006, The BETA Group, Incorporated of Norwood, Massachusetts (BETA) conducted additional soil sampling at the Site to provide supplemental subsurface information to the February 2002 historical data. A total of 12 soil borings were advanced and seven surface soil samples were collected (0 - 0.5 feet below grade). Of the 12 soil borings, four indicated the presence of fill material. Soil samples were collected and analyzed for polychlorinated biphenyls (PCBs), Resource Conservation and Recovery Act (RCRA) 8 metals, and polyaromatic hydrocarbons (PAHs) from soil borings where fill was encountered. Some samples were also

analyzed for the presence of semivolatile organic compounds (SVOCs). Several of the samples indicated detections of compounds that exceeded the MCP Method 1 S-1 soil standards. Compounds detected in excess of this standard include arsenic, cadmium, lead, and benzo(a)pyrene. BETA concluded that only cadmium exceeded MassDEP MCP published background standards. Therefore, BETA concluded in April 2006 that metals and PAH concentrations were consistent with background concentrations.

1.1.3 Initial Activities Undertaken by TRC

TRC's Licensed Site Professional (LSP) performed additional site reconnaissance of the KJHS property in October 2008.

TRC conducted additional soil testing on November 14, 2008 to further evaluate surface soil lead detections identified by VHB. The objective of TRC's scope of work was to address data gaps in prior work using total lead analysis to evaluate if residual impacted soil was present. TRC contracted New England Geotech of Jamestown, Rhode Island, to perform drilling activities at the Site under TRC field supervision. The borings were advanced using Geoprobe® direct push methods. The samples were visually examined in the field for evidence of petroleum impacts and field screened using the MassDEP jar headspace methodology and a photoionization detector (PID). Samples were collected from each boring at various depths.

TRC advanced a total of 11 soil borings to various depths, as identified on Figure 2, to evaluate potential petroleum impacts and to evaluate the presence of lead in surface soils. The 11 soil borings included five advanced in the vicinity of prior lead detections (soil borings LEAD1, LEAD2, LEAD3, LEAD4, and LEAD5). Lead concentrations exceeded MCP Method 1 S-1 soil standards at sample location LEAD-5 only.

TRC conducted a fill line delineation investigation, soil characterization and soil disposal pre-characterization sampling between January 20, 2009 and January 26, 2009. A total of 46 soil borings (boring locations TRC-1 through TRC-46) were installed using direct push drilling methods. Based on laboratory analytical results, an additional nine soil borings were installed between January 26 and January 29, 2009 (boring locations TRC-47 through TRC-55).

Based on preliminary design drawings provided by Mount Vernon Group (MVG), the athletic field project architect, the majority of the soil borings (locations TRC-1 through TRC-22 and TRC-30 through TRC-46) were installed in the east and northeast portions of the Site where subsurface construction activities (e.g., pump house, building foundation and detention basin) were proposed. The soil borings were geologically logged with the specific goal of determining the horizontal and vertical extent of fill material. Therefore, although previous data were used for guidance, the locations of the soil borings were ultimately dictated by field conditions. For example, fill material was observed in soil boring TRC-10, but not in boring TRC-9. Therefore, soil boring TRC-11 was advanced approximately halfway between TRC-9 and TRC-10 to more closely delineate the edge of the historic fill line. This interactive approach was employed throughout TRC's field activities associated with the historic fill line delineation.

In locations where historic fill material was encountered, soil borings generally exhibited fine sands overlaying fill material (e.g., ash, coal, brick, slag and glass) immediately above an organic peat or silt layer. Various sized sands were generally encountered at depth. In those locations in which such fill material was not encountered, the subsurface material generally consisted of various sized sands and gravels. All of the soil borings were screened with a PID using the MassDEP jar headspace method. PID screening results ranged from non-detect to 1.0 ppmv.

Soil characterization samples, from select soil borings drilled during the historic fill delineation investigation, were submitted for laboratory analysis of constituents, consistent with constituents identified in historic fill material at Walsh Field, as well as for pre-characterization of the fill material for potential disposal purposes. Soil borings targeted for pre-characterization sampling included TRC-1, TRC-10, TRC-17, TRC-37, TRC-39, and TRC-43. These soil borings were located in areas more likely to be disturbed by proposed construction activities (e.g., location of the proposed pump house, athletic building foundation, leaching field and pump discharge manhole). All of the soil samples were submitted for laboratory analysis of MCP Metals and mercury, PAHs, and PCBs. With the exception of soil boring TRC-43, samples of the fill material were also analyzed for Volatile Organic Compounds (VOCs), SVOCs, Total Petroleum Hydrocarbons (TPH) and Toxicity Characteristic Leaching Procedure (TCLP) Metals.

The laboratory results indicated the exceedance of MCP Method 1 S-1 soil standards for varied total metals at the following soil boring locations: TRC-1, TRC-10, TRC-17, TRC-25, TRC-28, TRC-29, TRC-37, TRC-39, TRC-43, TRC-47, TRC-48, TRC-49, TRC-50, TRC-51, TRC-52, TRC-53, TRC-54, and TRC-55. Concentrations of benzo(a)pyrene were also detected in excess of the MCP Method 1 S-1 soil standards at sample location TRC-17 at 5 feet. A summary of analytical results for detected analytes only are included in Table 1.

Five additional soil borings (i.e., TRC-23 through TRC-27) were installed in the vicinity of the former KJHS building footprint. These locations were selected by TRC based on the design drawings provided by MVG. All of the soil samples were submitted for laboratory analysis of MCP Metals, PAHs and PCBs. One sample from soil borings TRC-23 and TRC-24 was also analyzed for VOCs, SVOCs, TPH and TCLP Metals to facilitate management and potential off-site disposal of material in the area of the Site where a cut line was proposed. The only analytes detected in excess of MCP Method 1 S-1 soil standards from these five locations were chromium and nickel at sample location TRC-25 at 1 foot.

On January 26 and 29, 2009, nine additional borings (borings TRC-47 through TRC-55) were advanced utilizing the direct push method in order to fill data gaps related to the following soil borings: TRC-1, TRC-17, TRC-37 and TRC-39. All of the soil borings were geologically logged and field screened with a PID. Additional soil samples were submitted for laboratory analysis of total metals, TCLP metals and/or PAHs.

Three existing on-site monitoring wells (i.e., M-1 through M-3) could not be located by TRC prior to initiating investigation activities. Therefore, two permanent monitoring wells were installed at soil boring locations TRC-10 and TRC-39 (i.e., monitoring wells TRC-1 and TRC-2, respectively) to account for the loss of these data points. Following installation, TRC developed

the two newly installed wells and subsequently conducted groundwater sampling on January 29, 2009 using the low-flow protocol (low stress). Groundwater samples were submitted for laboratory analysis of total and dissolved SVOCs and total and dissolved metals. No constituents were detected above MCP GW-2 and GW-3 standards. A summary of groundwater sampling results is included in Table 2.

On April 13, 2009, TRC submitted a Release Abatement Measure (RAM) Plan to the MassDEP (TRC, 2009a). The RAM Plan outlined risk reduction measures that were to be undertaken by the City at the Former KJHS (New Andrea McCoy Field) property, in support of construction.

On April 17, 2009, TRC advanced 16 shallow soil borings to confirm the extent of historic fill prior to soil excavation activities on the Site. As documented in TRC (2009a), five excavation locations were targeted for risk reduction purposes (Areas 1 through 5). Soil boring TRC-45-A was advanced to delineate the data gap between excavation Areas 1 and 2. Soil borings A5-1 through A5-6 were advanced to the west of boring TRC-1 to confirm the horizontal extent of historic fill at that target excavation. Similarly, soil borings A3-1 through A3-9 were advanced to the south of boring TRC-55 to further delineate the Area 3 target excavation. Boring locations are identified on Figure 2. Samples A3-1 through A3-4 and A5-1 through A5-4 were submitted for laboratory analysis of total lead.

A summary of all soil sampling results for detected analytes is included in Table 1. Table 1 includes all historical sample results and all TRC sampling results. Soil boring logs and copies of the laboratory analytical data reports have been previously submitted in the RAM plan (TRC 2009a) and subsequent RAM status reports (TRC 2009b, 2010a, and 2010b).

On August 26, 2009, TRC was notified by JM Environmental (JME) that potential historic fill containing ash was encountered during the installation of a new precast concrete transformer vault in the northwest portion of the property. The excavation was approximately 10 feet wide by 20 feet long by 8 feet deep in size (approximately 59 cubic yards). All of the excavated historic fill was temporarily stockpiled on and covered with polyethylene sheeting.

On August 27, 2009, TRC personnel made a site visit to observe Site conditions, interview on-site personnel, and collect a composite soil sample for disposal characterization purposes. Although the new transformer vault had already been placed and backfilled, interviews and observation of the stockpiled material indicated the presence of glass, metal, a tar-like material, and ash within a soil matrix.

On September 18, 2009, TRC advanced five soil borings (i.e., TF-N, TF-E, TF-S, TF-S2 and TF-S3) using Geoprobe® direct push technology in the vicinity of the new transformer vault (see Figure 2). A step-out sampling approach was employed to delineate the lateral and vertical extents of potential soil impacts. The general protocol for the delineation sampling called for the advancement of inner soil borings (TF-N, TF-E and TF-S) and associated sample collection approximately five feet north, east and south of the new transformer vault. No borings were advanced west of the new transformer vault due to the presence of utilities. If field screening (e.g., visual soil inspection, PID screening, etc.) determined fill material or impacted soil was

present, soil samples were collected and a step-out soil boring (e.g., TF-S2) was advanced approximately five feet further from the prior sample location.

TRC conducted field screening of soil samples consisting of visual and olfactory observations, jar headspace readings using an appropriately calibrated PID, and professional judgment, consistent with TRC Standard Operating Procedures (SOPs) and general industry practice. TRC employed the MassDEP jar headspace technique to screen for the presence of VOCs in soil. TRC also evaluated and logged the geologic character of the soil samples consistent with the Burmeister (1958) method.

Several shallow soil samples (within the 0 to 3-foot soil horizon) were collected for volatile petroleum hydrocarbon (VPH) and extractable petroleum hydrocarbon (EPH) analysis. In addition, a deeper soil sample was collected from each soil boring for VPH and EPH analysis. If field observations (e.g., visual soil inspection, PID screening, etc.) indicated fill material was not present, a sample was collected at the depth corresponding to previously observed fill material to determine the lateral extent of the historic fill. Soil borings were advanced until native overburden was encountered.

Two samples (TF-N [6-7/7] and TF-S [5-6/6]) indicated results above the MCP Method 1 soil standards for C19-C36 Aliphatics and C11-C22 Aromatics of 3,000 and 1,000 mg/kg, respectively. The concentrations of C19-C36 Aliphatics in TF-N (6-7/7) and TF-S (5-6/6) were 10,000 and 50,000 mg/kg, respectively. The concentrations of C11-C22 Aromatics in TF-N (6-7/7) and TF-S (5-6/6) were 6,800 and 21,000 mg/kg, respectively. Soil boring TF-N is located approximately five feet north of the new transformer vault, while soil boring TF-S is located approximately five feet south of the new transformer vault.

The southern and eastern lateral extents of impacts were delineated based on the analytical results of the September 18, 2009 investigation. In addition, petroleum-related impacts were limited to a relatively thin zone approximately six to seven feet below grade. However, based on the exceedances of MCP Method 1 soil standards in soil boring TF-N, the northern extent of impacts had not been adequately delineated. Three additional step-out soil borings (TF-N2, TF-N4 and TF-N6) were advanced on November 25, 2009 using Geoprobe® direct push technology approximately 10, 20 and 30 feet north of the new transformer vault (see Figure 2).

The two additional soil borings nearest the new transformer vault (TF-N2 and TF-N4) were sampled at both shallow (2 to 3 feet below grade) and deeper (7 to 8 feet below grade) intervals for VPH and EPH following the investigative approach employed on September 18, 2009. It should be noted that the grade in this portion of the Site had recently been raised approximately 2 feet in elevation in support of construction activities. As a result, the shallow soil samples from TF-N2 and TF-N4 were collected from the 2 to 3 foot depth (i.e., below the newly placed material). Soil boring TF-N6 was only sampled at a depth of 6 to 7 feet for VPH and EPH. The fill material observed in soil boring TF-N6 appeared to be consistent with historic fill material observed within other portions of the former KJHS Site. Sample TF-N6 was also submitted for the laboratory analysis of PCBs and MCP Metals (including mercury).

The laboratory results for three samples (TF-N2 [8 feet], TF-N4 [8 feet] and TF-N6 [7 feet]) exhibited concentrations exceeding the MCP Method 1 S-1 soil standards for C19-C36 Aliphatics, C11-C22 Aromatics, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and/or indeno(1,2,3-cd)pyrene. In addition, sample TF-N6 [7 feet] exhibited a lead concentration (630 mg/kg) in excess of the MCP Method 1 S-1 soil standard of 300 mg/kg. Analytical results for the sampling events associated with the installation of the transformer vault (dated September 18, 2009 and November 25, 2009) are presented in Table 3 (detected analytes only).

Summary of TRC Investigation Activities

Soil Sampling

Location	Soil Borings/ Sampling Locations	Number of Soil Samples Submitted for Laboratory Analysis	Analyses[1]						
			PCBs[2]	SVOCs[3]	VOCs[4]	MCP Metals/Hg[5]	TCLP[6] Metals	EPH[7]	VPH[8]
Keith Junior High School	76	140[1]	46	58	8	105	53	9	9

Groundwater Sampling

Location	Number of Groundwater Samples Submitted for Laboratory Analysis	Analyses[1]		
		SVOCs[3]	Total MCP Metals/Hg[5]	Dissolved MCP Metals/Hg[5]
Keith Junior High School	2	2	2	2

Notes:
[1]Does not include quality control (QC) samples.
[2]Polychlorinated biphenyls (PCBs) as Aroclors by SW-846 Method 8082
[3]Semivolatile Organic Compounds (total and dissolved collected to evaluate partitioning).
[4]Volatile Organic Compounds
[5]Massachusetts Contingency Plan (MCP) Metals/Hg – antimony, arsenic, barium, beryllium, cadmium, chromium, lead, nickel, selenium, silver, thallium, vanadium, zinc and mercury by SW-846 Methods 6010B/7471A.
[6]Toxicity Characteristic Leaching Procedure
[7]Extractable Petroleum Hydrocarbons
[8]Volatile Petroleum Hydrocarbons

1.2 Objective

TRC completed this RAO Statement in accordance with 310 CMR 40.1056 (Content of Response Action Outcome Statements) to document that a Condition of No Significant Risk exists utilizing a comparison to MCP Method S-1 standards, and the requirements of a Class A-3 RAO are met.

1.3 RAO Minimum Content Information – 310 CMR 40.1056(1)

1.3.1 Disposal Site Information – 310 CMR 40.1056(1)(a)

Consistent with 310 CMR 40.1056(1)(a) of the MCP, the following table summarizes the required Disposal Site Information.

Site/Disposal Site Name	Former Keith Junior High School
Address	70 Hathaway Boulevard
City	New Bedford
Release Tracking Number (RTN)	4-15685

1.3.2 Class of Response Action Outcome – 310 CMR 40.1056(1)(b)

As described herein, the Release Abatement Measure conducted at the Site by TRC succeeded in achieving a Class A-3 Response Action Outcome consistent with 310 CMR 40.1036(3) of the MCP. Note that although the source of the fill impacts at the Site are principally associated with an ash-laden historic urban fill, the RAO has been achieved without consideration of the origin of the ash and coal fill and the consistency of Site analytical results when compared with coal, coal-related ash, and wood-related ash analytical results as described herein

1.3.3 Risk Characterization Method Employed – 310 CMR 40.1056(1)(c)

A Method 1 Risk Characterization was conducted to characterize the potential risk of harm posed by the Site to health, public welfare, and the environment, pursuant to 310 CMR 40.0900. As described herein, a condition of No Significant Risk has been achieved.

1.3.4 Relationship to Other RAO Statements – 310 CMR 40.1056(1)(d)

No other release conditions or RAOs are known to exist in relation to the Site other than that described herein for RTN 4-15824. A Special Project Designation for the Keith Middle School (KMS) / McCoy Field Site (RTN 4-15685) includes RTN 4-15824, but the KJHS UST release RTN is not otherwise associated with the KMS Site.

1.3.5 Post-RAO Active Operation and Maintenance – 310 CMR 40.1056(1)(e)

Post-RAO Active Operation and Maintenance is not required; a Class A-3 RAO applies to this Site.

1.3.6 Activity and Use Limitation Summary – 310 CMR 40.1056(1)(f)

An Activity and Use Limitation (AUL) is required to achieve a condition of No Significant Risk below three feet on a portion of the Site. A Class A-3 RAO applies to this Site.

1.3.7 Licensed Site Professional (LSP) Opinion – 310 CMR 40.1056(1)(g)

The LSP Opinion provided on Form BWSC-104, the Response Action Outcome Statement Transmittal Form, accompanies this RAO Statement in Appendix B.

1.3.8 Certification of Submittal – 310 CMR 40.1056(1)(h)

The Certification of Submittal on Form BWSC-104, the Response Action Outcome Statement Transmittal Form, accompanies this RAO Statement in Appendix B.

1.3.9 Upper Concentration Limits – 310 CMR 40.1056(1)(i)

None of the oil or hazardous material (OHM) constituents were detected at the Site at exposure point concentrations that exceeded corresponding Upper Concentration Limits (UCLs).

2.0 RESPONSE ACTION OUTCOME SUPPORTING DOCUMENTATION

2.1 Disposal Site Location Description – 310 CMR 40.1056(2)(a)

The Site is located at the property of the former Keith Junior High School, an 11.3-acre parcel at 70 Hathaway Boulevard in New Bedford, Massachusetts. The Site is bordered by residential apartments across Hathaway Boulevard to the west, residential properties to the north and south, and athletic fields across Hunter Street to the east.

The approximate coordinates of the Site are 41.6404 North, 70.9480 West. The Universal Transverse Mercator (UTM) coordinates for the Site are 4611690.86 meters north and 337759.58 meters east. The former KJHS building was demolished in 2008.

Site Boundary. The Site Boundary is illustrated in Figure 2.

Proximity to Environmental Resources. The Site's proximity to environmental resources is illustrated in Figure 3, which presents a MassDEP Site Scoring Map with five hundred foot and one half-mile radii as measured from the Site.

Property Owner. The Site property is owned by the City of New Bedford School Department.

Site Use and Area Land Use. The Site property is currently an open lot with areas for different sporting events (i.e., football field, track, tennis courts, etc.). Surrounding land use is predominantly residential, recreational, with some commercial land use (rock climbing gym).

Institutions. No institutions are known to be present at or near the Site. The Site lies within 400 feet of New Bedford High School (NBHS).

Residential Population. An estimated 2,500 people reside within a ½-mile radius of the Site. This estimate is based on the proportion of the City of New Bedford found within a ½-mile radius of the Site and community profile population data obtained from the official Commonwealth of Massachusetts website (DHCD, 2007).

Drinking Water Source Areas. Based on review of the MassDEP Site Scoring Map (see Figure 3), the Site is not located within a Zone II or Zone A of a drinking water supply area, an Interim Wellhead Protection Area (IWPA), or a potentially productive aquifer (PPA). The Site was formerly serviced by the City municipal water supply, which has since been disconnected with the demolition of the KJHS building completed in the summer of 2008.

Public/Private Wells. No private or non-municipal public wells are located within 500 feet of the Site. There are no municipal wells located within 1,000 feet of the Site.

Environmental Concerns/Receptors. The Site is located in New Bedford in a highly urbanized area. There is no surface water or wetland habitat. The nearest water bodies are the New Bedford Harbor, which is located approximately 1.3 miles to the east of the Site; the KMS

wetland located approximately 1,160 feet northwest of the Site; and an associated outfall/stream located approximately 2,430 feet northwest of the Site. There are no endangered species habitats, Areas of Critical Environmental Concern (ACECs) and/or certified vernal pools within 500 feet of the Site.

2.2 Elimination or Control of Uncontrolled Sources – 310 CMR 40.1056(2)(b)

The following describes the work undertaken and completed by TRC and others to address the historical fill at the Site under RTN-15824.

2.2.1 Prior Work Undertaken by Others

Prior work undertaken by VHB and BETA consisted of investigative work only, as previously described in Section 1.1.2.

2.2.2 Work Undertaken by TRC

Work undertaken by TRC, as described in Section 1.1.3, consisted of investigative work in support of remedial planning at KJHS. Soil exposure point concentrations (EPCs) under baseline conditions indicated a condition of No Significant Risk had not been achieved for soil under current and future use scenarios at the Site. Four areas of impacted historic fill material were targeted for soil excavation at sample locations TRC-1, TRC-17, TRC-37 and TRC-39, in order to attain a condition of No Significant Risk.

The four targeted areas were excavated as Release Abatement Measures (RAMs) in accordance with the April 13, 2009 RAM Plan as follows:

- At sample location TRC-1, identified as Area 5 on Figure 2, the area delineated for excavation was determined to be bounded by samples TRC-28, A5-1, A5-2, and the property corner.

- At sample location TRC-17, identified as Area 1 on Figure 2, the area delineated for excavation was determined to be bounded by samples TRC-49, TRC-48, TRC-47, and TRC-20.

- At sample location TRC-37, identified as Area 2 on Figure 2, the area delineated for excavation was determined to be bounded by samples TRC-51, TRC-52, TRC-45A, and TRC-36.

- At sample location TRC-39, identified as Area 3 on Figure 2, the area delineated for excavation was determined to be bounded by samples TRC-53, TRC-54, A3-3, and TRC-32.

Soils that were managed as part of construction activities that were not part of the aforementioned effort were segregated and stockpiled on-site pending site-related reuse (Area 6

and Area 7 Soils as identified on Figure 2). Impacted soils excavated from Areas 1, 2, 3, and 5 were placed on polyethylene sheeting (6-mil minimum) and covered prior to off-site reuse, recycling and/or disposal. Areas 1 through 5 are identified on Figure 2.

As summarized below, approximately 2,032 tons of soil were excavated from Areas 1, 2, 3, and 5 as part of RAM activities at the Site between May 1, 2009 and June 5, 2009. Excavated soils were then transported off-site for reuse, recycling or disposal as follows:

- § Area 1, Area 2 and Area 5 Soils – Approximately 1,242 tons of impacted soil were excavated on May 1, 4, 5, and 11, 2009 as part RAM activities. Impacted soils from Area 1, Area 2, and Area 5 were temporarily stockpiled on polyethylene sheeting (6-mil minimum) and securely covered by same prior to off-site disposal for reuse at the Greenwood Street Landfill in Worcester, Massachusetts on May 28 and 29, 2009 as well as on June 1, 2009. Final copies of bill of lading (BOL) paperwork were provided in the RAM Status Report dated February 2010. Note that excavation within Area 4 was conducted on June 1, 2009 as part of RAM activities associated with RTN 4-15824,as discussed in the RAO Statement Report for RTN 4-15824 dated June 2010 (TRC, 2010b).

- § Area 3 Soils – Approximately 625 tons of impacted soil was excavated on May 5 and 8, 2009 as part RAM activities. Impacted soils were temporarily stockpiled on polyethylene sheeting and securely covered by same prior to off-site disposal for reuse at the Greenwood Street Landfill in Worcester, Massachusetts on June 4, 2009. Area 3 soils were further separated into two stockpiles due to the discovery of debris during excavation activities (stockpile deemed Area 3D). The Area 3D stockpile consisted of approximately 50-percent roofing materials (asphalt shingle) and 50-percent soil. Approximately 163 tons of soil and debris were shipped via railcar and disposed of at Sunny Farms Landfill in Fostoria, Ohio on June 1, 2009 via Champion City Recovery in Brockton, Massachusetts.

- § On-site Soil Treatment – On May 12 through May 22, 2009, TRC conducted oversight of on-site stabilization treatment of lead impacted soils stockpiled from Areas 1, 2, 3, and 5 prior to off-site shipment. Soils were treated by mixing with Terra-Bond™ dry magnesium mixture (Terra-Bond™) material.

- § Like-Site Soil Management Approach – On June 26, 2009 TRC submitted a letter to MassDEP describing a "like-site" soil management approach in order to facilitate the management of the estimated 40,000 cubic yards of excess soil (majority of soil from Area 7) that needed to be managed for earthwork operations to reach final grades for the New Andrea McCoy Field. JME performed test pits and collected 26 soil samples in cut Areas 6 and 7 for PAHs, RCRA 8 metals, and PCB analysis from composite samples. JME proposed to use this data set to support "like-site" soil management planning. JME's sample analysis focused on metals, PAHs, and PCBs. The data collected from this effort were provided in the RAM Status Report dated August 2010. The soil samples

were collected from both the topsoil material as well as from the underlying soil/fill from the cut areas.

In accordance with the aforementioned June 2009 letter, approximately 42,173 cubic yards of excess soil has been shipped to one of three commercial "like-sites" to date. All soils were managed using MassDEP material shipping records (MSRs) applicable to materials not subject to management under 310 CMR 40.0035 of the MCP nor manifesting under 310 CMR 30.000. Additional information, including copies of all completed MSR transactions, was provided in the RAM Status report dated February 2010.

Excavation and disposal of the impacted soils achieved a Condition of No Significant Risk. A summary of soil analytical detected results for the Site is included in Table 1.

Additional Site soil management activities included the following:

§ Athletic Field Lighting Installation – Construction of the new football field/track and tennis courts required the installation of twelve lighting towers. An auger was used to remove soil to approximately 10 to 18 feet below grade (depending on the specific location of each tower) to facilitate the installation of concrete footings for each of the towers between September 15 and September 23, 2009.

Three of the lighting towers are located adjacent to Hunter Street in the southeast portion of the property (east of Area 6) and fall within the Site boundary. Soil that was displaced during the installation of these three footings was segregated for off-site reuse, recycling and/or disposal. The excavated soils were temporarily staged on polyethylene sheeting (6-mil minimum) and covered with polyethylene sheeting in three individual stockpiles adjacent to each light tower. On September 29, 2009, the three stockpiles were combined and staged in the northern portion of the Site. TRC provided oversight during these activities and the material was placed on and covered with polyethylene sheeting consistent with the April 13, 2009 RAM Plan and associated SMP pending analytical characterization for off-site disposal.

The other nine lighting towers are located within RAM Plan Area 6 and Area 7, where soils were pre-characterized for on-site reuse. TRC provided environmental oversight during soil removal activities. There was no evidence that fill material was encountered during excavation of these footings.

§ Sidewalk and Curbing Demolition – The existing sidewalk and curbing along the west side of Hunter Street was demolished in order to facilitate the installation of a new sidewalk. Although the demolition activities required no excavation of soil, the work area is within the Site boundary. TRC provided environmental oversight during the activities.

§ Fence Footings – On November 30, 2009, DW White excavated five areas along the northwest property boundary to facilitate the installation of concrete footings for

permanent perimeter fencing. The excavations were approximately 4 feet by 4 feet square and approximately 4 to 5 feet deep. The excavations were evenly spaced between immediately south-southwest of the new transformer pad and the northwest corner of the property.

Due to the proposed excavation depths, DW White did not anticipate encountering impacted soils. When visual signs of impacted fill were discovered, DW White notified TRC. TRC made observations of the site conditions and provided environmental oversight as excavation activities continued. Limited amounts of fill material (i.e., brick, concrete, glass, tar-like material and/or ash and metal) were observed in four of the five excavations. This material (approximately 12 cubic yards of soil/fill mixture) was segregated on polyethylene sheeting and covered pending analytical characterization and off-site disposal consistent with the April 13, 2009 RAM Plan and associated SMP.

The stockpiled material was subsequently sampled for disposal characterization purposes by JME.

§ Parking Lot Lighting Piers – On December 15, 2009, DW White excavated several areas throughout the new parking lot in the northern portion of the property in association with the installation of concrete footings for light posts. Due to the fact that the majority of the footings were placed in areas outside the known Site boundary and in and around the new parking lot where recently imported material has raised the grade by approximately 3 feet, DW White did not anticipate encountering fill material and TRC was not notified in advance of the excavation activities.

Upon meeting with DW White on December 17, 2009, TRC determined that small amounts of fill material were encountered during excavation of the two easternmost light post footings (located approximately between Area 1 and Area 5). This material (approximately 4 cubic yards of soil/fill mixture) was segregated on and covered with polyethylene sheeting, consistent with the April 13, 2009 RAM Plan and associated SMP, pending disposal characterization sampling.

The stockpiled material was subsequently sampled for disposal characterization purposes by JME.

The stockpiled materials from the aforementioned soil management activities were loaded and transported off-site to the Greenwood Street Landfill and included the following:

§ Approximately 246 tons of soil/fill material associated with the installation of lighting towers, parking lot lighting piers, storm drain lines, URAM-related fire and water lines and the precast concrete transformer vault were shipped off-site between May 3, 2010 and May 5, 2010.

§ Approximately 264 tons of treated material (select lead impacted soil material underwent on-site stabilization treatment) associated with fence footing installation and URAM-

related directional drilling activities and untreated material associated with construction of the leaching chamber were shipped off-site between June 1, 2010 and June 3, 2010.

A portion of the treated material shipped on June 1, 2010 (approximately 10 cubic yards) was related to URAM activities as detailed in TRC's URAM Status Report submitted to MassDEP on July 15, 2010.

2.3 Extent of Site Chemical Impacts

This section describes the horizontal and vertical extent of impacts for chemicals of concern identified during TRC's subsurface investigations and during previous assessments conducted by VHB and BETA, as presented in previous reports for the Site.

2.3.1 Soil

Chemicals detected in soil samples collected from the Site in excess of MCP Method 1 S-1 soil standards for unrestricted use include metals (antimony, arsenic, barium, cadmium, chromium, lead, and nickel), PAHs [benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene], and EPH (C19-C36 Aliphatics, and C11-C22 Aromatics). The discussion of the extent of impacts focuses on Site chemicals that are indicative of a group of compounds (i.e., benzo(a)pyrene for the PAH group of chemicals), and include the following: arsenic, cadmium, chromium, lead, benzo(a)pyrene, and EPH. All of these chemicals are likely related to the historic fill encountered at portions of the Site.

A distinct localized area of impacted soil was discovered during the installation of a transformer pad/vault in the northwest portion of the Site, along Hathaway Boulevard. Therefore, for the purposes of this risk characterization, the Site was treated as two area of interest (i.e., exposure points) for the purpose of calculating Exposure Point Concentrations (EPCs) and evaluating risk. Tables summarizing the results of chemical analysis for soil samples collected at the Site are provided as Table 1 and Table 3 (transformer area).

Arsenic. Arsenic was detected at concentrations above the MCP Method 1 S-1 soil standards in the 0 to 3 feet and the greater than 3 feet horizons. In the 0 to 3 feet horizon, arsenic exceeded the MCP Method 1 S-1 soil standard at one sample location (Keith SS-5), but the location of the sample could not be determined. In the greater than 3 foot horizon, arsenic exceeded the MCP Method 1 S-1 soil standard at four sample locations (TRC-10, TRC-28, TRC-52, and TRC-54) in the eastern portion of the Site.

Barium. Barium was detected at concentrations above the MCP Method 1 S-1 soil standard in the greater than 3 feet horizon at one sample location (TRC-47 at 5 feet) located in the northeast corner of the Site.

Cadmium. Cadmium was detected at concentrations above the MCP Method 1 S-1 soil standard in the 0 to 3 feet and greater than 3 feet horizons. In the 0 to 3 feet horizon, cadmium exceeded the MCP Method 1 S-1 soil standard at one sample location (Keith S-1), but the location of the

sample could not be determined. In the greater than 3 feet horizon, cadmium exceeded the MCP Method 1 S-1 soil standard at six sample locations (TRC-10 at 4 and 9 feet, TRC-47 at 5 feet, TRC-48 at 4 feet, TRC-53 at 4 feet, and TRC-54 at 4 feet) in the northeastern portion of the Site.

Chromium. Chromium was detected at concentrations above the total chromium based MCP Method 1 S-1 soil standard in the greater than 3 feet horizon. In the greater than 3 feet horizon, chromium exceeded the MCP Method 1 S-1 soil standard at three sample locations (TRC-10 at 4 feet, TRC-50 at 7 feet, and TRC-54 at 4 feet) in the northeastern portion of the Site.

Lead. Lead was detected at concentrations above the MCP Method 1 S-1 soil standard in the 0 to 3 feet and the greater than 3 feet horizons. In the 0 to 3 foot horizon, lead exceeded the MCP Method 1 S-1 soil standard at seven sample locations (Keith S-1 [location unknown], Keith S-2 [location unknown], Lead- 5, TRC-25 at 1 foot, TRC-41 at 1 foot, A5-1, and A5-2) in the eastern portion of the Site. In the greater than 3 feet horizon, lead exceeded the MCP Method 1 S-1 soil standard at thirteen sample locations (SS-4, TRC-10 at 4 and 9 feet, TRC-28 at 4.5 feet, TRC-43 at 4 feet, TRC-47 at 5 feet, TRC-48 at 4 feet, TRC-49 at 5 feet, TRC-51 at 4 feet, TRC-52 at 4 feet, TRC-53 at 4 feet, TRC-54 at 4 feet, TRC-54 at 4 feet, and TF-N6 at 7 feet) in the eastern portion of the Site, with the exception of sample location TF-N6 which is located in the northwestern corner of the Site (the transformer area).

Nickel. Nickel was detected at concentrations above the MCP Method 1 S-1 soil standard in the 0 to 3 feet and greater than 3 feet horizons. In the 0 to 3 feet horizon, nickel exceeded the MCP Method 1 S-1 soil standard at one sample location (TRC-25 at 1 foot) in the southeastern portion of the Site. In the greater than 3 feet horizon, nickel exceeded the MCP Method 1 S-1 soil standard at five sample locations (TRC-10 at 4 feet, TRC-47 at 5 feet, TRC-48 at 4 feet, TRC-51 at 4 feet, and TRC-54 at 4 feet) in the northeastern portion of the Site.

Benzo(a)pyrene. Benzo(a)pyrene was detected at concentrations above the MCP Method 1 S-1 soil standard in the 0 to 3 feet and greater than 3 feet horizons. In the 0 to 3 feet horizon, benzo(a)pyrene exceeded the MCP Method 1 S-1 soil standard at one sample location (Keith S-9 [location unknown]). In the greater than 3 feet horizon, benzo(a)pyrene exceeded MCP Method 1 S-1 soil standards at two sample locations (TF-N4 at 8 feet and TF-N6 at 7 feet) in the northwestern corner of the Site (the transformer area).

EPH. EPH ranges were detected at concentrations above the MCP Method 1 S-1 soil standards in the greater than 3 feet horizon. In the greater than 3 feet horizon, EPH range C19-C36 Aliphatics exceeded the MCP Method 1 S-1 soil standard at four locations (TF-N at 6-7 feet, TF-S at 5-6 feet, TF-N2 at 7.5-8 feet, and TF-N4 at 8 feet), and EPH range C11-C22 Aromatics exceeded the Method 1 S-1 soil standard at five locations (TF-N at 6-7 feet, TF-S at 5-6 feet, TF-N2 at 7.5-8 feet, TF-N4 at 8 feet, and TF-N6 at 7 feet), in the northwestern corner of the Site (the transformer area).

2.3.2 Groundwater

The results of the analysis of groundwater at the Site for total and dissolved SVOCs and MCP Metals did not indicate the presence of impacts to groundwater at the Site. All concentrations were below the MCP Method 1 GW-2 and GW-3 groundwater standards for all parameters.

The locations of monitoring wells sampled are presented on Figure 2. Groundwater sampling results are presented on Table 2.

2.3.3 Imminent Hazards

An Imminent Hazard is not present at this Site following performance of remedial actions. This determination was based on a review of criteria set forth at 310 CMR 40.0321(1) and 310 CMR 40.0321(2).

2.4 Achievement of Level of No Significant Risk – 310 CMR 40.1056(2)(c)

As discussed in Section 3, the response actions have successfully reduced EPCs of Oil and Hazardous Materials (OHM) at the Site below MCP Method 1 S-2/GW-2/GW-3 and S-1/GW-2/GW-3 standards, resulting in the achievement of a Condition of No Significant Risk in the top three feet of soil.

2.5 Elimination of Substantial Hazards – 310 CMR 40.1056(2)(d)

The Elimination of Substantial Hazards requirement is not applicable and applies only to Class C RAOs. A Class A-3 RAO has been achieved for RTN 4-15685.

2.6 Achievement of Background – 310 CMR 40.1056(2)(e)

A Class A-3 RAO has been achieved for the Site. A Permanent Solution has been achieved and the concentrations of OHM in the environment have been reduced below Method 1 S-1 soil standards in the top three feet of soil. The residual constituent concentrations detected by TRC are above MCP published background, defined by 310 CMR 40.0006 of the MCP, but are consistent with historic fill in the AUL portion of the Site.

The available soil sampling results described herein document soil removal activities and the presence of ash-bearing fill material in remaining soil/fill. Soil EPCs show that impacted soil concentrations are below Method 1 S-1 soil standards. The soil results do not fully achieve background at this Site, as the maximum concentration of certain chemicals exceed the MassDEP Background Concentrations in soil containing coal ash or wood ash (hereinafter "Ash Background") published in the May 2002 Technical Update. However, a comparison of Site data for remaining soils with that utilized for Ash Background in the Technical Update supports a conclusion that the remaining soils at the Site approach that of Ash Background in the Technical Update. A comparison of the 90th percentile value of Site soil concentrations to Ash Background concentrations (which were based on the 90th percentile value of ash containing soil

concentrations the database utilized by MassDEP for the preparation of the Technical Update) indicates that PAH soil concentrations are below Ash Background concentrations for PAHs at the Site. The 90th percentiles for most metals detected at McCoy are also below Ash Background concentrations for metals at the Site. A comparison of the maximum concentration of PAHs and metals detected at the Site with the maximum concentrations utilized for the Ash Background determination, indicate that Site soil maximum concentrations are at or below Ash Background, with the exception of barium. A comparison of Site data to Ash Background data is included in Table 4. These data suggest that any additional remedial activity is not warranted and would be substantial and disproportionate to the net gain in risk reduction and/or background achievement. A Class A-3 RAO is applicable for closeout of RTN 4-15685 at the Site.

Please see additional discussion concerning the feasibility of achieving background in Section 4.0.

2.7 Upper Concentration Limits – 310 CMR 40.1056(2)(f)

Not applicable. No chemical EPCs associated with RTN 4-15685 exceed UCLs. A Class A-3 RAO has been achieved for RTN 4-15685.

2.8 Activity and Use Limitation Documentation – 310 CMR 40.1056(2)(g)

An Activity and Use Limitation (AUL) is required to maintain a Condition of No Significant Risk on a portion of the Site. A Class A-3 RAO has been achieved for RTN 4-15685. Included in Appendix C is a copy of the AUL certified by the registry of deeds office which has been implemented under 310 CMR 40.1070.

2.9 Activity and Use Limitation Opinion – 310 CMR 40.1056(2)(h)

An Activity and Use Limitation (AUL) is necessary to maintain a Condition of No Significant Risk on apportion of the Site. A Class A-3 RAO has been achieved for RTN 4-15685. Included in Appendix C are an AUL Opinion and AUL Opinion Form.

2.10 Operation, Maintenance, and Monitoring – 310 CMR 40.1056(2)(i)

Operation and maintenance is not necessary to maintain a Condition of No Significant Risk. A Class A-3 RAO has been achieved for RTN 4-15685.

3.0 HUMAN HEALTH RISK CHARACTERIZATION AND EXPOSURE ASSESSMENT [310 CMR 40.1056(1)(C)]

3.1 Introduction [310 CMR 40.0900]

This section was prepared consistent with 310 CMR 40.0835(4)(g) and (h) of the MCP and Appendix F of the MassDEP *Guidance for Disposal Site Risk Characterization* (MassDEP, 1995) and provides an exposure assessment and risk characterization for the former KJHS property. The risk characterization addresses human and environmental receptors reasonably expected to be at and near these areas. As discussed herein, a Method 1 approach was selected to characterize risk at this area. Supporting data tables used to evaluate potential risk at the Site are contained in Appendix D of this report.

As described previously, MassDEP tracks two separate releases at the Site. RTN 4-15685 is associated with historical fill along Hunter Street and the finding of a distinct localized area of subsurface petroleum-impacted soils in the northwestern portion of the Site, along Hathaway Boulevard. RTN 4-15824 tracks petroleum impacts associated with a UST that was removed and associated impacted soil excavated to background conditions. Therefore, this risk characterization addresses only the historical fill-related impacts (i.e., the fill exposure point) and the localized area of petroleum-impacted soils along Hathaway Boulevard (i.e., the petroleum exposure point).

3.2 Adequacy of Site Characterization

3.2.1 Investigated Media

Soil was evaluated during environmental investigations at the Site by VHB between 2000 and 2002, by BETA in 2006 and by TRC in 2008 and 2009. Groundwater was evaluated by TRC in January 2009. Table D-1 in Appendix D presents the soil data available for the Site. Samples highlighted in red on Table D-1 in Appendix D were either excavated or are beyond the area of mapped fill and display background or non-detect levels of Site-related chemicals, or are associated with the RTN 4-15824 (excavated UST soils or soils remaining that are representative of background conditions). The red-highlighted samples have not been used quantitatively in this risk characterization. For a small number of red-highlighted locations that were excavated, the deepest sampling interval was quantitatively used in the evaluation since the excavation was terminated before the depth of the deepest sampling interval. These deep samples (highlighted in green on Table D-1 in Appendix D) were quantitatively used in the evaluation.

3.2.1.1 Soil

Benzo(a)pyrene, antimony, arsenic, barium, cadmium, chromium, lead and nickel soil concentrations at the fill exposure point were greater than MCP Method 1 S-1/GW-2 and/or S-1/GW-3 standards. C19-C36 aliphatic hydrocarbons, C11-C22 aromatic hydrocarbons, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and lead soil concentrations at the petroleum exposure point were greater than MCP Method 1 S-1/GW-2

and/or S-1/GW-3 standards. Concentrations of chemicals in soil are presented on Table D-1 in Appendix D. No PCBs were detected above MCP Method 1 S-1/GW-2 and/or S-1/GW-3 standards in any individual soil sample location at the Site. As noted in sections 2.6 and 4.0, the available soil sampling results described herein document the presence of ash-bearing fill material in remaining soil/fill in the AUL area. A comparison of Site data for remaining soils with that utilized for Ash Background in the MassDEP Technical Update supports a conclusion that the remaining soils in the AUL area at the Site approach that of Ash Background in the Technical Update.

The areas where soil concentrations exceed MCP Method 1 S-1/GW-2 and/or S-1/GW-3 standards are depicted on Figure 4.

The areas of soil impacts in excess of MCP Method 1 S-1 standards are associated with the historic fill exposure point along Hunter Street and a localized area of petroleum-impacted soil that was discovered during the installation of a transformer pad/vault in the northwest portion of the Site, along Hathaway Boulevard. Therefore, for the purposes of this risk characterization, the Site will be treated as two area of interest (i.e., exposure points) for the purpose of calculating EPCs and evaluating risk. Those soil samples collected from beyond the areas where fill and petroleum-related chemicals have been identified and displaying MCP published background or non-detect levels have been excluded from the data set used to calculate EPCs.

3.2.1.2 Groundwater

Two permanent monitoring wells (TRC-1 and TRC-2) were sampled on January 29, 2009 using the low-flow protocol (low stress). No chemicals were detected above MCP GW-2 or GW-3 standards. The analytical data are summarized in Table D-2 in Appendix D.

3.2.2 Extent of Impacts

The nature and extent of impacts has been analyzed and is discussed in Section 2.3. The nature and extent has been sufficiently delineated to support this RAO and risk characterization.

3.2.2.1 Horizontal and Vertical Extent

The horizontal and vertical extents of soil impacts are described in Section 2.3. In general, the extent of impacted soil at the Site is consistent with the location of mapped historical fill. The localized area of subsurface petroleum-impacted soils has been investigated and the extent of impacts delineated.

The groundwater investigation is described in Section 2.3. No impacts to groundwater are evident,

3.2.2.2 Background Concentrations

Site-specific background concentrations were not characterized in soil and groundwater.

For the purposes of this risk characterization, background concentrations for PCBs and petroleum hydrocarbons (other than PAHs) are considered to be non-detect. Even though the presence of fill containing coal, coal ash or wood ash is present at the Site that can be shown to be consistent with MassDEP ash background, background concentrations of metals and PAHs selected for use are MassDEP "Natural Soil" background concentrations as presented in the *Technical Update Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil* (MassDEP, 2002b).

3.2.2.3 Existing or Potential Migration Pathways

Consistent with 310 CMR 40.1003(5), the source of OHM has been reduced or eliminated by the removal work undertaken by TRC. Groundwater monitoring indicated that there are no impacts to groundwater, as is consistent with Site chemicals. As volatile organic compounds have not been detected in soils or groundwater at the Site other than trace detections in soil in the vicinity of the newly installed transformer, vapor intrusion is not a migration pathway of concern. Potential migration pathways are illustrated on Figure 5, the Site Conceptual Model.

3.2.3 Chemicals of Concern

Chemicals of Potential Concern (COPCs) are those with individual detected concentrations in excess of MCP published background concentrations or chemicals for which background concentrations have not been established. The following table summarizes the COPCs at the former KJHS property and the media in which they were detected.

Chemicals of Potential Concern	
Chemicals	**Affected Media**
Ethylbenzene	Soil – Petroleum Exposure Point
Naphthalene	Soil – Petroleum Exposure Point
Toluene	Soil – Petroleum Exposure Point
o-Xylene	Soil – Petroleum Exposure Point
Acenaphthene	Soil – Petroleum Exposure Point
Acenaphthylene	Soil – Petroleum Exposure Point
Anthracene	Soil – Petroleum Exposure Point
Benzo(a)anthracene	Soil – Fill and Petroleum Exposure Points
Benzo(a)pyrene	Soil – Fill and Petroleum Exposure Points
Benzo(b)fluoranthene	Soil – Fill and Petroleum Exposure Points
Benzo(g,h,i)perylene	Soil – Fill and Petroleum Exposure Points
Benzo(k)fluoranthene	Soil – Fill Exposure Point
Chrysene	Soil – Fill and Petroleum Exposure Points
Fluoranthene	Soil – Fill and Petroleum Exposure Point
Fluorene	Soil – Petroleum Exposure Point
Indeno(1,2,3-cd)pyrene	Soil – Fill and Petroleum Exposure Points

Chemicals of Potential Concern	
Chemicals	**Affected Media**
2-Methylnaphthalene	Soil – Fill and Petroleum Exposure Points
Phenanthrene	Soil – Fill and Petroleum Exposure Points
Pyrene	Soil – Fill and Petroleum Exposure Points
Polychlorinated Biphenyls	Soil – Fill and Petroleum Exposure Points
C11-C22 Aromatics	Soil – Fill and Petroleum Exposure Points
C9-C12 Aliphatics	Soil – Petroleum Exposure Point
C9-C18 Aliphatics	Soil – Petroleum Exposure Point
C19-C36 Aliphatics	Soil – Petroleum Exposure Point
Total Petroleum Hydrocarbons	Soil – Fill Exposure Point
Antimony	Soil – Fill Exposure Point
Arsenic	Soil – Fill Exposure Point and Groundwater
Barium	Soil – Fill/Petroleum Exposure Points and Groundwater
Beryllium	Soil – Fill Exposure Point
Cadmium	Soil – Fill Exposure Point
Chromium	Soil – Fill Exposure Point
Lead	Soil – Fill and Petroleum Exposure Points
Mercury	Soil – Fill Exposure Point
Nickel	Soil – Fill Exposure Point
Selenium	Soil – Fill Exposure Point
Silver	Soil – Fill Exposure Point
Vanadium	Soil – Fill Exposure Point
Zinc	Soil – Fill/Petroleum Exposure Points and Groundwater

3.3 Site Activities and Uses (Current and Foreseeable Future)

3.3.1 Current Uses

The approximately 11-acre Site was the former location of the City of New Bedford's Keith Junior High School. The former school building has been demolished and the Site is currently the location of an athletic complex. Currently there are no buildings at the Site, although there are plans to construct a support building for showers, lockers, concessions, etc. Since there are no access obstacles present at the Site (i.e., fencing, structures, etc.) and impacts associated with intermittent historic fill material and petroleum-impacted soil are present less than 3 feet below ground surface, direct contact soil exposure pathways are considered complete under current use conditions. The Site is located in a residential area. Therefore, current human receptors include neighborhood children and adults accessing the property. Because no occupied buildings currently exist at the Site, the subsurface vapor intrusion pathway is considered incomplete under current Site conditions.

3.3.2 Foreseeable Future Uses

The City does not intend to change the use of this area in the future. However, for the purposes of this risk characterization, future development of the property is assumed to include single

family residential use. Should residential use be associated with a Condition of No Significant Risk, commercial and other uses of the property will likewise be associated with a Condition of No Significant Risk since residential use is considered to be the most conservative scenario and representative of unlimited use. Adult, youth and child residential receptors could potentially be exposed to OHM in soil within the top 15 feet of ground surface (following movement of these soils to the surface during redevelopment activities) through dermal contact or incidental ingestion. The inhalation of fugitive dusts is considered an incomplete exposure pathway because the Site is landscaped. The subsurface vapor intrusion pathway (i.e., soil gas to indoor air) is considered incomplete under future residential use of the property because volatile compounds have not been detected in soil or groundwater at the Site, except for trace detections in the distinct localized area of subsurface petroleum-impacted soils along Hathaway Boulevard. The conclusion that the vapor intrusion pathway is incomplete is based not only on the minimal concentrations of volatile compounds detected in soil near the transformer, but also on the limited areal extent of soil VOC impacts in the vicinity of the transformer and the location of the impacted area in close proximity to the roadway, limiting the likelihood of building construction in this area.

There are no private drinking water wells within 500 feet of the Site and the area is serviced by the municipal water supply system. The local aquifer does not qualify as a GW-1 category groundwater resource and is therefore unlikely to be developed as a potable supply. However, groundwater at the Site meets the definition of both the GW-2 and GW-3 groundwater categories. The groundwater data collected to date demonstrate that the site-related chemicals (metals, PCBs and PAHs) have not significantly impacted groundwater beneath the Site.

3.4 Imminent Hazards

An Imminent Hazard is not present at this Site. This determination is based on a review of criteria under 310 CMR 40.0321(1) and under 310 CMR 40.0321(2). The results of this review are set forth below.

3.4.1 Criteria for Releases Deemed to Pose an Imminent Hazard – 310 CMR 40.0321(1)

The release to the environment is not known to have resulted in the presence of OHM within buildings, structures, or underground utility conduits at a concentration equal to or greater than 10-percent of the Lower Explosive Limit (LEL), as set forth in 310 CMR 40.0321(1)(a). Volatile compounds were not detected in soil or groundwater at concentrations greater than Method 1 S-1 soil or GW-2 groundwater standards, respectively. Neither the City nor TRC have received reports or complaints of odors in ambient or indoor air potentially attributable to the release of OHM to the environment.

The chemicals detected at the Site either do not possess reactive or explosive characteristics consistent with 310 CMR 40.0321(1)(b), or the chemicals are not present at concentrations or in situations expected to threaten safety.

The OHM detected at the Site does not appear to be related to a release to a roadway that could endanger public safety as set forth in 310 CMR 40.0321(1)(c).

The release did not result in immediate or acute adverse impacts to freshwater or saltwater fish populations consistent with 310 CMR 40.0321(e); the Site is not near a fresh or salt water waterway.

3.4.2 Criteria for Release that Could Pose an Imminent Hazard – 310 CMR 40.0321(2)

There are no reports of Site impacted soils resulting in the measurement of OHM in a private drinking water supply well at a concentration equal to or greater than ten-times the GW-1 Reportable Concentration (RC), as set forth in 310 CMR 40.0321(2)(a); the GW-1 reporting category does not apply to this Site. In addition, no private drinking water supply wells are known to be present in the vicinity of the Site. The Site and surrounding area are supplied potable water by the municipality.

To demonstrate that an Imminent Hazard condition does not exist at the Site, Table D-3 in Appendix D summarizes the surficial (0 to 1 foot) soil data available for the fill exposure point. Table D-5 in Appendix D summarizes the surficial (0 to 3 foot) data available for the petroleum exposure point. The data summary demonstrates that surficial soil EPCs for both exposure points are less than Method 1 S-1 soil standards. Therefore, no Imminent Hazard condition for human health exists at the Site.

3.5 Appropriateness of the Use of Method 1

A Method 1 risk characterization approach, as described in 310 CMR 40.0980 was selected to characterize the risk of harm to health, public welfare and safety, and a Stage I environmental screening has been used to characterize risk to the environment. A Method 1 approach was applied to this Site for health, public welfare and safety for the following reasons:

- The OHMs detected at the Site are limited to groundwater and soil; and
- Method 1 soil and groundwater standards are available for all chemicals detected at the Site.

A Stage I environmental screening has been performed to assess risk to the environment because materials with the potential to bioaccumulate (e.g., PCBs and lead) are known to be present within 2 feet of the ground surface. However, there is limited potential for environmental receptors (other than typical urban fauna such as pigeons or rodents) to be present at the Site due to the highly urbanized character of the Site. The Stage I environmental screening is presented in Section 3.9.3.

3.6 Groundwater and Soil Categorization

The following sets forth the applicable groundwater and soil categories at the Site. This categorization was prepared consistent with 310 CMR 40.0932, 310 CMR 40.0933, and Table 40.0933(9) of the MCP.

3.6.1 Groundwater Categories

The groundwater categories for this Site were determined pursuant to 310 CMR 40.0932, research of available documentation, and through the use of MassDEP Site Scoring Map (see Figure 3). Based on the available information, groundwater categories GW-2 and GW-3 apply to groundwater beneath this Site for the following reasons:

GW-2. Groundwater beneath the Site is located less than 15 feet bgs, but no currently occupied buildings exist at the Site. Therefore, the GW-2 category is not considered relevant to current Site activities and uses. However, consistent with 310 CMR 40.0932(b) of the MCP, potential future development of the Site by the construction of a building was considered to meet the GW-2 criteria for this risk characterization because of the assumption of future unrestricted site use.

GW-3. All groundwater is thought to eventually discharge to surface water bodies per MassDEP's Method 1 groundwater criteria development guidance; therefore, groundwater category 3 (GW-3) is also relevant to the entire Site.

3.6.2 Soil Categories

Consistent with 310 CMR 40.0933(4), the applicability of the MCP soil categories was determined based on consideration of the frequency of Site use, intensity of activities and the accessibility of the soil, as well as human receptor characteristics.

Current adult and child frequency of use at the Site is determined to be "high" since the Site is developed for recreational use (i.e., sporting events), and adult and child receptors would be present frequently. Adult and child intensity of activity is determined to be "high" because the Site lacks barriers, and soil impacts are located at depths less than three feet below grade. Under a future unrestricted use scenario, child and adult frequency and intensity of soil contact is also assumed to be "high".

Potentially impacted soil at the Site is present within the 0 to 3 foot depth interval as well as the 3 to 15 foot depth interval (based on field observations and sampling). Potentially impacted soil within the top three feet is therefore considered *accessible*, consistent with 310 CMR 40.0933(4)(c)(2), and soil within the 3 to 15 foot interval is considered *potentially accessible*.

Based on the above-summarized information and Table 40.0933(9) of the MCP, soil category S-1 currently applies to accessible and potentially accessible soil.

3.7 Exposure Point Concentrations

EPCs for soil and groundwater were determined for the Site consistent with 310 CMR 40.0926 and supporting MassDEP guidance. In addition, the potential presence of hot spots was evaluated. However, no hot spots were identified at the Site.

An EPC is the measured or estimated amount of a chemical 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 that do not show evidence for the presence of hot spots. However, when soil or groundwater sample locations are not evenly distributed over the Site, or concentrations are highly variable over the Site, or where exposure frequencies are higher in some areas than others, the arithmetic mean may not represent the average exposure concentration. According to 310 CMR 40.0926(3), consideration of the observed distribution of the data, sampling strategy, graphical representation of analytical results, and/or statistical analyses with sufficient power and confidence may be used to demonstrate that the arithmetic mean concentration is unlikely to underestimate the average concentration of OHM at the exposure point.

Only those samples located within the areas of the property where fill-containing materials or petroleum-impacted soils were observed or where sampling indicated the presence of fill-related or petroleum-related impacts (metals, PAHs, and/or petroleum fractions) were used to calculate EPCs. This approach results in the calculation of conservative (health-protective) EPCs since current and future exposures are occurring or will occur across the entire property, and not just in those localized areas where fill is present. Therefore, due to the use of a worst-case data set, undiluted by areas of lower chemical concentrations on the property, arithmetic mean concentrations as EPCs are unlikely to underestimate the average concentrations of OHM at the Site.

For this Site, arithmetic average concentrations have been used as EPCs. EPCs were calculated for current use and future use scenarios. Table D-1 provided in Appendix D present the individual samples used to generate the EPCs for two exposure points at the Site.

3.7.1 Exposure Point Concentrations for Soil

Tables D-4 and D-5 in Appendix D present the soil EPCs (i.e., arithmetic mean) for the current scenario for the fill and petroleum exposure points, respectively. Tables D-6 and D-7 in Appendix D present the soil EPCs (i.e., arithmetic mean) for the future scenario for the two exposure points. The EPCs were used for comparison to the S-1/GW-2 and S-1/GW-3 MCP Method 1 standards.

3.7.2 Exposure Point Concentrations for Groundwater

Each well at the Site was treated as an individual exposure point. The groundwater EPCs are based on analytical data obtained from the round of groundwater sampling conducted at the Site

by TRC in January 2009. Locations of all groundwater monitoring wells are depicted on Figure 2.

Table D-2 in Appendix D summarizes analytical results representing each monitoring well exposure point location.

3.7.3 Hot Spots

No hot spots were identified at the Site.

3.8 Background Concentrations

See Section 3.2.2.2 for a discussion of background concentrations for this Site.

3.9 Identification of Method 1 Standards

As discussed in Section 3.5.1, groundwater category GW-3 applies under the current scenario. Groundwater category GW-2 will also apply to the Site in the future if occupied buildings are constructed at the property. As discussed in Section 3.5.2, soil categories S-1 and S-2 apply to Site soil under current conditions, where and when appropriate, and category S-1 applies to future Site soil. Consistent with these categorizations, tabulated soil and groundwater data from the Site have been compared to Method 1 Groundwater and Soil Standards obtained from tables in sections 310 CMR 40.0974 and 310 CMR 40.0975 of the MCP, respectively. Comparisons to S-1/GW-2 and S-1/GW-3 soil standards and GW-2/GW-3 groundwater standards are presented as these standards are the most conservative of the standards to evaluate unrestricted future land use.

3.10 Method 1 Risk Characterization

The EPCs calculated for the Site soil are summarized in Tables D-4 and D-5 in Appendix D for the current scenario for the fill and petroleum exposure points, respectively. Tables D-6 and D-7 in Appendix D summarize the EPCs for the two exposure points for the future scenario. Groundwater data are summarized in Table 2 in Appendix D. As shown in these tables, the comparison of Method 1 standards to soil EPCs indicates that a condition of No Significant Risk has been achieved for soil at the historic fill exposure point under current and future use scenarios, and for soil at the petroleum exposure point under the current use scenario. The comparison of groundwater analytical results to Method 1 GW-2 and GW-3 standards also indicates that a condition of No Significant Risk has been achieved for groundwater. However, a condition of No Significant Risk has not been achieved for soil at the petroleum exposure point under the future use scenario. Exceedances of Method 1 S-1 soil standards for soils greater than 3 feet below ground surface for C19-C36 aliphatic and C11-C22 aromatic petroleum fractions, benzo(a)pyrene and lead at the petroleum exposure point will require an AUL to prevent future direct contact exposures.

3.11 Risk of Harm to Safety, Public Welfare, and the Environment

The following sections present a characterization of risk to safety, public welfare, and an environmental risk characterization.

3.11.1 Characterization of Risk to Safety

The risk of harm to safety, as described in 310 CMR 40.0960, was evaluated for the disposal Site. The Site location does not contain the following items related to a release of OHM:

- There are no rusted or corroded drums or containers, open pits or lagoons, at the Site;
- There is no threat of fire or explosion, or the presence of explosive vapors from the release of OHM; and
- There are no uncontainerized materials exhibiting the characteristics of corrosivity, reactivity, or flammability.

Based on the above information, it was determined that the Site does not pose a risk to safety due to the presence of dangerous structures related to the release of OHM.

3.11.2 Risk to Public Welfare

A comparison of soil EPCs to MCP Upper Concentrations Limits (UCLs) is presented in Tables D-4 through D-7 in Appendix D. No soil EPC exceeds its respective MCP UCL. Individual concentrations of OHM in groundwater at the Site as measured in 2009 did not exceed MCP UCLs (Table D-2, Appendix D).

No community in the vicinity of the Site is believed to be currently experiencing, or expected to experience, significant adverse impacts as a result of the degradation of public or private resources directly attributable to the soil and groundwater contamination at the Site. No other non-pecuniary effects are known to be present, or to be accruing. Based on this analysis, a condition of No Significant Risk to public welfare exists at the Site.

3.11.3 Environmental Risk Characterization

This environmental risk characterization briefly describes the terrestrial habitat present at the Site and evaluates the quality of the habitat associated with the Site. This risk assessment represents a Stage I Environmental Risk Characterization (ERC) under the MCP and was conducted in accordance with the *Guidance for Disposal Site Risk Characterization, Method 3 - Environmental Risk Characterization.* Massachusetts Department of Environmental Protection (MADEP). Interim Final Policy WSC/ORS-95-141, April 1996. The objectives of this Stage I screening ERC are to determine whether significant environmental exposure exists at the Site and whether additional investigation to assess environmental risks is warranted.

The Site was a former junior high school campus that now consists of an athletic complex located within an urbanized setting that provides limited terrestrial habitat for ecological receptors. Currently, limited vegetation is present in scattered patches throughout the parcel. These vegetated areas represent habitats that provide limited value for ecological receptors. No aquatic or wetland habitats are present on the Site or in the vicinity of the Site. Based on a review of priority habitats (Natural Heritage Atlas, 13th Edition, MassGIS, 2008), no state-listed threatened, endangered or species of special concern are present at the Site or in the vicinity. In addition, Areas of Critical Environmental Concern (ACEC) are not located in the vicinity of the Site.

Groundwater data is summarized in Table D-2 in Appendix D. As shown in this table, the groundwater analysis indicates a Condition of No Significant Risk to the environment for groundwater exposure pathways.

Therefore, in accordance with the ERC guidance, no significant soil exposure pathways exist at the Site and groundwater data indicate a Condition of No Significant Risk to environmental receptors.

3.12 Conclusions

No imminent hazard condition exists at the Site. In addition, soil EPCs do not exceed MCP Method 1 S-1/GW-2 and S-1/GW-3 standards for current and future Site conditions at the historic fill exposure point, or for current conditions at the petroleum exposure point. However, a condition of No Significant Risk has not been achieved for soil at the petroleum exposure point under the future residential use scenario. Exceedances of Method 1 S-1 standards for soils greater than 3 feet below ground surface for C19-C36 aliphatic and C11-C22 aromatic petroleum fractions, benzo(a)pyrene and lead at the petroleum exposure point will require an AUL to prevent future direct contact exposures.

Groundwater EPCs do not exceed the Method 1 GW-2 and GW-3 groundwater standards. As a result, a Condition of No Significant Risk exists for groundwater at the Site under current and future use scenarios.

With regard to public welfare, individual concentrations of OHM in soil and groundwater at the Site do not exceed MCP UCLs. Based on this information a Condition of No Significant Risk to public welfare exists at the Site.

No community in the vicinity of the Site is believed to be currently experiencing, or expected to experience, significant adverse impacts. Based on this information a Condition of No Significant Risk to public welfare exists at the Site.

A Stage I Environmental Risk Characterization indicated no significant soil exposure pathways exist at the Site and groundwater data indicate a Condition of No Significant Risk to environmental receptors.

4.0 FEASIBILITY OF ACHIEVING BACKGROUND LEVELS

The MCP requires that at Sites where cleanup to a level of No Significant Risk has been performed, an evaluation of the feasibility to achieve or approach background conditions be performed. Per the MCP, background is defined as those levels of oil and hazardous material that would exist in the absence of the disposal site of concern which are either: a) ubiquitous and consistently present in the environment at and in the vicinity of the disposal site of concern; and attributable to geologic or ecological conditions, or atmospheric deposition of industrial process or engine emissions; b) attributable to coal ash or wood ash associated with fill material; c) releases to groundwater from a public water supply system; or d) petroleum residues that are incidental to the normal operation of motor vehicles. The following discussion is framed in comparison to MassDEP's background concentrations in soil containing coal ash or wood ash (hereinafter "Ash Background") as published in the May 2002, Technical Update (MassDEP 2002a). and discussed the feasibility of achieving background in the context of a Site located within a larger district of historic urban fill. TRC also considered the July 16, 2004 MassDEP document, "*Conducting Feasibility Evaluations Under the MCP.* " (MassDEP, 2004)

To evaluate the feasibility of achieving background in the disposal site soils, TRC considered the distribution of metals, and PAH concentrations in the Site soils. Guidelines for the "natural" soil background concentrations for metals and PAHs were published in the May 2002 Technical Update (MassDEP, 2002b). A comparison of Site soils to ash background is provided in Section 2.6 and in Table 4.

TRC's soil sampling results described herein, document the absence of a source of impacts and the successful achievement of No Significant Risk for the historical fill exposure point. The post-soil removal analytical results (Table 1 and Table 3) indicate that the soil EPCs are below Method 1 S-1 soil standards, except for soils greater than 3 feet below ground surface in the vicinity of the newly installed transformer for petroleum constituents.

The maximum concentration of certain chemicals (certain PAHs and metals) are above the MassDEP Background Concentrations in soil containing coal ash or wood ash (hereinafter "Ash Background") published in the May 2002, Technical Update (MassDEP 2002). However, a comparison of Site data for remaining soils with that utilized by MassDEP for the development of the Ash Background in the Technical Update, supports a conclusion that the remaining soils at the Site are comparable to that of Ash Background. A comparison of the 90th percentile value of Site soil concentrations to Ash Background concentrations (which were based on the 90th percentile value of ash containing soil concentrations in the database utilized by MassDEP for the preparation of the Technical Update) indicates that Site soil concentrations approach or are below Ash Background concentrations for PAHs and metals at the Site, with few exceptions. A comparison of the maximum concentration of PAHs and metals detected at the Site with the maximum concentrations utilized for the Ash Background determination, indicate that Site soil maximum concentrations approach or are below Ash Background, for all of the PAHs and most of the detected metals. Therefore, any additional remedial activity is not warranted and would be substantial and disproportionate to the net gain in risk reduction, especially in a situation where

No Significant Risk has been achieved. A Class A-3 RAO is applicable for closeout of KJHS (RTN 4-15685).

Regardless of the consistency of the site with an emerging consensus definition of historic urban fill, the history of the site, and with the database from which the MassDEP coal ash background guidelines were developed, all response actions performed to date have been performed in compliance with MCP, all appropriate notifications have been made to MassDEP, all Imminent Hazards have been eliminated, and all response action have been necessary and appropriate to ensure the protection of human health. No additional remedial activity is warranted and would be substantial and disproportionate to the net gain in risk reduction and background achievement, especially in a situation where No Significant Risk has been achieved for the top 3 feet across the Site. Exposure to deeper soils including in the vicinity of the newly installed transformer is controlled by an AUL.

5.0 DATA USABILITY AND REPRESENTATIVENESS

5.1 Data Usability Assessment

5.1.1 Analytical Data Usability Assessment

Refer to Appendix G for a summary of the data usability assessment associated with VHB's, BETA's, and TRC's investigation of the Site. In general, the analytical data are usable for MCP decisions and a Representativeness Evaluation based on the Compendium of Analytical Methods (CAM) requirements for acceptable accuracy, precision, and sensitivity. In general, the data are valid as reported and may be used for decision-making purposes with certain cautions and/or limitations as identified in Appendix G.

Soil sample analysis performed by VHB and BETA in the year 2000 were done using pre-CAM methods. A limited evaluation was performed to assess the comparability of the pre-CAM analysis with CAM requirements, given that a limited amount of quality control information was available when reviewing the data. Although only a limited evaluation could be performed on the pre-CAM data, the data were sufficient to support Site closure decision making.

5.1.2 Field Quality Control Data Usability Assessment

Quality control in the field was assessed in the Data Usability Assessments provided in Appendix G. In general, the results of these QC samples were within the established acceptance criteria. Holding times were achieved for all analyses performed. Sampling procedures and sample preservation techniques were conducted in accordance with TRC SOPs.

In general, the data are usable for MCP decisions and a Representativeness Evaluation due to acceptable accuracy, precision, and sensitivity on the basis of the field quality control component of the program.

5.1.3 Achievement of Data Quality Objectives

Data Quality Objectives for the Site program were as follows:

- To assess the nature and extent of oil and hazardous material in soil at the Site.
- To evaluate the potential risks posed by the Site impacts to human health, safety, public welfare and the environment.
- To evaluate the success of the Site remediation activities in achieving a condition of No Significant Risk as defined by the MCP.

The data usability assessment evaluated whether the data were usable to achieve project objectives. In addition, any cautions or limitations on the data which could affect the achievement of these objectives or the decision-making process were also highlighted.

5.2 Representativeness Evaluation

TRC prepared this Representativeness Evaluation to describe the extent to which Site data provide an accurate representation of Site environmental characteristics pursuant to 310 CMR 40.1056(2)(k) of the MCP and the Draft Final Representativeness and Data Usability Guidance document issued by MassDEP in March 2007 (Policy #WSC-07-350). The precision, accuracy and sensitivity of the site data used in this Representativeness Evaluation were discussed in the Data Usability Assessment section (Section 5.1) of this RAO. As stated in the Data Usability Assessment, the data are valid as reported and may be used for decision-making.

5.2.1 Conceptual Site Model

The subject Site is underlain by historic ash fill. A distinct localized area of petroleum-impacted soil was discovered during the installation of a transformer pad/vault in the northwest portion of the Site, along Hathaway Boulevard. Soil EPCs exceeded MCP Method 1 S-1/GW-2 and/or S-1/GW-3 standards at the petroleum exposure point under future unlimited use conditions.

Site investigations completed by TRC and others detected PAHs and metals. The horizontal and vertical extent of oil and hazardous materials detected in Site soils are summarized in Section 2.3.

The results of groundwater analysis did not indicate the presence of impacts to groundwater at the Site.

Based on the Site investigation data, TRC determined that the EPCs for chemicals of potential concern were below MCP Method 1 S-1/GW-2 and/or S-1/GW-3 standards for the historic fill exposure point. A review of the boring logs for the Site indicates the presence of fill containing ash beneath the eastern and northern most portions of the Site.

Based on the post-soil removal sampling data, a Class A-3 RAO has been achieved for the Site.

5.2.2 Work Plan, Data Quality Objectives and Data Collection Approach

5.2.2.1 Site Testing

TRC was retained by the City to assist them with further evaluation of surface soil lead detections identified by VHB. The objective of TRC's scope of work was to address data gaps in prior work using current MassDEP petroleum hydrocarbon methods and total lead analysis and to evaluate if residual impacted soil was present and may warrant remedial action.

Summaries of TRC's investigation activities and remediation activities are found in Section 1.1.3 and 2.2.2 respectively.

The Data Quality Objectives (DQOs) for TRC's Site testing programs were to collect data that could be used to assess the nature and extent of oil and hazardous materials present in soil;

evaluate the potential risks posed by impacted soils and groundwater to human health, safety, public welfare and the environment; and support Site closure, if appropriate. The results of TRC's sampling are summarized in Tables 1 through 3.

5.2.3 Use of Field/Screening Data

During the field investigations, TRC conducted field screening. Field screening for soil samples included use of a PID and the MassDEP Jar Headspace Analytical Screening Procedure to evaluate VOCs at various depths at each soil boring location. PID readings were recorded on the soil boring logs, which have been previously submitted in the RAM Plan, and subsequent RAM Status Reports. No significant PID readings above background were encountered during any of the field investigations. This is consistent with the results for the EPH samples collected by TRC.

Field screening also included visual observations for the presence of anthropogenic fill materials including ash, etc. TRC soil boring logs document the presence of historic fill containing ash.

5.2.4 Selection of Sampling Locations and Depths

Summaries of the sampling locations, depths, chemical analyses and rationale for the investigative samples collected at the Site are provided in Section 2.0 (Response Action Outcome Supporting Documentation). A summary of TRC's soil boring chemical analyses results are provided in Tables 1 and 3.

5.2.5 Number and Spatial Distribution of Sampling Locations

The soil samples were initially collected to fill data gaps concerning lead detected in soil to the south of the UST. The locations identified for soil sampling targeted areas in the vicinity of the former UST. Additional investigations included the delineation of the fill line at the Site. Subsequent to delineation of the fill line at the Site, areas that were targeted for excavation were further delineated. A complete discussion of Site investigations is included in Sections 1.1.2 and 1.1.3. Based on this information, the number and spatial distribution of sampling at the Site is sufficiently representative of Site conditions.

5.2.6 Temporal Distribution of Samples

The release conditions at this Site do not warrant monitoring over time. No Time Critical Conditions were identified at the Site. Groundwater is not a concern at this Site. No Non-Aqueous Phase Liquid (NAPL) was observed in soil borings or noted in wells installed by others. No post-excavation data points exceeded the upper concentration limit (UCL). No soil EPC within the top three feet of ground surface exceeds a Method 1 S-1 Soil Standard within 500 feet of a school or residence.

5.2.7 Critical Samples

Critical soil samples are identified as those samples used in the calculation of exposure point concentrations for the Method 1 risk characterization presented in Section 3.0, which includes all soil boring samples collected by TRC. The sample results for these critical samples are provided in Tables 1 and 3.

5.2.8 Completeness

No Site data used to calculate EPCs was rejected as a result of the Data Usability Assessment presented in Section 5.1 of this RAO. Therefore, 100% completeness was achieved for all Site data.

5.2.9 Uncertainty and Inconsistency

None.

5.2.10 Conclusion from Representativeness Evaluation

TRC has developed the following conclusions with respect to the representativeness of the site data to actual site conditions:

- As indicated by the Data Usability Assessment presented in Section 5 of this RAO, the Site data used in this RAO to demonstrate that a condition of No Significant Risk has been achieved are consistent and/or comparable to current MassDEP CAM requirements.

- The number of samples, sample depths, spatial and temporal distribution of the samples is sufficient to identify releases from the suspected source areas and to delineate the extent of oil and/or hazardous materials impacts at the Site.

- No significant discrepancies between Site history information, field screening results, and/or laboratory sample results were identified that would undermine the conclusions of this RAO.

Based on the above conclusions, TRC has determined that the Site data are sufficiently representative of actual site conditions and may be used to support this RAO.

6.0 RESPONSE ACTION OUTCOME

A Class A-3 Response Action Outcome has been achieved at the Site, based on, and in accordance with, the following (310 CMR 40.1035 & 40.1036 (3)):

- Response actions have been conducted to achieve a level of no significant risk:
- The source of OHM at the Site has been eliminated or controlled;
- A Permanent Solution has been achieved;
- The level of OHM in the environment has not been reduced to background;
- An AUL has been implemented to maintain a level of no significant risk; and
- OHM at the Site do not exceed an UCL in soil and groundwater.

Note that another RAO has been filed for the Site and no other response actions are necessary at the Site.

7.0 PUBLIC INVOLVEMENT

The public involvement and/or notification activities to which the City of New Bedford is obligated with regard to this Site under 310 CMR 40.1403(3)(f) include notification regarding the availability of the RAO Statement filed for this Site, which must be submitted to the Chief Municipal Officer and Board of Health in the City of New Bedford. This notification must be made in writing, and will be made concurrently with the filing of the RAO Statement with the MassDEP Southeast Regional Office.

Copies of the public notification letters are provided in Appendix F.

8.0 REFERENCES

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TABLES

TABLE 1
Summary of Analytical Detected Results for Fill Area Soil Samples
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	B-4		B-6	B-7		M-2	Keith S-1	Keith S-2	Keith S-5	Keith S-6	Keith S-7	Keith S-8	Keith S-9		Keith S-10	Keith S-11	Keith S-12	SS-1	SS-2	SS-3	SS-4	SS-5
						Sample Depth (ft.):	4-6	9-11	4-6	0-2	2-4	4-6	1.5-4.75	0.5-1.25	1.5-2	0-0.5	0-0.5	0-0.5	0-0.5	1.5-1.75	0-0.5	0-0.5	0-0.5					
						Sample Date:	10/11/2000	10/11/2000	10/12/2000	10/12/2000	10/12/2000	10/11/2000	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1																						
VPH																												
(mg/kg)	C9-C10 Aromatics	100	100	500	500	100	NA	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																												
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	NA	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.3 U	29.1 U	30.5 U	28.4 U	30.5 U
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	NA	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.3 U	29.1 U	30.5 U	28.4 U	30.5 U
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	NA	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.3 U	29.1 U	30.5 U	28.4 U	30.5 U
SVOCs/PAHs																												
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA	0.12 U	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	**0.14**	0.057 U	0.061 U	0.056 U	**0.97**	0.058 U	**0.086**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Acenaphthylene	600	10	600	10	1	NA	0.12 U	NA	NA	NA	NA	0.056 U	**0.30**	0.058 U	**0.090**	0.057 U	0.061 U	0.056 U	**1.1**	0.058 U	**0.093**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	NA	0.12 U	NA	NA	NA	NA	0.056 U	**0.40**	0.058 U	**0.37**	0.057 U	**0.061**	0.056 U	**4.2**	0.058 U	**0.23**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Benzo(a)anthracene	7	7	40	40	7	NA	0.12 U	NA	NA	NA	NA	**0.091**	**1.2**	0.058 U	**0.94**	**0.080**	**0.15**	**0.12**	**5.6**	**0.14**	**0.76**	**1.5**	**0.552**	0.388 U	0.407 U	**0.983**	0.407 U
	Benzo(a)pyrene	2	2	4	4	2	NA	0.12 U	NA	NA	NA	NA	**0.081**	**1.3**	0.058 U	**0.85**	**0.083**	**0.14**	**0.12**	**3.6**	**0.16**	**0.78**	**1.8**	**0.532**	0.388 U	0.407 U	**0.932**	0.407 U
	Benzo(b)fluoranthene	7	7	40	40	7	NA	0.12 U	NA	NA	NA	NA	**0.14**	**1.7**	0.058 U	**1.2**	**0.12**	**0.18**	**0.18**	**4.2**	**0.23**	**1.3**	**2.5**	**0.717**	0.388 U	0.407 U	**1.16**	0.407 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	NA	0.12 U	NA	NA	NA	NA	0.056 U	**0.39**	0.058 U	**0.31**	0.057 U	**0.075**	**0.058**	**1.3**	**0.080**	**0.25**	0.98 U	0.417 U	0.388 U	0.407 U	**0.43**	0.407 U
	Benzo(k)fluoranthene	70	70	400	400	70	NA	0.12 U	NA	NA	NA	NA	0.056 U	**0.53**	0.058 U	**0.46**	0.057 U	**0.063**	0.056 U	**1.4**	**0.068**	**0.37**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Chrysene	70	70	400	400	70	NA	0.12 U	NA	NA	NA	NA	**0.094**	**1.1**	0.058 U	**0.85**	**0.083**	**0.13**	**0.13**	**5.0**	**0.14**	**0.68**	**1.3**	**0.576**	0.388 U	0.407 U	**0.996**	0.407 U
	Dibenzofuran	NS	NS	NS	NS	100	NA	NA	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	**0.072**	0.057 U	0.061 U	0.056 U	**0.51**	0.058 U	0.059 U	0.98 U	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	0.7	NA	0.12 U	NA	NA	NA	NA	0.056 U	**0.17**	0.058 U	**0.12**	0.057 U	0.061 U	0.056 U	**0.65**	0.058 U	**0.10**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	NA	0.12 U	NA	NA	NA	NA	**0.20**	**1.8**	0.058 U	**2.0**	**0.17**	**0.34**	**0.26**	**10**	**0.35**	**1.6**	**2.4**	**1.29**	0.388 U	**0.582**	**2.03**	0.407 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	NA	0.12 U	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	**0.19**	0.057 U	0.061 U	0.056 U	**2.0**	0.058 U	**0.088**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	NA	0.12 U	NA	NA	NA	NA	0.056 U	**0.48**	0.058 U	**0.37**	0.057 U	**0.082**	**0.067**	**1.6**	**0.087**	**0.30**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	2-Methylnaphthalene	80	300	80	500	0.7	NA	0.12 U	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	0.059 U	0.057 U	0.061 U	0.056 U	**0.39**	0.058 U	0.059 U	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Naphthalene	40	500	40	1,000	4	NA	0.12 U	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	0.059 U	0.057 U	0.061 U	0.056 U	**0.36**	0.058 U	0.059 U	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U
	Phenanthrene	500	500	1,000	1,000	10	NA	0.12 U	NA	NA	NA	NA	**0.16**	**0.72**	0.058 U	**1.7**	**0.089**	**0.24**	**0.14**	**16**	**0.19**	**1.0**	**1.3**	**1.04**	0.388 U	0.407 U	**1.43**	0.407 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	NA	0.12 U	NA	NA	NA	NA	**0.18**	**1.9**	0.058 U	**1.8**	**0.16**	**0.28**	**0.27**	**10**	**0.29**	**1.6**	**3.8**	**1.02**	0.388 U	**0.551**	**1.83**	0.407 U
PCBs																												
(mg/kg)	Aroclor 1242	2	2	3	3	2	NA	0.016 U	0.037 U	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0417 U	0.0386 U	0.0407 U	0.0378 U	0.0407 U
	Aroclor 1254	2	2	3	3	2	NA	0.016 U	0.037 U	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.90**	0.1 U	0.0417 U	0.0386 U	0.0407 U	**0.352**	0.0407 U
	Aroclor 1260	2	2	3	3	2	NA	0.016 U	0.037 U	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.0593**	0.0386 U	**0.0661**	0.0378 U	**0.0541**
	Total PCBs	2	2	3	3	2	NA	0.016 U	0.037 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.90**	0.2 U	**0.0593**	0.0386 U	**0.0661**	**0.352**	**0.0541**
Total Petroleum Hydrocarbons																												
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																												
(mg/kg)	Antimony	20	20	30	30	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	0.51 U	NA	1.2 U	NA	0.51 U	0.48 U	**8.45**	**4.3**	**21**	**1.82**	**3.59**	**2.24**	**1.68**	**2.38**	**1.17**	**3.06**	0.68 U	**4.35**	3.82 U	**4.0**	3.71 U	ND
	Barium	1,000	1,000	3,000	3,000	1,000	**7.5**	NA	**14**	NA	**7.7**	**12**	**358**	**262**	**112**	**70**	**20**	**31**	**38**	**90**	**33**	**156**	**55**	**49.1**	**18.9**	**43**	**78**	**29.3**
	Beryllium	100	100	200	200	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	0.10 U	NA	0.25 U	NA	0.10 U	0.097 U	**9.13**	**1.56**	**1.84**	**0.99**	**0.55**	**0.48**	**0.53**	**0.71**	**0.55**	**0.92**	**0.48**	**0.725**	0.382 U	**0.536**	**0.535**	**0.425**
	Chromium	30	30	200	200	30	**2.6**	NA	**4.6**	NA	**3.5**	**3.3**	**17**	**18**	**15**	**12**	**9.37**	**9.13**	**8.7**	**8.57**	**10**	**16**	**30**	**9.31**	**10**	**13.2**	**7.75**	**7.83**
	Lead	300	300	300	300	300	**1.9**	NA	**1.9**	NA	**11**	**23**	**384**	**437**	**109**	**117**	**81**	**72**	**283**	**231**	**65**	**180**	**32**	**151**	**32.3**	**80.9**	**590**	**73.2**
	Nickel	20	20	700	700	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	**1.6**	NA	**1.9**	NA	**2.5**	**1.8**	**2.92**	0.74 U	**1.23**	**1.36**	**1.25**	**0.80**	**1.37**	**0.87**	0.78 U	**1.38**	**1.03**	8.3 U	7.6 U	7.8 U	7.4 U	ND
	Silver	100	100	200	200	100	0.10 U	NA	0.25 U	NA	0.10 U	0.097 U	0.37 U	0.37 U	**0.38**	0.38 U	0.39 U	0.40 U	0.38 U	0.40 U	0.39 U	0.38	0.34 U	0.417 U	0.382 U	0.388 U	0.371 U	ND
	Vanadium	600	600	1,000	1,000	600	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	0.023 U	NA	0.055 U	NA	**0.037**	**0.086**	**0.109**	**0.278**	0.076 U	**0.124**	**0.084**	**0.105**	**0.134**	**0.149**	**0.099**	**0.195**	0.058 U	**0.127**	0.0775 U	**0.0976**	**0.112**	**0.11**
Metals,TCLP																												
(mg/L)	Barium	NS	NS	NS	NS	100.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NS	NS	1.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NS	NS	5.0**	NA	NA	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1:
Maximum Concentration of Contaminants for Toxicity Characteristic.

TABLE 1
Summary of Analytical Detected Results for Fill Area Soil Samples
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	SS-6	TP-1	TP-3	TP-4	TP-6	TP-8	TP-11	LEAD-1	LEAD-2	LEAD-3	LEAD-4	LEAD-5	UST-1S		UST-2N		UST-3E		UST-4E	
						Sample Depth (ft.):		7-8	8-10	10	8-9	9	9	1-3	2-3	1-3	1-2.5	0.5-2	5-7	11-12	5-7	11-12	11-12	11-12	5-7	11-12
						Sample Date:	8/30/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008 Field Dup	11/14/2008	11/14/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1																				
VPH																										
(mg/kg)	C9-C10 Aromatics	100	100	500	500	100	NA	3.0 U	NA	2.9 U	3.0 U	2.7 U	**35**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																										
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	31.3 U	12 U	NA	12 U	12 U	11 U	**260**	NA	NA	NA	NA	NA	33.3 U	34.1 U	36.4 U	67.5 U	32.9 U	66.5 U	192 U	35.9 U
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	31.3 U	12 U	NA	12 U	12 U	11 U	**140**	NA	NA	NA	NA	NA	33.3 U	34.1 U	36.4 U	67.5 U	32.9 U	66.5 U	192 U	35.9 U
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	31.3 U	**20**	NA	12 U	12 U	11 U	**440**	NA	NA	NA	NA	NA	33.3 U	34.1 U	36.4 U	67.5 U	32.9 U	66.5 U	192 U	35.9 U
SVOCs/PAHs																										
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	**0.31**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Acenaphthylene	600	10	600	10	1	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	**0.20**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Benzo(a)anthracene	7	7	40	40	7	**0.645**	**0.25**	NA	0.12 U	0.12 U	0.11 U	**0.20**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Benzo(a)pyrene	2	2	4	4	2	**0.595**	**0.21**	NA	0.12 U	0.12 U	0.11 U	**0.16**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Benzo(b)fluoranthene	7	7	40	40	7	**0.797**	**0.28**	NA	0.12 U	0.12 U	0.11 U	**0.22**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Benzo(k)fluoranthene	70	70	400	400	70	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Chrysene	70	70	400	400	70	**0.617**	**0.25**	NA	0.12 U	0.12 U	0.11 U	**0.24**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Dibenzofuran	NS	NS	NS	NS	100	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	0.7	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	**1.53**	**0.65**	NA	0.12 U	0.12 U	0.11 U	**0.42**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	**0.53**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	2-Methylnaphthalene	80	300	80	500	0.7	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	**0.41**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Naphthalene	40	500	40	1,000	4	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U	**0.43**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Phenanthrene	500	500	1,000	1,000	10	**1.05**	**0.49**	NA	0.12 U	0.12 U	0.11 U	**1.3**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	**1.23**	**0.56**	NA	0.12 U	0.12 U	0.11 U	**0.58**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.20 U	0.30 U	0.70 U	0.20 U
PCBs																										
(mg/kg)	Aroclor 1242	2	2	3	3	2	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U	**1.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	2	2	3	3	2	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U	0.015 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	**0.0674**	0.016 U	NA	NA	**0.020**	0.014 U	**0.045**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	**0.0674**	0.016 U	NA	NA	**0.020**	0.014 U	**1.045**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																										
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																										
(mg/kg)	Antimony	20	20	30	30	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	3.79 U	0.55 U	0.51 U	NA	NA	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	**51.3**	**28**	**7.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	**0.417**	**0.40**	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	**9.42**	**6.1**	**2.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	**77.6**	**61**	**2.5**	NA	NA	NA	NA	**28.6**	**28.3**	**41.2**	**101**	**443**	NA	NA	**21.9**	NA	**8.98**	**22.1**	NA	NA
	Nickel	20	20	700	700	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	7.6 U	**2.2**	**1.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	0.379 U	0.11 U	0.10 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	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	**0.0967**	**0.086**	0.023 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals,TCLP																										
(mg/L)	Barium	NS	NS	NS	NS	100.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NS	NS	1.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NS	NS	5.0**	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1:
Maximum Concentration of Contaminants for Toxicity Characteristic.

TABLE 1
Summary of Analytical Detected Results for Fill Area Soil Samples
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	UST-4W			UST-5C		TRC-01	TRC-10				TRC-17	TRC-23			TRC-24			TRC-25		
						Sample Depth (ft.):	1-3	5-7	11-12	5-7	11-12	8	1	4	9	12	7	1	8	12	1	7	12	1	5	8
						Sample Date:	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/21/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1																				
VPH																										
(mg/kg)	C9-C10 Aromatics	100	100	500	500	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																										
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	35.4 U	33.6 U	33.6 U	36.0 U	34.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	35.4 U	33.6 U	33.6 U	36.0 U	34.7 U	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	35.4 U	33.6 U	33.6 U	36.0 U	34.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs/PAHs																										
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Acenaphthylene	600	10	600	10	1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Benzo(a)anthracene	7	7	40	40	7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	**0.204**	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Benzo(a)pyrene	2	2	4	4	2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Benzo(b)fluoranthene	7	7	40	40	7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	**0.204**	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Benzo(k)fluoranthene	70	70	400	400	70	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Chrysene	70	70	400	400	70	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	**0.206**	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Dibenzofuran	NS	NS	NS	NS	100	NA	NA	NA	NA	NA	NA	NA	0.45 U	NA	NA	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	0.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	**0.375**	0.173 U	0.183 U	**0.421**	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	2-Methylnaphthalene	80	300	80	500	0.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Naphthalene	40	500	40	1,000	4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Phenanthrene	500	500	1,000	1,000	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	**0.299**	0.173 U	0.183 U	**0.226**	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.341 U	0.183 U	0.225 U	0.392 U	NA	0.184 U	**0.293**	0.173 U	0.183 U	**0.290**	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U
PCBs																										
(mg/kg)	Aroclor 1242	2	2	3	3	2	NA	NA	NA	NA	NA	0.163 U	0.0546 U	0.0722 U	0.217 U	NA	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U
	Aroclor 1254	2	2	3	3	2	NA	NA	NA	NA	NA	0.163 U	0.0546 U	0.0722 U	0.217 U	NA	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U
	Aroclor 1260	2	2	3	3	2	NA	NA	NA	NA	NA	0.163 U	0.0546 U	0.0722 U	0.217 U	NA	0.0549 U	0.0547 U	0.0500 U	0.0565 U	**0.0892** *	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U
	Total PCBs	2	2	3	3	2	NA	NA	NA	NA	NA	0.163 U	0.0546 U	0.0722 U	0.217 U	NA	0.0549 U	0.0547 U	0.0500 U	0.0565 U	**0.0892**	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U
Total Petroleum Hydrocarbons																										
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	**30**	NA	NA	NA	NA	8.7 U	NA	NA	9.0 U	NA	NA	NA	NA
Metals, total																										
(mg/kg)	Antimony	20	20	30	30	20	NA	NA	NA	NA	NA	8.18 U	4.39 U	5.40 U	9.39 U	4.78 U	4.41 U	4.51 U	4.14 U	4.39 U	4.91 U	4.31 U	4.32 U	4.41 U	6.43 U	4.28 U
	Arsenic	20	20	20	20	20	NA	NA	NA	NA	NA	5.12 U	**2.77**	**24.8**	**6.03**	2.99 U	2.76 U	**2.85**	2.59 U	2.75 U	**4.05**	2.69 U	2.70 U	**2.93**	**8.29**	2.68 U
	Barium	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	**28.1**	**22.9**	**485**	**77.3**	**18.4**	**15.1**	**25.1**	**23.2**	**10.3**	**46.8**	**10.8**	**10.6**	**126**	**35.9**	**21.8**
	Beryllium	100	100	200	200	100	NA	NA	NA	NA	NA	0.52 U	0.28 U	0.34 U	0.59 U	**0.37**	0.28 U	0.29 U	0.26 U	0.28 U	0.31 U	0.27 U	0.27 U	0.28 U	0.41 U	0.27 U
	Cadmium	2	2	30	30	2	NA	NA	NA	NA	NA	0.52 U	0.28 U	**7.44**	**3.27**	0.30 U	0.28 U	0.29 U	0.26 U	0.28 U	**0.58**	0.27 U	0.27 U	**0.28**	0.41 U	0.27 U
	Chromium	30	30	200	200	30	NA	NA	NA	NA	NA	**13.4**	**8.47**	**40.1**	**25.5**	**11.0**	**6.54**	**12.1**	**11.7**	**3.54**	**11.9**	**4.90**	**2.16**	**116**	**27.0**	**18.4**
	Lead	300	300	300	300	300	**39.5**	NA	**2.25**	NA	NA	**6.16**	**3.33**	**1,310**	**405**	**1.92**	**3.55**	**5.59**	**1.04**	0.83 U	**89.8**	**1.28**	0.81 U	**15.3**	**18.4**	0.81 U
	Nickel	20	20	700	700	20	NA	NA	NA	NA	NA	**9.50**	**4.79**	**21.4**	**10.8**	**5.31**	**3.58**	**6.72**	**5.29**	**2.33**	**6.52**	**2.76**	**1.60**	**49.0**	**8.67**	**8.44**
	Selenium	400	400	800	800	400	NA	NA	NA	NA	NA	R	R	R	R	5.97 U	5.51 U	5.64 U	5.18 U	5.49 U	6.13 U	5.38 U	5.40 U	5.51 U	8.03 U	5.35 U
	Silver	100	100	200	200	100	NA	NA	NA	NA	NA	1.03 U	0.55 U	0.68 U	1.18 U	0.60 U	0.56 U	0.57 U	0.52 U	0.55 U	0.62 U	0.54 U	0.54 U	0.56 U	0.81 U	0.54 U
	Vanadium	600	600	1,000	1,000	600	NA	NA	NA	NA	NA	**14.2**	**13.1**	**37.7**	**16.1**	**12.3**	5.51 U	**14.5**	**9.52**	5.49 U	**15.3**	**6.07**	5.40 U	**46.4**	**24.3**	**17.8**
	Zinc	2,500	2,500	3,000	3,000	2,500	NA	NA	NA	NA	NA	**45.4**	**15.9**	**617**	**211**	**15.4**	**30.8**	**19.6**	**15.3**	**8.32**	**78.6**	**10.6**	**8.87**	**47.4**	**30.9**	**26.4**
	Mercury	20	20	30	30	20	NA	NA	NA	NA	NA	0.047 U	0.013 U	**6.99**	0.052 U	0.015 U	0.012 U	**0.023**	0.017 U	0.012 U	**0.072**	0.018 U	0.012 U	0.012 U	**0.066**	0.019 U
Metals,TCLP																										
(mg/L)	Barium	NS	NS	NS	NS	100.0**	NA	NA	NA	NA	NA	NA	NA	**1.48**	NA	NA	NA	NA	**0.13**	NA	NA	**0.110**	NA	NA	NA	NA
	Cadmium	NS	NS	NS	NS	1.0**	NA	NA	NA	NA	NA	NA	NA	**0.057**	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA
	Chromium	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	0.010 U	NA	NA	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA
	Lead	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	**4.64**	**0.076**	0.015 U	NA	NA	**0.017**	NA	NA	0.015 U	NA	NA	NA	NA
	Silver	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1:
Maximum Concentration of Contaminants for Toxicity Characteristic.

TABLE 1
Summary of Analytical Detected Results for Fill Area Soil Samples
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	TRC-26			TRC-27			TRC-28				TRC-29	TRC-37	TRC-39	TRC-43				TRC-45A	
						Sample Depth (ft.):	1	5	9	1	5	7	1	4.5	4.5	7.5	8	7	12	1	4	4	8	0-1	1-3
						Sample Date:	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/26/2009	1/26/2009	1/26/2009 Field Dup	1/26/2009	1/26/2009	1/21/2009	1/21/2009	1/26/2009	1/26/2009	1/26/2009 Field Dup	1/26/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1																			
VPH																									
(mg/kg)	C9-C10 Aromatics	100	100	500	500	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																									
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs/PAHs																									
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Acenaphthylene	600	10	600	10	1	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	0.190 U	0.180 U	0.183 U	**0.331**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	**0.805**	0.188 U	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	0.190 U	0.180 U	0.183 U	**0.279**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	**0.711**	0.188 U	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	0.190 U	0.180 U	0.183 U	**0.313**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	**0.247**	**0.777**	0.188 U	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	0.190 U	0.180 U	0.183 U	**0.225**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	**0.262**	0.188 U	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	**0.329**	0.188 U	NA	NA
	Chrysene	70	70	400	400	70	0.190 U	0.180 U	0.183 U	**0.358**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	**0.252**	**0.845**	0.188 U	NA	NA
	Dibenzofuran	NS	NS	NS	NS	100	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	0.7	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	0.190 U	0.180 U	0.183 U	**0.685**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	**0.279**	**0.889**	0.188 U	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	0.190 U	0.180 U	0.183 U	**0.237**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	**0.342**	0.188 U	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Naphthalene	40	500	40	1,000	4	0.190 U	0.180 U	0.183 U	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	0.190 U	0.180 U	0.183 U	**0.662**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	0.243 U	**0.42**	0.188 U	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	0.190 U	0.180 U	0.183 U	**0.676**	0.183 U	0.198 U	NA	NA	NA	NA	NA	0.184 U	NA	1.07 U	**0.303**	**0.952**	0.188 U	NA	NA
PCBs																									
(mg/kg)	Aroclor 1242	2	2	3	3	2	0.0502 U	0.0504 U	0.0540 U	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	0.0538 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1254	2	2	3	3	2	0.0502 U	0.0504 U	0.0540 U	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	0.0538 U	NA	**0.197 ***	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1260	2	2	3	3	2	0.0502 U	0.0504 U	0.0540 U	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	0.0538 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Total PCBs	2	2	3	3	2	0.0502 U	0.0504 U	0.0540 U	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	0.0538 U	NA	**0.197**	0.0679 U	0.0643 U	0.0540 U	NA	NA
Total Petroleum Hydrocarbons																									
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																									
(mg/kg)	Antimony	20	20	30	30	20	4.55 U	4.32 U	4.38 U	4.72 U	4.39 U	4.75 U	4.38 U	5.52 U	5.48 U	5.48 U	4.57 U	4.41 U	4.89 U	5.09 U	5.83 U	5.73 U	4.51 U	NA	NA
	Arsenic	20	20	20	20	20	**4.71**	2.70 U	2.74 U	**7.12**	**3.67**	**4.00**	2.74 U	**17.8**	**21.3**	**5.41**	2.86 U	2.76 U	3.06 U	**5.78**	**8.69**	**8.70**	2.82 U	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	**18.5**	**30.2**	**36.7**	**20.1**	**19.7**	**14.6**	**32.3**	**399**	**482**	**37.2**	**9.89**	**29.9**	**21.4**	**60.8**	**326**	**273**	**13.8**	NA	NA
	Beryllium	100	100	200	200	100	0.29 U	0.27 U	0.28 U	0.30 U	0.28 U	0.30 U	0.28 U	**1.10**	**1.05**	0.35 U	0.29 U	0.28 U	**0.38**	0.32 U	**0.90**	**0.70**	0.29 U	NA	NA
	Cadmium	2	2	30	30	2	0.29 U	0.27 U	0.28 U	**0.38**	0.28 U	0.30 U	0.28 U	**0.83**	**1.01**	0.35 U	0.29 U	0.28 U	0.31 U	0.32 U	**1.26**	**1.07**	0.29 U	NA	NA
	Chromium	30	30	200	200	30	**8.07**	**11.6**	**9.75**	**7.89**	**12.2**	**10.5**	**12.1**	**15.3**	**18.2**	**8.42**	**4.72**	**21.0**	**8.37**	**23.8**	**23.6**	**22.4**	**5.10**	NA	NA
	Lead	300	300	300	300	300	**15.3**	**0.98**	**0.94**	**16.1**	**7.24**	**2.75**	**3.93**	**719**	**920**	**6.41**	**2.70**	**4.16**	**6.30**	**75.4**	**801**	**627**	**3.10**	**43.5**	**278**
	Nickel	20	20	700	700	20	**4.17**	**6.93**	**6.25**	**4.78**	**6.23**	**2.44**	**5.36**	**15.2**	**16.7**	**4.56**	**1.82**	**9.77**	**5.61**	**9.90**	**15.8**	**12.8**	**2.23**	NA	NA
	Selenium	400	400	800	800	400	5.68 U	5.40 U	5.47 U	5.89 U	5.48 U	5.94 U	5.47 U	6.90 U	6.85 U	6.84 U	5.71 U	5.51 U	6.11 U	6.37 U	7.28 U	7.16 U	5.64 U	NA	NA
	Silver	100	100	200	200	100	0.57 U	0.54 U	0.55 U	0.59 U	0.55 U	0.60 U	0.55 U	0.69 U	0.69 U	0.69 U	0.58 U	0.56 U	0.62 U	0.64 U	0.73 U	0.72 U	0.57 U	NA	NA
	Vanadium	600	600	1,000	1,000	600	**10.3**	**12.4**	**13.8**	**9.13**	**15.8**	**17.8**	**12.6**	**39.0**	**39.6**	**12.4**	5.71 U	**13.0**	**12.5**	**31.7**	**31.9**	**29.8**	5.64 U	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	**21.7**	**18.2**	**20.5**	**19.0**	**21.7**	**11.4**	**16.6**	**266**	**338**	**64.8**	**18.3**	**56.3**	**23.7**	**55.2**	**551**	**415**	**12.4**	NA	NA
	Mercury	20	20	30	30	20	**0.027**	0.017 U	0.015 U	**0.039**	**0.031**	**0.028**	0.011 U	**0.193**	**0.290**	0.012 U	0.012 U	0.017 U	0.020 U	**0.106**	**0.234**	**0.414**	0.013 U	NA	NA
Metals,TCLP																									
(mg/L)	Barium	NS	NS	NS	NS	100.0**	NA	NA	NA	NA	NA	NA	**0.230**	**1.07**	**1.18**	**0.170**	**0.12**	NA	**0.18**	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NS	NS	1.0**	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	**0.050**	0.010 U	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	0.015 U	**0.195**	**0.299**	0.015 U	0.015 U	NA	0.015 U	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NS	NS	5.0**	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	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.

NA - Sample not analyzed for the listed analyte.

ND - Not detected; quantitation limits not available in historical data reports.

NS - No MassDEP standards exist for this compound.

R - Rejected data point due to matrix spike recovery <30%.

U - Compound was not detected at specified quantitation limit.

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

Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

VPH - Volatile Petroleum Hydrocarbons.

RC - Reportable Concentration.

SVOCs - Semivolatile Organic Compounds.

TCLP - Toxicity Characteristic Leaching Procedure.

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

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1:
Maximum Concentration of Contaminants for Toxicity Characteristic.

TABLE 1
Summary of Analytical Detected Results for Fill Area Soil Samples
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	TRC-47			TRC-48				TRC-49			TRC-50	TRC-51			TRC-52			TRC-53		
						Sample Depth (ft.):	1	5	8	1	4	4	8	1	5	8	7	1	4	7	1	4	7	1	4	6
						Sample Date:	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1						Field Dup														
VPH																										
(mg/kg)	C9-C10 Aromatics	100	100	500	500	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																										
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs/PAHs																										
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.10**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.93**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.48**	0.182 U	0.200 U	**1.11**	0.183 U	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.22**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.01**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.29**	0.182 U	0.200 U	**1.18**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	NS	NS	NS	NS	100	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	0.7	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	**0.287**	7.03 U	0.195 U	0.229 U	2.24 U	**5.24**	0.182 U	0.200 U	**2.00**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.74**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.19**	0.182 U	0.200 U	**1.99**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**5.54**	0.182 U	0.200 U	**2.61**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																										
(mg/kg)	Aroclor 1242	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																										
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																										
(mg/kg)	Antimony	20	20	30	30	20	5.48 U	6.75 U	4.68 U	5.50 U	5.37 U	5.79 U	4.37 U	4.80 U	5.26 U	4.39 U	4.39 U	5.46 U	**94.2**	4.31 U	5.62 U	5.01 U	4.73 U	5.43 U	4.83 U	4.62 U
	Arsenic	20	20	20	20	20	**4.59**	**13.3**	2.93 U	**5.94**	**8.44**	**14.1**	2.73 U	**4.03**	**4.48**	**3.42**	**7.54**	**4.64**	**16.1**	2.70 U	**5.34**	**21.7**	2.96 U	**5.40**	**9.99**	**3.25**
	Barium	1,000	1,000	3,000	3,000	1,000	**44.6**	**1,680**	**13.8**	**40.4**	**371**	**423**	**22.3**	**28.3**	**292**	**27.0**	**114**	**62.2**	**302**	**15.3**	**51.4**	**708**	**38.7**	**41.1**	**606**	**18.0**
	Beryllium	100	100	200	200	100	0.35 U	**1.53**	0.30 U	0.35 U	0.34 U	**0.85**	0.28 U	0.30 U	0.33 U	0.28 U	0.28 U	0.35 U	**1.07**	0.27 U	0.36 U	**1.24**	0.30 U	0.34 U	**0.79**	**0.49**
	Cadmium	2	2	30	30	2	0.35 U	**6.49**	0.30 U	0.35 U	**1.32**	**2.59**	0.28 U	0.30 U	**1.44**	0.28 U	**0.38**	**0.62**	**1.38**	0.27 U	**0.39**	**1.21**	0.30 U	0.34 U	**2.01**	0.29 U
	Chromium	30	30	200	200	30	**13.8**	**40.8**	**4.99**	**15.2**	**18.3**	**28.2**	**11.1**	**13.4**	**17.6**	**17.8**	**103**	**23.7**	**28.0**	**8.52**	**16.7**	**24.6**	**16.0**	**13.8**	**39.6**	**8.24**
	Lead	300	300	300	300	300	**73.2**	**1,030**	**2.53**	**92.2**	**820**	**1,330**	**3.96**	**43.0**	**840**	**4.02**	**6.39**	**158**	**668**	**4.86**	**78.9**	**1,110**	**7.27**	**66.6**	**703**	**4.56**
	Nickel	20	20	700	700	20	**7.77**	**25.9**	**2.44**	**6.18**	**10.9**	**20.2**	**5.35**	**4.68**	**7.94**	**7.83**	**33.2**	**13.7**	**78.5**	**3.18**	**6.20**	**17.6**	**8.15**	**6.59**	**12.6**	**5.18**
	Selenium	400	400	800	800	400	6.84 U	8.44 U	5.85 U	6.87 U	6.72 U	7.23 U	5.46 U	5.99 U	6.58 U	5.49 U	5.49 U	6.83 U	7.69 U	5.39 U	7.02 U	**6.60**	5.91 U	6.79 U	6.04 U	5.78 U
	Silver	100	100	200	200	100	0.69 U	0.85 U	0.59 U	0.69 U	0.68 U	**1.56**	0.55 U	0.60 U	0.66 U	0.55 U	**0.56**	0.69 U	0.77 U	0.54 U	0.71 U	0.63 U	0.60 U	0.68 U	0.61 U	0.58 U
	Vanadium	600	600	1,000	1,000	600	**22.0**	**36.7**	5.85 U	**24.7**	**17.5**	**26.2**	**13.1**	**19.1**	**15.7**	**19.5**	**31.0**	**32.7**	**39.7**	**5.95**	**23.9**	**30.5**	**16.9**	**25.2**	**23.4**	**11.2**
	Zinc	2,500	2,500	3,000	3,000	2,500	**63.5**	**1830**	**13.0**	**58.3**	**527**	**848**	**31.7**	**31.3**	**294**	**29.2**	**114**	**97.5**	**695**	**47.0**	**60.2**	**653**	**29.1**	**47.5**	**1240**	**20.2**
	Mercury	20	20	30	30	20	**0.109**	**0.497**	0.010 U	**0.120**	**0.237**	**0.340**	0.014 U	**0.085**	**0.363**	0.013 U	0.013 U	**0.128**	**0.070**	**0.024**	**0.126**	**0.077**	0.010 U	**0.089**	**0.286**	0.017 U
Metals,TCLP																										
(mg/L)	Barium	NS	NS	NS	NS	100.0**	**0.26**	**1.05**	**0.30**	**1.15**	**0.95**	**1.11**	**0.24**	**0.25**	**0.96**	**0.36**	**0.31**	**0.44**	**0.27**	**0.24**	**0.34**	**1.88**	**0.24**	**0.27**	**1.56**	**0.20**
	Cadmium	NS	NS	NS	NS	1.0**	0.005 U	**0.031**	0.005 U	**0.010**	**0.021**	**0.039**	0.005 U	0.005 U	**0.008**	0.005 U	0.005 U	**0.006**	0.005 U	0.005 U	0.005 U	**0.017**	0.005 U	0.005 U	**0.011**	0.005 U
	Chromium	NS	NS	NS	NS	5.0**	0.01 U	0.01 U	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	0.01 U	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**
	Lead	NS	NS	NS	NS	5.0**	**0.036**	**0.518**	0.015 U	**2.31**	**1.55**	**2.78**	0.015 U	**0.044**	**0.351**	0.015 U	0.015 U	**0.179**	**0.083**	0.015 U	**0.075**	**1.23**	0.015 U	**0.073**	**0.580**	**0.032**
	Silver	NS	NS	NS	NS	5.0**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.018**	0.005 U	0.005 U	0.005 U	0.005 U	**0.030**	0.005 U	0.005 U	0.005 U	**0.006**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

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.

NA - Sample not analyzed for the listed analyte.

ND - Not detected; quantitation limits not available in historical data reports.

NS - No MassDEP standards exist for this compound.

R - Rejected data point due to matrix spike recovery <30%.

U - Compound was not detected at specified quantitation limit.

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

Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.

EPH - Extractable Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

VPH - Volatile Petroleum Hydrocarbons.

RC - Reportable Concentration.

SVOCs - Semivolatile Organic Compounds.

TCLP - Toxicity Characteristic Leaching Procedure.

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

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1:
Maximum Concentration of Contaminants for Toxicity Characteristic.

TABLE 1
Summary of Analytical Detected Results for Fill Area Soil Samples
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	TRC-54				TRC-55	A3-3		A3-4		A5-1		A5-2			A5-3		A5-4	
						Sample Depth (ft.):	1	4	4	7	8	0-1	1-3	0-1	1-3	0.5-1	1-3	0.5-1	1-3	1-3	0.5-1	1-3	0.5-1	1-3
						Sample Date:	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1			Field Dup															
VPH																								
(mg/kg)	C9-C10 Aromatics	100	100	500	500	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																								
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs/PAHs																								
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	NS	NS	NS	NS	100	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	0.7	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	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																								
(mg/kg)	Aroclor 1242	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																								
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																								
(mg/kg)	Antimony	20	20	30	30	20	5.02 U	5.54 U	5.32 U	7.86 U	4.94 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	**4.39**	**27.2**	**27.4**	4.92 U	**4.16**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	**47.0**	**749**	**589**	**34.4**	**32.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	0.32 U	**1.29**	**1.46**	0.50 U	0.31 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	**0.39**	**1.29**	**2.65**	0.50 U	0.31 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	**25.6**	**23.6**	**27.8**	**13.9**	**11.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	**116**	**1,380**	**989**	**9.27**	**7.61**	**26.0**	**76.8**	**93.7**	**284**	**458**	**6.20**	**32.6**	**751**	**1,320**	**6.52**	**295**	**15.9**	**4.98**
	Nickel	20	20	700	700	20	**12.3**	**44.3**	**44.1**	**9.44**	**8.46**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	6.27 U	6.92 U	6.65 U	9.83 U	6.17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	0.63 U	0.70 U	0.67 U	0.99 U	0.62 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	**24.7**	**48.9**	**55.2**	**13.4**	**16.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	**96.8**	**664**	**1000**	**249**	**32.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	**0.061**	**0.198**	**0.237**	0.040 U	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals,TCLP																								
(mg/L)	Barium	NS	NS	NS	NS	100.0**	**0.33**	**0.97**	**0.96**	**0.16**	**0.28**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NS	NS	1.0**	0.005 U	0.005 U	**0.007**	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NS	NS	5.0**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NS	NS	5.0**	**0.112**	**0.657**	**0.703**	0.015 U	**0.016**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NS	NS	5.0**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1:
Maximum Concentration of Contaminants for Toxicity Characteristic.

TABLE 2
Summary of Analytical Results for Groundwater Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	TRC-01		TRC-02
		Sample Date:	1/29/2009	1/29/2009	1/29/2009
		GW-3		Field Dup	
SVOCs, total					
(ug/L)	Acenaphthene	6,000	5.00 U	5.00 U	5.00 U
	Acenaphthylene	40	5.00 U	5.00 U	5.00 U
	Acetophenone	NS	10.0 U	10.0 U	10.0 U
	Aniline	NS	5.00 U	5.00 U	5.00 U
	Anthracene	30	6.00 U	6.00 U	6.00 U
	Benzo(a)anthracene	1,000	5.00 U	5.00 U	5.00 U
	Benzo(a)pyrene	500	5.00 U	5.00 U	5.00 U
	Benzo(b)fluoranthene	400	5.00 U	5.00 U	5.00 U
	Benzo(g,h,i)perylene	20	5.00 U	5.00 U	5.00 U
	Benzo(k)fluoranthene	100	5.00 U	5.00 U	5.00 U
	Bis(2-chloroethoxy)methane	NS	10.0 U	10.0 U	10.0 U
	Bis(2-chloroethyl)ether	50,000	10.0 U	10.0 U	10.0 U
	Bis(2-chloroisopropyl)ether	NS	10.0 U	10.0 U	10.0 U
	Bis(2-ethylhexyl)phthalate	50,000	10.0 U	10.0 U	10.0 U
	4-Bromophenyl phenyl ether	NS	10.0 U	10.0 U	10.0 U
	Butylbenzylphthalate	NS	20.0 U	20.0 U	20.0 U
	4-Chloroaniline	300	20.0 U	20.0 U	20.0 U
	2-Chloronaphthalene	NS	10.0 U	10.0 U	10.0 U
	Chrysene	70	5.00 U	5.00 U	5.00 U
	Dibenzofuran	NS	10.0 U	10.0 U	10.0 U
	Dibenz(a,h)anthracene	40	5.40 U	5.40 U	5.40 U
	1,2-Dichlorobenzene	2,000	5.00 U	5.00 U	5.00 U
	1,3-Dichlorobenzene	50,000	5.00 U	5.00 U	5.00 U
	1,4-Dichlorobenzene	8,000	5.00 U	5.00 U	5.00 U
	3,3-Dichlorobenzidine	2,000	10.0 U	10.0 U	10.0 U
	Diethylphthalate	9,000	10.0 U	10.0 U	10.0 U
	Dimethylphthalate	50,000	20.0 U	20.0 U	20.0 U
	Di-n-butylphthalate	NS	10.0 U	10.0 U	10.0 U
	Di-n-octylphthalate	NS	20.0 U	20.0 U	20.0 U
	2,4-Dinitrotoluene	50,000	10.0 U	10.0 U	10.0 U
	2,6-Dinitrotoluene	NS	10.0 U	10.0 U	10.0 U
	Azobenzene	NS	10.0 U	10.0 U	10.0 U
	Fluoranthene	200	5.00 U	5.00 U	5.00 U
	Fluorene	40	5.00 U	5.00 U	5.00 U
	Hexachlorobenzene	6,000	10.0 U	10.0 U	10.0 U
	Hexachlorobutadiene	3,000	10.0 U	10.0 U	10.0 U
	Hexachloroethane	50,000	10.0 U	10.0 U	10.0 U
	Indeno(1,2,3-cd)pyrene	100	5.00 U	5.00 U	5.00 U
	Isophorone	NS	10.0 U	10.0 U	10.0 U
	2-Methylnaphthalene	20,000	5.00 U	5.00 U	5.00 U
	Naphthalene	20,000	5.00 U	5.00 U	5.00 U
	Nitrobenzene	NS	10.0 U	10.0 U	10.0 U
	Phenanthrene	10,000	5.00 U	5.00 U	5.00 U
	Pyrene	20	5.00 U	5.00 U	5.00 U
	1,2,4-Trichlorobenzene	50,000	5.00 U	5.00 U	5.00 U

TABLE 2
Summary of Analytical Results for Groundwater Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	TRC-01		TRC-02
		Sample Date:	1/29/2009	1/29/2009	1/29/2009
		GW-3		Field Dup	
SVOCs, dissolved					
(ug/L)	Acenaphthene	6,000	5.00 U	5.00 U	5.00 U
	Acenaphthylene	40	5.00 U	5.00 U	5.00 U
	Acetophenone	NS	10.0 U	10.0 U	10.0 U
	Aniline	NS	5.00 U	5.00 U	5.00 U
	Anthracene	30	6.00 U	6.00 U	6.00 U
	Benzo(a)anthracene	1,000	5.00 U	5.00 U	5.00 U
	Benzo(a)pyrene	500	5.00 U	5.00 U	5.00 U
	Benzo(b)fluoranthene	400	5.00 U	5.00 U	5.00 U
	Benzo(g,h,i)perylene	20	5.00 U	5.00 U	5.00 U
	Benzo(k)fluoranthene	100	5.00 U	5.00 U	5.00 U
	Bis(2-chloroethoxy)methane	NS	10.0 U	10.0 U	10.0 U
	Bis(2-chloroethyl)ether	50,000	10.0 U	10.0 U	10.0 U
	Bis(2-chloroisopropyl)ether	NS	10.0 U	10.0 U	10.0 U
	Bis(2-ethylhexyl)phthalate	50,000	10.0 U	10.0 U	10.0 U
	4-Bromophenyl phenyl ether	NS	10.0 U	10.0 U	10.0 U
	Butylbenzylphthalate	NS	20.0 U	20.0 U	20.0 U
	4-Chloroaniline	300	20.0 U	20.0 U	20.0 U
	2-Chloronaphthalene	NS	10.0 U	10.0 U	10.0 U
	Chrysene	70	5.00 U	5.00 U	5.00 U
	Dibenzofuran	NS	10.0 U	10.0 U	10.0 U
	Dibenz(a,h)anthracene	40	5.40 U	5.40 U	5.40 U
	1,2-Dichlorobenzene	2,000	5.00 U	5.00 U	5.00 U
	1,3-Dichlorobenzene	50,000	5.00 U	5.00 U	5.00 U
	1,4-Dichlorobenzene	8,000	5.00 U	5.00 U	5.00 U
	3,3-Dichlorobenzidine	2,000	10.0 U	10.0 U	10.0 U
	Diethylphthalate	9,000	10.0 U	10.0 U	10.0 U
	Dimethylphthalate	50,000	20.0 U	20.0 U	20.0 U
	Di-n-butylphthalate	NS	10.0 U	10.0 U	10.0 U
	Di-n-octylphthalate	NS	20.0 U	20.0 U	20.0 U
	2,4-Dinitrotoluene	50,000	10.0 U	10.0 U	10.0 U
	2,6-Dinitrotoluene	NS	10.0 U	10.0 U	10.0 U
	Azobenzene	NS	10.0 U	10.0 U	10.0 U
	Fluoranthene	200	5.00 U	5.00 U	5.00 U
	Fluorene	40	5.00 U	5.00 U	5.00 U
	Hexachlorobenzene	6,000	10.0 U	10.0 U	10.0 U
	Hexachlorobutadiene	3,000	10.0 U	10.0 U	10.0 U
	Hexachloroethane	50,000	10.0 U	10.0 U	10.0 U
	Indeno(1,2,3-cd)pyrene	100	5.00 U	5.00 U	5.00 U
	Isophorone	NS	10.0 U	10.0 U	10.0 U
	2-Methylnaphthalene	20,000	5.00 U	5.00 U	5.00 U
	Naphthalene	20,000	5.00 U	5.00 U	5.00 U
	Nitrobenzene	NS	10.0 U	10.0 U	10.0 U
	Phenanthrene	10,000	5.00 U	5.00 U	5.00 U
	Pyrene	20	5.00 U	5.00 U	5.00 U
	1,2,4-Trichlorobenzene	50,000	5.00 U	5.00 U	5.00 U

TABLE 2
Summary of Analytical Results for Groundwater Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	TRC-01				TRC-02	
		Sample Date:	1/29/2009		1/29/2009		1/29/2009	
		GW-3			Field Dup			
Metals, total								
(ug/L)	Antimony	8,000	40	U	40	U	40	U
	Arsenic	900	5.0	U	**7.0**		5.0	U
	Barium	50,000	**219**		**225**		**184**	
	Beryllium	200	2.0	U	2.0	U	2.0	U
	Cadmium	4	2.5	U	2.5	U	2.5	U
	Chromium	300	5.0	U	5.0	U	5.0	U
	Lead	10	7.5	U	7.5	U	7.5	U
	Nickel	200	5.0	U	5.0	U	5.0	U
	Selenium	100	30	U	30	U	30	U
	Silver	7	3.0	U	5.0	U	3.0	U
	Thallium	3,000	30	U	30	U	30	U
	Vanadium	4,000	25	U	25	U	25	U
	Zinc	900	**18**		**38**		**174**	
	Mercury	20	0.10	U	0.10	U	0.10	U
Metals, dissolved								
(ug/L)	Antimony	8,000	40	U	40	U	40	U
	Arsenic	900	5.0	U	**7.0**		5.0	U
	Barium	50,000	**217**		**217**		**176**	
	Beryllium	200	2.0	U	2.0	U	2.0	U
	Cadmium	4	2.5	U	2.5	U	2.5	U
	Chromium	300	5.0	U	5.0	U	5.0	U
	Lead	10	7.5	U	7.5	U	7.5	U
	Nickel	200	5.0	U	5.0	U	5.0	U
	Selenium	100	30	U	30	U	30	U
	Silver	7	3.0	U	5.0	U	3.0	U
	Thallium	3,000	30	U	30	U	30	U
	Vanadium	4,000	25	U	25	U	25	U
	Zinc	900	**22**		**20**		**174**	
	Mercury	20	0.10	U	0.10	U	0.10	U

Notes:

All units in ug/L unless otherwise specified.

ug/L - micrograms per liter.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

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

SVOCs - Semivolatile Organic Compounds.

TABLE 3
Summary of Analytical Results for Transformer Area Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	TF-E		TF-N		TF-S		TF-S2		TF-S3	TF-N2		TF-N4		TF-N6
						Sample Depth (ft.)*:	0-3/2	6-7/7	0-3/2	6-7/7	0-3/2	5-6/6	0-3/2	6-7/6	6-7/6	2.5-3	7.5-8	3	8	7
						Sample Date:	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**														
VPH																				
(mg/kg)	C5-C8 Aliphatics	100	100	500	500	100	17 U	37 U	22 U	36 U	23 U	29 U	19 U	27 U	26 U	18 U	39 U	21 U	30 U	27 U
	C9-C12 Aliphatics	1,000	1,000	3,000	3,000	1,000	12 U	25 U	15 U	**34**	15 U	19 U	12 U	18 U	18 U	12 U	26 U	14 U	20 U	18 U
	C9-C10 Aromatics	100	100	500	500	100	12 U	25 U	15 U	24 U	15 U	19 U	12 U	18 U	18 U	12 U	26 U	14 U	20 U	18 U
	Benzene	30	30	200	200	2	0.058 U	0.12 U	0.073 U	0.12 U	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	0.10 U	0.091 U
	Ethylbenzene	500	500	1,000	1,000	40	0.058 U	0.12 U	0.073 U	**0.12**	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	**0.15**	0.091 U
	MTBE	100	100	100	500	0.1	0.058 U	0.12 U	0.073 U	0.12 U	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	0.10 U	0.091 U
	Naphthalene	40	500	40	1,000	4	0.58 U	1.2 U	0.73 U	**4.1**	0.76 U	0.96 U	0.62 U	0.90 U	0.88 U	0.59 U	1.3 U	0.68 U	**5.6**	0.91 U
	Toluene	500	500	1,000	1,000	30	0.058 U	0.12 U	0.073 U	0.12 U	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	**0.29**	0.091 U
	m/p-Xylene	300	500	300	1,000	300	0.12 U	0.25 U	0.15 U	0.24 U	0.15 U	0.19 U	0.12 U	0.18 U	0.18 U	0.12 U	0.26 U	0.14 U	0.20 U	0.18 U
	o-Xylene	300	500	300	1,000	300	0.058 U	0.12 U	0.073 U	**0.16**	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	**0.19**	0.091 U
EPH																				
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	3,000	3,000	1,000	11 U	13 U	11 U	670 U	11 U	1,200 U	11 U	26 U	12 U	11 U	690 U	11 U	630 U	**450**
	C19-C36 Aliphatics	3,000	3,000	5,000	5,000	3,000	**150**	**21**	11 U	**10,000**	**23**	**50,000**	**16**	**590**	12 U	**22**	**7,400**	**11**	**4,000**	**2,800**
	C11-C22 Aromatics	1,000	1,000	3,000	3,000	1,000	**98**	**34**	11 U	**6,800**	**23**	**21,000**	**16**	**290**	**13**	**16**	**4,600**	11 U	**3,500**	**1,900**
	Acenaphthene	1,000	1,000	3,000	3,000	4	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**22**	3.1 U
	Acenaphthylene	600	10	600	10	1	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**7.7**	3.1 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**12**	3.1 U
	Benzo(a)anthracene	7	7	40	40	7	0.11 U	**0.34**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**13**	**5.4**
	Benzo(a)pyrene	2	2	4	4	2	0.11 U	**0.28**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**18**	**4.7**
	Benzo(b)fluoranthene	7	7	40	40	7	0.11 U	**0.41**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**16**	**7.1**
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	0.11 U	**0.18**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**12**	**5.1**
	Benzo(k)fluoranthene	70	70	400	400	70	0.11 U	**0.14**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	6.3 U	3.1 U
	Chrysene	70	70	400	400	70	0.11 U	**0.44**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	**0.13**	6.9 U	0.11 U	**17**	**6.2**
	Dibenzo(a,h)anthracene	0.7	0.7	4	4	0.7	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	6.3 U	3.1 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	0.11 U	**0.45**	0.11 U	6.7 U	**0.12**	12 U	0.11 U	0.26 U	0.12 U	**0.22**	**9.0**	0.11 U	**15**	**9.9**
	Fluorene	1,000	1,000	3,000	3,000	1,000	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**19**	3.1 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	0.11 U	**0.20**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**8.9**	3.1 U
	2-Methylnaphthalene	80	300	80	500	0.7	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**33**	3.1 U
	Naphthalene	40	500	40	1,000	4	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**39**	3.1 U
	Phenanthrene	500	500	1,000	1,000	10	0.11 U	**0.14**	0.11 U	6.7 U	**0.11**	12 U	0.11 U	0.26 U	0.12 U	**0.16**	**12**	0.11 U	**40**	**9.3**
	Pyrene	1,000	1,000	3,000	3,000	1,000	**0.13**	**0.63**	0.11 U	6.7 U	**0.22**	12 U	0.11 U	**0.33**	0.12 U	**0.24**	**11**	0.11 U	**27**	**11**
PCBs																				
(mg/kg)	Aroclor 1016	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.52**
	Aroclor 1221	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1232	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1242	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1248	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1254	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1260	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Total PCBs	2	2	3	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.52**
Metals, total																				
(mg/kg)	Antimony	20	20	30	30	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.9 U
	Arsenic	20	20	20	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**
	Barium	1,000	1,000	3,000	3,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**180**
	Beryllium	100	100	200	200	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.31 U
	Cadmium	2	2	30	30	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.74**
	Chromium	30	30	200	200	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**9.2**
	Lead	300	300	300	300	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**630**
	Nickel	20	20	700	700	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6.0**
	Selenium	400	400	800	800	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2 U
	Silver	100	100	200	200	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.62 U
	Thallium	8	8	60	60	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U
	Vanadium	600	600	1,000	1,000	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**15**
	Zinc	2,500	2,500	3,000	3,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**190**
	Mercury	20	20	30	30	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.27**

Notes:

All units in mg/kg unless otherwise specified.

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

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

U - Compound was not detected at specified quantitation limit.

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

Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.

EPH - Extractable Petroleum Hydrocarbons.

VPH - Volatile Petroleum Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

* - Sample depth for EPH /VPH analysis.

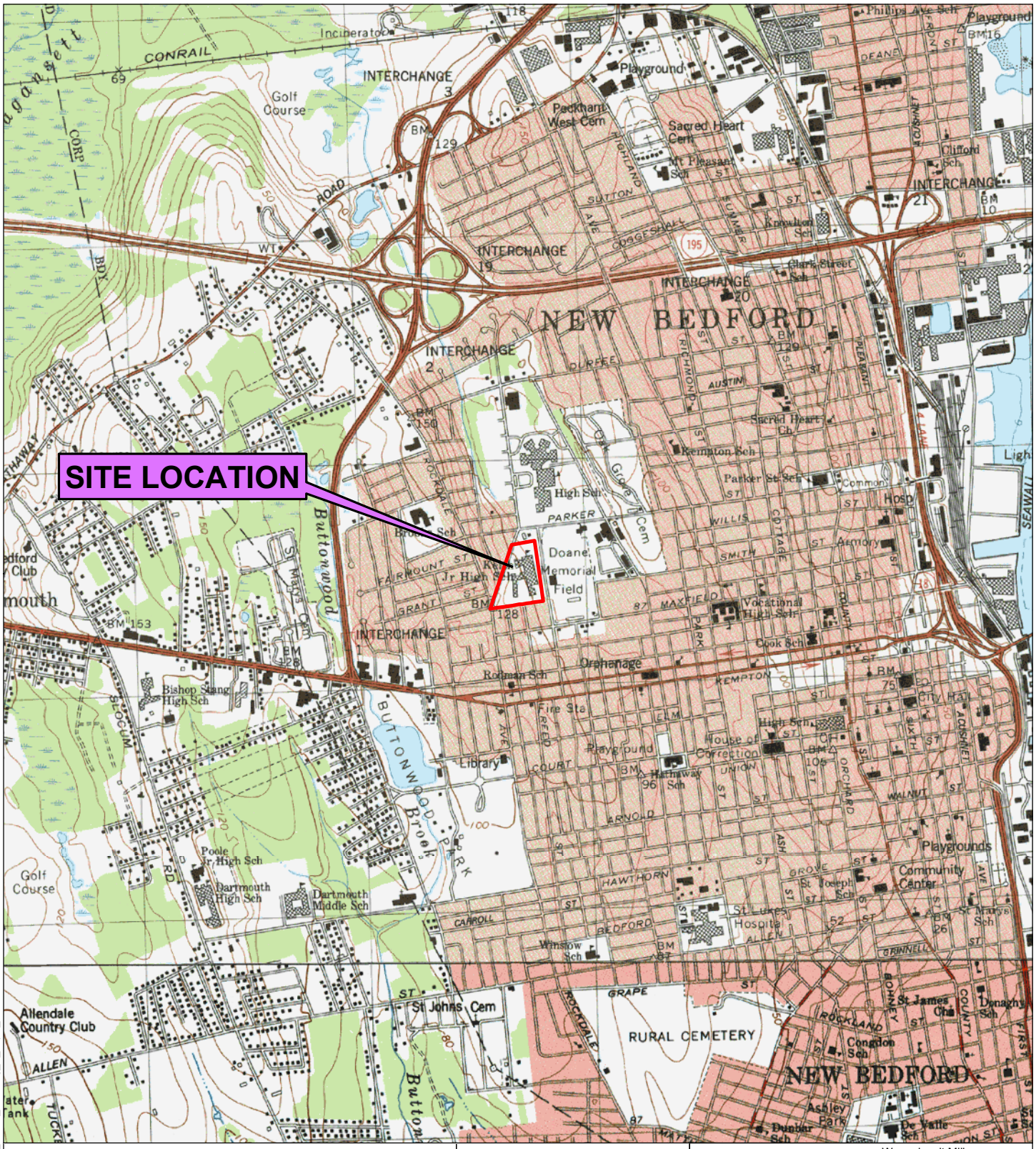
** - For reference purposes only.

TABLE 4
Comparison of Soil Results to MassDEP Ash Background Concentrations
New Andrea MCoy Field
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	# of Samples	# of Detects	Freq. of Detects	Max. of Detects (mg/kg)	Mean Concentration (mg/kg)	90 Percentile (mg/kg)	MassDEP Background Concentrations Ash[1] (mg/kg)	MassDEP Background Concentrations Ash Maximum Concentration[2] (mg/kg)
SVOCs/PAHs														
	2-Methylnaphthalene	80	300	80	500	0.7	68	2	2.9%	0.41	0.2	0.42	1	13
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	68	4	5.9%	0.97	0.2	0.50	2	42
	Acenaphthylene	600	10	600	10	1	68	4	5.9%	1.1	0.2	0.50	1	10
	Anthracene	1,000	1,000	3,000	3,000	1,000	68	6	8.8%	4.2	0.3	0.50	4	130
	Benzo(a)anthracene	7	7	40	40	7	68	19	27.9%	5.6	0.4	1.01	9	250
	Benzo(a)pyrene	2	2	4	4	2	68	18	26.5%	3.6	0.3	0.97	7	230
	Benzo(b)fluoranthene	7	7	40	40	7	68	20	29.4%	4.2	0.4	1.17	8	270
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	68	11	16.2%	1.3	0.2	0.51	3	77
	Benzo(k)fluoranthene	70	70	400	400	70	68	8	11.8%	1.4	0.2	0.58	4	150
	Chrysene	70	70	400	400	70	68	20	29.4%	5	0.4	1.02	7	240
	Dibenz(a,h)anthracene	0.7	0.7	4	4	0.7	68	4	5.9%	0.65	0.2	0.49	1	39
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	68	23	33.8%	10	0.6	1.86	10	490
	Fluorene	1,000	1,000	3,000	3,000	1,000	68	4	5.9%	2	0.2	0.58	2	79
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	68	10	14.7%	1.6	0.2	0.55	3	100
	Naphthalene	40	500	40	1,000	4	68	2	2.9%	0.43	0.2	0.42	1	28
	Phenanthrene	500	500	1,000	1,000	10	68	21	30.9%	16	0.6	1.30	20	480
	Pyrene	1,000	1,000	3,000	3,000	1,000	68	22	32.4%	10	0.6	1.81	20	440
Metals, total														
(mg/kg)	Mercury	20	20	30	30	20	76	43	56.6%	6.99	0.2	0.25	1	23
	Arsenic	20	20	20	20	20	76	46	60.5%	27.3	4.8	11.98	20	99
	Barium	1,000	1,000	3,000	3,000	1,000	76	76	100.0%	1680	117.1	330.00	50	680 [3]
	Beryllium	100	100	200	200	100	53	11	20.8%	1.53	0.3	0.80	0.9	7.5
	Cadmium	2	2	30	30	2	76	35	46.1%	9.13	0.8	1.70	3	25
	Chromium	30	30	200	200	30	76	76	100.0%	116	16.5	27.50	40	530
	Lead	300	300	300	300	300	100	97	97.0%	1330	186.0	704.10	600	11,000
	Nickel	20	20	700	700	20	53	53	100.0%	78.5	11.2	21.16	30	220
	Silver	100	100	200	200	100	76	5	6.6%	0.95	0.3	0.72	5	81
	Vanadium	600	600	1,000	1,000	600	53	47	88.7%	52.05	18.8	35.90	30	46.6 [4]
	Zinc	2,500	2,500	3,000	3,000	2,500	53	53	100.0%	1830	186.9	645.80	300	5000

Notes:
All units in mg/kg unless otherwise specified.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
N/A - Not applicable.
PAHs - Polynuclear Aromatic Hydrocarbons.
RC - Reportable Concentration.
1 - MADEP Technical Update - Background Levels of Polycyclis Aromatic Hydrocarbons and Metals in Soil (1992) - Table 1
2 - MADEP Technical Update - Background Levels of Polycyclis Aromatic Hydrocarbons and Metals in Soil (1992) - Appendix A CA/T Project
3 - MADEP Technical Update - Background Levels of Polycyclis Aromatic Hydrocarbons and Metals in Soil (1992) - Appendix A H&A 2001
4 - MADEP Technical Update - Background Levels of Polycyclis Aromatic Hydrocarbons and Metals in Soil (1992) - Appendix A DEP 1995

FIGURES

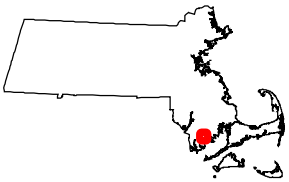


Approximate Site Boundary

N

0 1,000 2,000 Feet

MASSACHUSETTS



SITE LOCATION

TRC

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

FIGURE 1

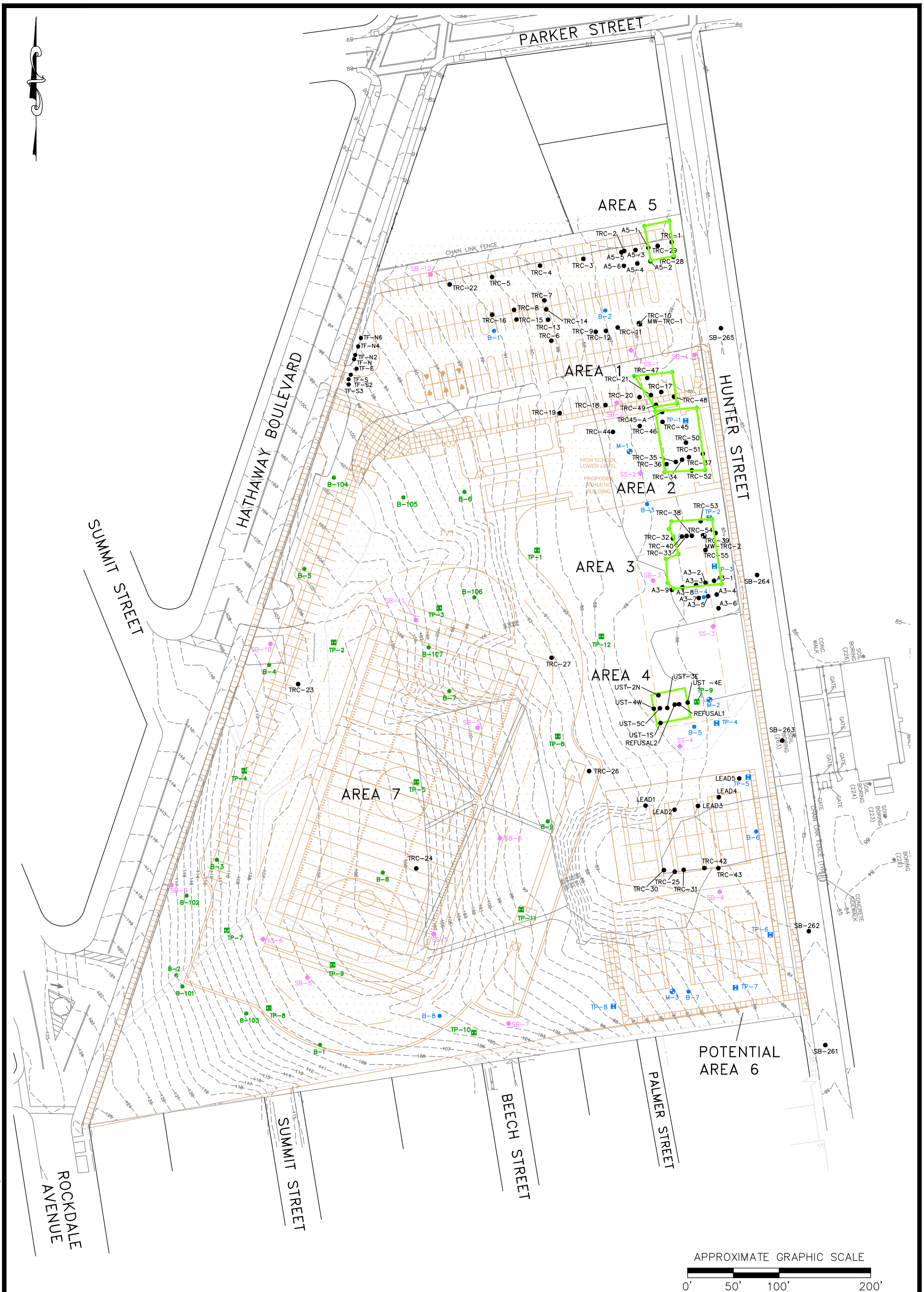
SITE LOCATION MAP

NEW ANDREA MCCOY FIELD SITE

NEW BEDFORD, MA

Base map: USGS 7.5 Minute Topographic Quadrangles
New Bedford South (1977) New Bedford North (1979)

R:\Projects\GIS_2007\54634_NBedford\MXDS_KJHS_UST\Fig_1_Topo_032411.mxd



LEGEND:

- TRC BORINGS
- TRC MONITORING WELLS
- MILLER ENGINEERING BORINGS
- MILLER ENGINEERING TEST PITS
- MILLER ENGINEERING MONITORING WELLS
- LGCI TEST PITS
- LGCI BORINGS
- BETA BORINGS (APPROX.)
- BETA SURFACE SAMPLES (APPROX.)
- EXTENT OF EXCAVATIONS
- PRE-CONSTRUCTION CONDITIONS
- ATHLETIC AREAS

NEW ANDREA McCOY FIELD
NEW BEDFORD, MASSACHUSETTS

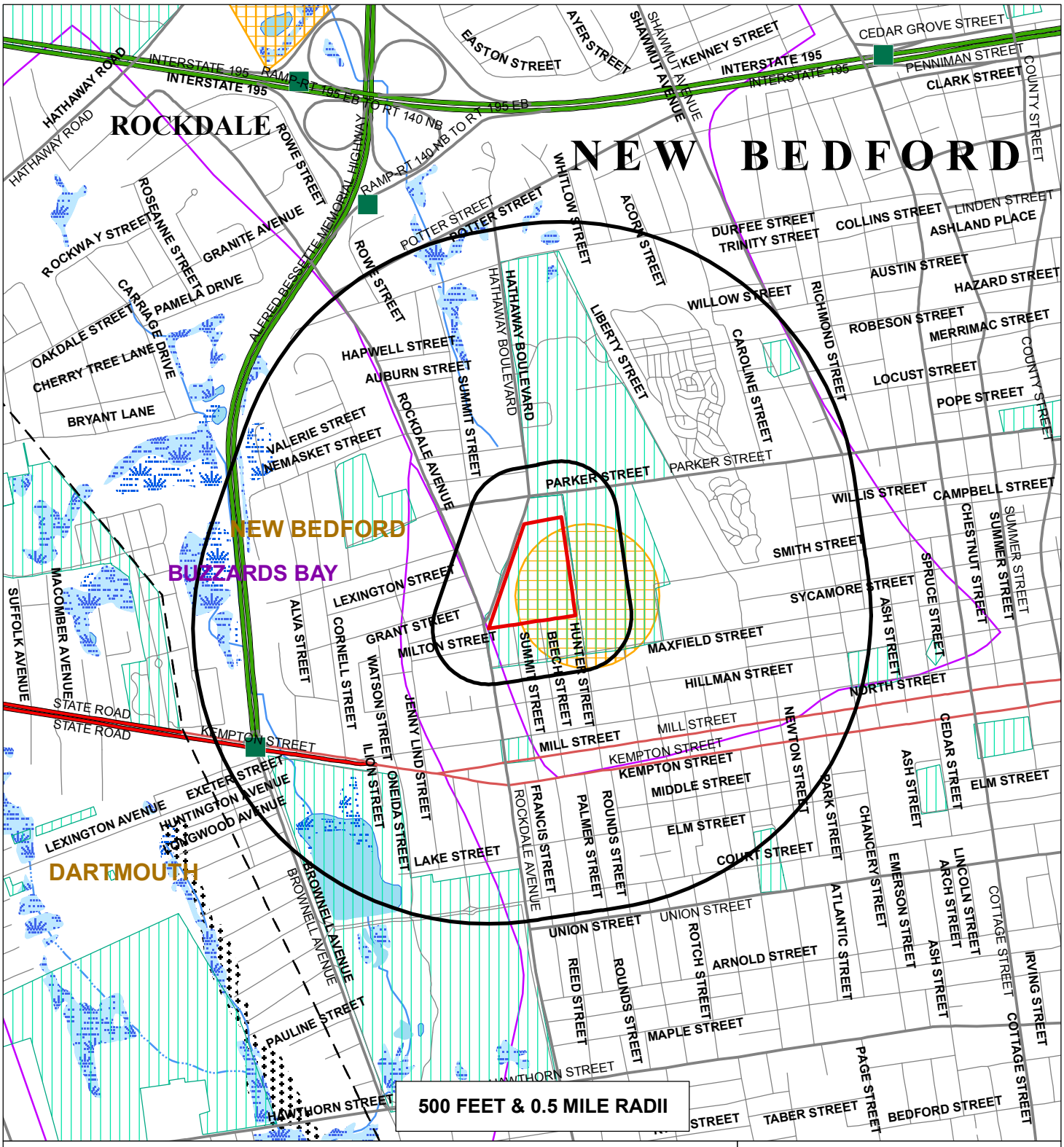
SAMPLE LOCATION MAP

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

FIGURE 2

DRAWN BY: HWB
CHECKED BY: DNP
DATE: MARCH 2011

FILE: T:\E_CAD\115058\ANDREA McCOY FIELD - SAMPLE LOCS.dwg



Roads: Limited Access, Multi-Lane, Major/Minor, Track, Trail
Railroad, Pipline, Powerline
Major Basin, Sub Basin, Perennial Stream, Intermittent Stream, Shoreline, Man made Shore, Dam, Aqueduct
Wetland, Salt Wetland, Submerged Wetland, Open Water, Reservoir, Tidal Flat/Shoal
Potentially Productive Aquifers: Medium, High Yield
Non-Potential Drinking Water Source Area: Medium, High Yield
EPA Sole Source Aquifer, FEMA 100 Yr. Floodplain, DEP Solid Waste Facility
Approved Zone II, IWPA, Surface Water Supply Zone A
Protected Open Space, ACEC
Priority Habitat 2008, Certified Vernal Pool 2010
Boundaries: County and Town
Public Water Supplies: Ground, Surface, Non-Community (NTNC, TNC)

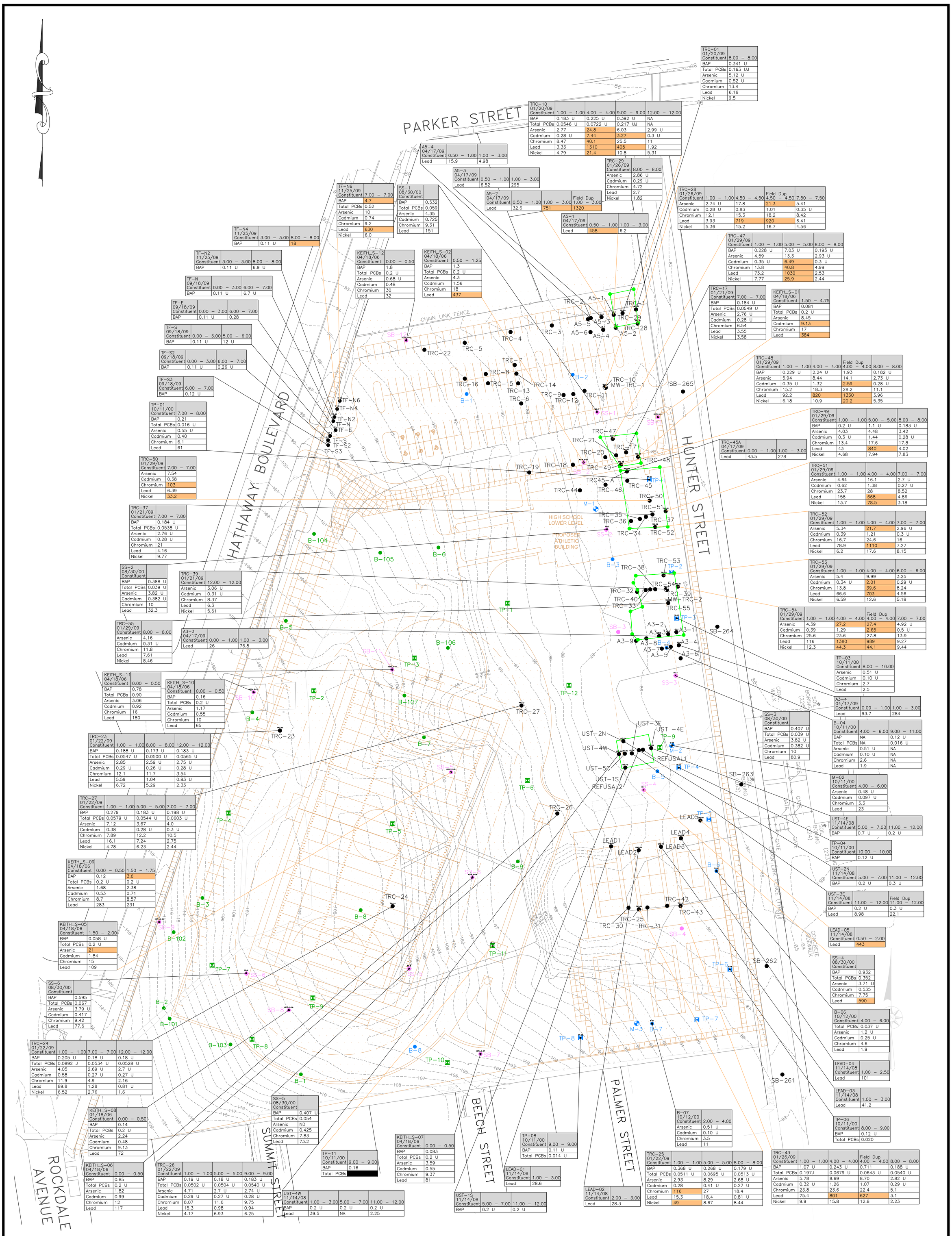
Source: MassGIS/EOEA

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

FIGURE 3

MASSDEP PRIORITY RESOURCES MAP
ANDREA MCCOY FIELD
NEW BEDFORD, MA

0 500 1,000 1,500
Feet



TRC-01 01/20/09 Constituent	8.00 – 8.00
BAP	0.341 U
Total PCBs	0.163 UJ
Arsenic	5.12 U
Cadmium	0.52 U
Chromium	13.4
Lead	6.16
Nickel	9.5

TRC-10 01/20/09 Constituent	1.00 – 1.00	4.00 – 4.00	9.00 – 9.00	12.00 – 12.00
BAP	0.183 U	0.225 U	0.392 U	NA
Total PCBs	0.0546 U	0.0722 U	0.217 UJ	NA
Arsenic	2.77	24.8	6.03	2.99 U
Cadmium	0.28 U	7.44	3.27	0.3 U
Chromium	8.47	40.1	25.5	11
Lead	3.33	1310	405	1.92
Nickel	4.79	21.4	10.8	5.31

A5-4 04/17/09 Constituent	0.50 – 1.00	1.00 – 3.00
Lead	15.9	4.98

A5-3 04/17/09 Constituent	0.50 – 1.00	1.00 – 3.00
Lead	6.52	295

A5-2 04/17/09 Constituent	0.50 – 1.00	1.00 – 3.00	Field Dup 1.00 – 3.00
Lead	32.6	751	1320

A5-1 04/17/09 Constituent	0.50 – 1.00	1.00 – 3.00
Lead	458	6.2

TRC-29 01/26/09 Constituent	8.00 – 8.00
Arsenic	2.86 U
Cadmium	0.29 U
Chromium	4.72
Lead	2.7
Nickel	1.82

TRC-28 01/26/09 Constituent	1.00 – 1.00	4.50 – 4.50	Field Dup 4.50 – 4.50	7.50 – 7.50
Arsenic	2.74 U	17.8	21.3	5.41
Cadmium	0.28 U	0.83	1.01	0.35 U
Chromium	12.1	15.3	18.2	8.42
Lead	3.93	719	920	6.41
Nickel	5.36	15.2	16.7	4.56

TRC-47 01/29/09 Constituent	1.00 – 1.00	5.00 – 5.00	8.00 – 8.00
BAP	0.228 U	7.03 U	0.195 U
Arsenic	4.59	13.3	2.93 U
Cadmium	0.35 U	6.49	0.3 U
Chromium	13.8	40.8	4.99
Lead	73.2	1030	2.53
Nickel	7.77	25.9	2.44

TRC-17 01/21/09 Constituent	7.00 – 7.00
BAP	0.184 U
Total PCBs	0.0549 U
Arsenic	2.76 U
Cadmium	0.28 U
Chromium	6.54
Lead	3.55
Nickel	3.58

KEITH_S-01 04/18/06 Constituent	1.50 – 4.75
BAP	0.081
Total PCBs	0.2 U
Arsenic	8.45
Cadmium	9.13
Chromium	17
Lead	384

TRC-48 01/29/09 Constituent	1.00 – 1.00	4.00 – 4.00	Field Dup 4.00 – 4.00	8.00 – 8.00
BAP	0.229 U	2.24 U	1.93	0.182 U
Arsenic	5.94	8.44	14.1	2.73 U
Cadmium	0.35 U	1.32	2.59	0.28 U
Chromium	15.2	18.3	28.2	11.1
Lead	92.2	820	1330	3.96
Nickel	6.18	10.9	20.2	5.35

TRC-49 01/29/09 Constituent	1.00 – 1.00	5.00 – 5.00	8.00 – 8.00
BAP	0.2 U	1.1 U	0.183 U
Arsenic	4.03	4.48	3.42
Cadmium	0.3 U	1.44	0.28 U
Chromium	13.4	17.6	17.8
Lead	43	840	4.02
Nickel	4.68	7.94	7.83

TRC-45A 04/17/09 Constituent	0.00 – 1.00	1.00 – 3.00
Lead	43.5	278

TRC-51 01/29/09 Constituent	1.00 – 1.00	4.00 – 4.00	7.00 – 7.00
Arsenic	4.64	16.1	2.7 U
Cadmium	0.62	1.38	0.27 U
Chromium	23.7	28	8.52
Lead	158	668	4.86
Nickel	13.7	78.5	3.18

TRC-52 01/29/09 Constituent	1.00 – 1.00	4.00 – 4.00	7.00 – 7.00
Arsenic	5.34	21.7	2.96 U
Cadmium	0.39	1.21	0.3 U
Chromium	16.7	24.6	16
Lead	78.9	1110	7.27
Nickel	6.2	17.6	8.15

TRC-53 01/29/09 Constituent	1.00 – 1.00	4.00 – 4.00	6.00 – 6.00
Arsenic	5.4	9.99	3.25
Cadmium	0.34 U	2.01	0.29 U
Chromium	13.8	39.6	8.24
Lead	66.6	703	4.56
Nickel	6.59	12.6	5.18

TRC-54 01/29/09 Constituent	1.00 – 1.00	4.00 – 4.00	Field Dup 4.00 – 4.00	7.00 – 7.00
Arsenic	4.39	27.2	27.4	4.92 U
Cadmium	0.39	1.29	2.65	0.5 U
Chromium	25.6	23.6	27.8	13.9
Lead	116	1380	989	9.27
Nickel	12.3	44.3	44.1	9.44

TP-03 10/11/00 Constituent	8.00 – 10.00
Arsenic	0.51 U
Cadmium	0.10 U
Chromium	2.7
Lead	2.5

A3-4 04/17/09 Constituent	0.00 – 1.00	1.00 – 3.00
Lead	93.7	284

B-04 10/11/00 Constituent	4.00 – 6.00	9.00 – 11.00
BAP	NA	0.12 U
Total PCBs	NA	0.016 U
Arsenic	0.51 U	NA
Cadmium	0.10 U	NA
Chromium	2.6	NA
Lead	1.9	NA

M-02 10/11/00 Constituent	4.00 – 6.00
Arsenic	0.48 U
Cadmium	0.097 U
Chromium	3.3
Lead	23

UST-4E 11/14/08 Constituent	5.00 – 7.00	11.00 – 12.00
BAP	0.7 U	0.2 U

TP-04 10/11/00 Constituent	10.00 – 10.00
BAP	0.12 U

UST-2N 11/14/08 Constituent	5.00 – 7.00	11.00 – 12.00
BAP	0.2 U	0.3 U

UST-3E 11/14/08 Constituent	11.00 – 12.00	Field Dup 11.00 – 12.00
BAP	0.2 U	0.3 U
Lead	8.98	22.1

LEAD-05 11/14/08 Constituent	0.50 – 2.00
Lead	443

SS-4 08/30/00 Constituent	
BAP	0.932
Total PCBs	0.352
Arsenic	3.71 U
Cadmium	0.535
Chromium	7.75
Lead	590

B-06 10/12/00 Constituent	4.00 – 6.00
Total PCBs	0.037 U
Arsenic	1.2 U
Cadmium	0.25 U
Chromium	4.6
Lead	1.9

LEAD-04 11/14/08 Constituent	1.00 – 2.50
Lead	101

LEAD-03 11/14/08 Constituent	1.00 – 3.00
Lead	41.2

TP-06 10/11/00 Constituent	8.00 – 9.00
BAP	0.12 U
Total PCBs	0.020

B-07 10/12/00 Constituent	2.00 – 4.00
Arsenic	0.51 U
Cadmium	0.10 U
Chromium	3.5
Lead	11

TRC-25 01/22/09 Constituent	1.00 – 1.00	5.00 – 5.00	8.00 – 8.00
BAP	0.368 U	0.268 U	0.179 U
Total PCBs	0.0511 U	0.0695 U	0.0513 U
Arsenic	2.93	8.29	2.68 U
Cadmium	0.28	0.41 U	0.27 U
Chromium	116	27	18.4
Lead	15.3	18.4	0.81 U
Nickel	49	8.67	8.44

TRC-43 01/26/09 Constituent	1.00 – 1.00	4.00 – 4.00	Field Dup 4.00 – 4.00	8.00 – 8.00
BAP	1.07 U	0.243 U	0.711	0.188 U
Total PCBs	0.197J	0.0679 U	0.0643 U	0.0540 U
Arsenic	5.78	8.69	8.70	2.82 U
Cadmium	0.32 U	1.26	1.07	0.29 U
Chromium	23.8	23.6	22.4	5.1
Lead	75.4	801	627	3.1
Nickel	9.9	15.8	12.8	2.23

TF-N6 11/25/09 Constituent	7.00 – 7.00
BAP	4.7
Total PCBs	0.52
Arsenic	10
Cadmium	0.74
Chromium	9.2
Lead	630
Nickel	6.0

SS-1 08/30/00 Constituent	
BAP	0.532
Total PCBs	0.059
Arsenic	4.35
Cadmium	0.725
Chromium	9.31
Lead	151

TF-N4 11/25/09 Constituent	3.00 – 3.00	8.00 – 8.00
BAP	0.11 U	18

TF-N2 11/25/09 Constituent	3.00 – 3.00	8.00 – 8.00
BAP	0.11 U	6.9 U

KEITH_S-12 04/18/06 Constituent	0.00 – 0.50
BAP	1.8
Total PCBs	0.2 U
Arsenic	0.68 U
Cadmium	0.48
Chromium	30
Lead	32

KEITH_S-02 04/18/06 Constituent	0.50 – 1.25
BAP	1.3
Total PCBs	0.2 U
Arsenic	4.3
Cadmium	1.56
Chromium	18
Lead	437

TF-N 09/18/09 Constituent	0.00 – 3.00	6.00 – 7.00
BAP	0.11 U	6.7 U

TF-E 09/18/09 Constituent	0.00 – 3.00	6.00 – 7.00
BAP	0.11 U	0.28

TF-S 09/18/09 Constituent	0.00 – 3.00	5.00 – 6.00
BAP	0.11 U	12 U

TF-S2 09/18/09 Constituent	0.00 – 3.00	6.00 – 7.00
BAP	0.11 U	0.26 U

TF-S3 09/18/09 Constituent	6.00 – 7.00
BAP	0.12 U

TP-01 10/11/00 Constituent	7.00 – 8.00
BAP	0.21
Total PCBs	0.016 U
Arsenic	0.55 U
Cadmium	0.40
Chromium	6.1
Lead	61

TRC-50 01/29/09 Constituent	7.00 – 7.00
Arsenic	7.54
Cadmium	0.38
Chromium	103
Lead	6.39
Nickel	33.2

TRC-37 01/21/09 Constituent	7.00 – 7.00
BAP	0.184 U
Total PCBs	0.0538 U
Arsenic	2.76 U
Cadmium	0.28 U
Chromium	21
Lead	4.16
Nickel	9.77

SS-2 08/30/00 Constituent	
BAP	0.388 U
Total PCBs	0.039 U
Arsenic	3.82 U
Cadmium	0.382 U
Chromium	10
Lead	32.3

TRC-39 01/21/09 Constituent	12.00 – 12.00
Arsenic	3.06 U
Cadmium	0.31 U
Chromium	8.37
Lead	6.3
Nickel	5.61

TRC-55 01/29/09 Constituent	8.00 – 8.00
Arsenic	4.16
Cadmium	0.31 U
Chromium	11.8
Lead	7.61
Nickel	8.46

A3-3 04/17/09 Constituent	0.00 – 1.00	1.00 – 3.00
Lead	26	76.8

KEITH_S-11 04/18/06 Constituent	0.00 – 0.50
BAP	0.78
Total PCBs	0.90
Arsenic	3.06
Cadmium	0.92
Chromium	16
Lead	180

KEITH_S-10 04/18/06 Constituent	0.00 – 0.50
BAP	0.16
Total PCBs	0.2 U
Arsenic	1.17
Cadmium	0.55
Chromium	10
Lead	65

TRC-23 01/22/09 Constituent	1.00 – 1.00	8.00 – 8.00	12.00 – 12.00
BAP	0.188 U	0.173 U	0.183 U
Total PCBs	0.0547 U	0.0500 U	0.0565 U
Arsenic	2.85	2.59 U	2.75 U
Cadmium	0.29 U	0.26 U	0.28 U
Chromium	12.1	11.7	3.54
Lead	5.59	1.04	0.83 U
Nickel	6.72	5.29	2.33

TRC-27 01/22/09 Constituent	1.00 – 1.00	5.00 – 5.00	7.00 – 7.00
BAP	0.279	0.183 U	0.198 U
Total PCBs	0.0579 U	0.0544 U	0.0603 U
Arsenic	7.12	3.67	4.0
Cadmium	0.38	0.28 U	0.3 U
Chromium	7.89	12.2	10.5
Lead	16.1	7.24	2.75
Nickel	4.78	6.23	2.44

KEITH_S-09 04/18/06 Constituent	0.00 – 0.50	1.50 – 1.75
BAP	0.12	3.6
Total PCBs	0.2 U	0.2 U
Arsenic	1.68	2.38
Cadmium	0.53	0.71
Chromium	8.7	8.57
Lead	283	231

KEITH_S-05 04/18/06 Constituent	1.50 – 2.00
BAP	0.058 U
Total PCBs	0.2 U
Arsenic	21
Cadmium	1.84
Chromium	15
Lead	109

SS-6 08/30/00 Constituent	
BAP	0.595
Total PCBs	0.067
Arsenic	3.79 U
Cadmium	0.417
Chromium	9.42
Lead	77.6

TRC-24 01/22/09 Constituent	1.00 – 1.00	7.00 – 7.00	12.00 – 12.00
BAP	0.205 U	0.18 U	0.18 U
Total PCBs	0.0892 J	0.0534 U	0.0528 U
Arsenic	4.05	2.69 U	2.7 U
Cadmium	0.58	0.27 U	0.27 U
Chromium	11.9	4.9	2.16
Lead	89.8	1.28	0.81 U
Nickel	6.52	2.76	1.6

KEITH_S-08 04/18/06 Constituent	0.00 – 0.50
BAP	0.14
Total PCBs	0.2 U
Arsenic	2.24
Cadmium	0.48
Chromium	9.13
Lead	72

KEITH_S-06 04/18/06 Constituent	0.00 – 0.50
BAP	0.85
Total PCBs	0.2 U
Arsenic	1.82
Cadmium	0.99
Chromium	12
Lead	117

TRC-26 01/22/09 Constituent	1.00 – 1.00	5.00 – 5.00	9.00 – 9.00
BAP	0.19 U	0.18 U	0.183 U
Total PCBs	0.0502 U	0.0504 U	0.0540 U
Arsenic	4.71	2.7 U	2.74 U
Cadmium	0.29 U	0.27 U	0.28 U
Chromium	8.07	11.6	9.75
Lead	15.3	0.98	0.94
Nickel	4.17	6.93	6.25

SS-5 08/30/00 Constituent	
BAP	0.407 U
Total PCBs	0.054
Arsenic	ND
Cadmium	0.425
Chromium	7.83
Lead	73.2

TP-11 10/11/00 Constituent	9.00 – 9.00
BAP	0.16
Total PCBs	

KEITH_S-07 04/18/06 Constituent	0.00 – 0.50
BAP	0.083
Total PCBs	0.2 U
Arsenic	3.59
Cadmium	0.55
Chromium	9.37
Lead	81

UST-4W 11/14/08 Constituent	1.00 – 3.00	5.00 – 7.00	11.00 – 12.00
BAP	0.2 U	0.2 U	0.2 U
Lead	39.5	NA	2.25

TP-08 10/11/00 Constituent	9.00 – 9.00
BAP	0.11 U
Total PCBs	0.014 U

LEAD-01 11/14/08 Constituent	1.00 – 3.00
Lead	28.6

UST-1S 11/14/08 Constituent	5.00 – 7.00	11.00 – 12.00
BAP	0.2 U	0.2 U

LEAD-02 11/14/08 Constituent	2.00 – 3.00
Lead	28.3

SS-3 08/30/00 Constituent	
BAP	0.407 U
Total PCBs	0.039 U
Arsenic	3.82 U
Cadmium	0.382 U
Chromium	10
Lead	80.9

LEGEND:

- TRC BORINGS
- TRC MONITORING WELLS
- MILLER ENGINEERING BORINGS
- MILLER ENGINEERING TEST PITS
- MILLER ENGINEERING MONITORING WELLS
- LGCI TEST PITS
- LGCI BORINGS
- BETA BORINGS (APPROX.)
- BETA SURFACE SAMPLES (APPROX.)
- EXTENT OF MAY HOT SPOT EXCAVATIONS
- PRE-CONSTRUCTION CONDITIONS
- ATHLETIC AREAS

APPROXIMATE GRAPHIC SCALE

0' 25' 50' 100'

NOTE:
ALL BORINGS, WELLS, AND SOIL GAS LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE AND ARE BASED ON SITE CONDITIONS AND BEST PROFESSIONAL JUDGEMENT.

Summary of Regulatory Comparison Criteria for Soil (mg/kg)

Contaminant Names	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA
Benzo(a)pyrene (BAP)	2	2	4	4	2	N/A
Total PCBs	2	2	2	2	2	1
Arsenic	20	20	20	20	20	N/A
Cadmium	2	2	30	30	2	N/A
Chromium	30	30	200	200	30	N/A
Lead	300	300	300	300	300	N/A
Nickel	20	20	700	700	20	N/A

NOTES:
MG/KG - MILLIGRAMS PER KILOGRAM (DRY WEIGHT).
ND - NOT DETECTED.
J - ESTIMATED VALUE.
NA - SAMPLE NOT ANALYZED FOR THE LISTED ANALYTE.
N/A - NOT APPLICABLE.
PCBS - POLYCHLORINATED BIPHENYLS.
RCS - REPORTABLE CONCENTRATIONS.
TSCA - TOXIC SUBSTANCES CONTROL ACT.
U - COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
UJ - ESTIMATED NON-DETECT.

VALUES SHOWN IN PEACH BACKGROUND EXCEED ONE OR MORE OF THE LISTED MASSDEP METHOD 1 STANDARDS.

VALUES SHOWN IN YELLOW BACKGROUND EXCEED TSCA BUT ARE LESS THAN THE LISTED MASSDEP METHOD 1 STANDARDS.

SAMPLE LOCATION / SAMPLE DATE	A5-1 04/17/09 Constituent	0.50 – 1.00	1.00 – 3.00	SAMPLE DEPTH RANGE IN FEET
CONTAMINANT NAME /ABBREVIATION	Lead	458	6.2	

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

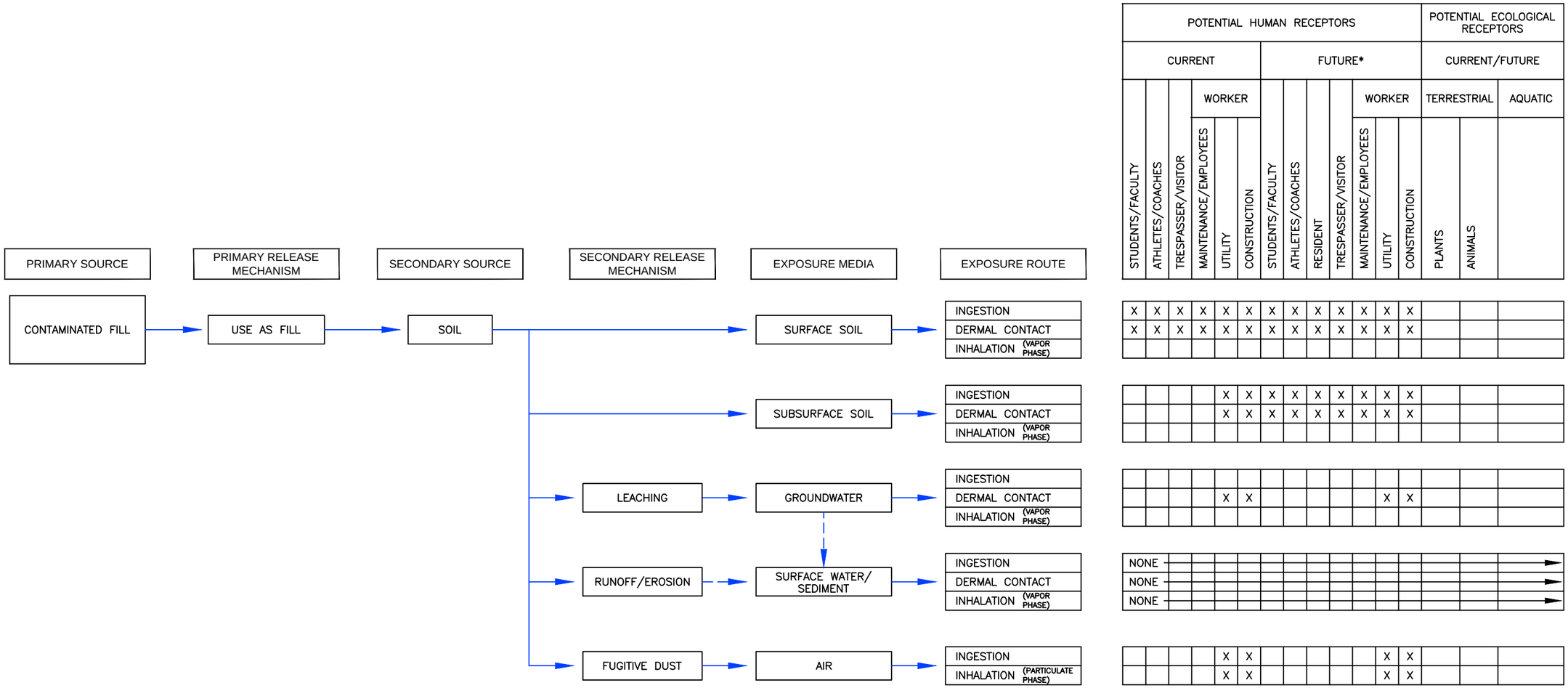
NEW ANDREA McCOY FIELD DATA SUMMARY MAP

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

FIGURE 4

DRAWN BY: PZ
CHECKED BY: DP
DATE: MARCH 2011

FILE: Q:\GEOSCI\GISKEYProjects\NewBedford\McCOY DATA SUMMARY_March2011-2007.DWG



NOTES:

X POTENTIALLY COMPLETE EXPOSURE PATHWAYS IDENTIFIED

CURRENTLY ASSUMED TO BE AN INCOMPLETE PATHWAY

* ASSUMES UNRESTRICTED FUTURE USE

ANDREA McCOY FIELD
NEW BEDFORD, MASSACHUSETTS

SCHEMATIC
CONCEPTUAL SITE MODEL

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

DRAWN BY: HWB
CHECKED BY: DNP
DATE: FEB 2011

FIGURE 5

FILE: T:\E_CAD\115058\NBHS SCHEMATIC SITE MODEL.dwg

APPENDIX A

LIMITATIONS

LIMITATIONS

1. TRC Environmental Corporation's (TRC's) study was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and TRC observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. TRC's findings and conclusions must be considered not as scientific certainties, but rather as our professional opinion concerning the significance of the limited data gathered during the course of the study. No other warranty, express or implied is made. Specifically, TRC does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by TRC during its study. Additionally, TRC makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a Massachusetts Department of Environmental Protection (MassDEP) audit.

2. This study and report have been prepared on behalf of and for the exclusive use of the MassDEP and the City of New Bedford, solely for use in an environmental response actions at the 70 Hathaway Boulevard Site in New Bedford, Massachusetts ("Site") under the Massachusetts Contingency Plan (MCP - 310 CMR 40.0000). This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of TRC.

3. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this report was carried out in accordance with the Terms and Conditions referenced in our proposal.

4. In preparing this report, TRC has relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to TRC at the time of the study. Although there may have been some degree of overlap in the information provided by these various sources, TRC did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this evaluation.

5. In the event that the Client or others authorized to use this report obtain information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to TRC's attention forthwith. TRC will evaluate such information and, on the basis of that evaluation, may modify the conclusions stated in this report.

6. The purpose of this report was to assess the Site with respect to the requirements of the MCP. No specific attempt was made to check on the compliance of present or past owners or operators of the Site with federal, state, or local laws and regulations, environmental or otherwise.

7. The conclusions and recommendations contained in this report are based in part upon the data obtained from a limited number of soil samples obtained from widely spread subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

8. Where quantitative laboratory analyses have been conducted by an outside laboratory, TRC has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data.

9. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As may be indicated within the report, some of these data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by TRC and the conclusions and recommendations presented herein modified accordingly.

10. Chemical analyses have been performed for specific parameters during the course of this Site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present at the Site.

11. TRC's risk evaluation was performed in accordance with generally accepted practices of the Massachusetts Department of Environmental Protection and other consultants undertaking similar studies. The findings of the risk evaluation are dependent on numerous assumptions and uncertainties inherent in the risk assessment process. Sources of uncertainty may include the description of Site conditions and the nature and extent of chemical distribution and the use of toxicity information. Consequently, the findings of the risk assessment are not an absolute characterization of actual risks, but rather serve to highlight potential sources of risk at the Site. Although the range of uncertainties has not been quantified, the use of conservative assumptions and parameters throughout the assessment would be expected to err on the side of protection of human health and the environment.

APPENDIX B

COPY OF RAO TRANSMITTAL FORM

SUBMITTED IN HARD COPY ONLY

APPENDIX C

AUL

NOTICE OF ACTIVITY AND USE LIMITATION
New Andrea McCoy Field
70 Hathaway Boulevard
New Bedford, Massachusetts

RTN 4-15685

Prepared for:

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Prepared by:

TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854
(978) 970-5600

May 2011

TABLE OF CONTENTS

Form 1075

Exhibit A – Legal Description of Property Containing Area Subject to AUL

Exhibit A-1 – Survey Plan Area Subject to the AUL

Exhibit B – Sketch Plan Showing AUL Area

Exhibit C – Activity and Use Limitation Opinion

Exhibit D – Documentation of Signatory Authority

Activity and Use Limitation Transmittal Form BWSC 113A

Notification to Property Owner(s) 310 CMR 40.1074(1)(e)

AUL Notification 30-Day Waiver

BK 10056 PG 197
05/09/11 12:17 DOC. 9796
Bristol Co. S.D.

Form 1075

NOTICE OF ACTIVITY AND USE LIMITATION
M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: Parker Street Waste Site
DEP Release Tracking No.(s): 4-15685

This Notice of Activity and Use Limitation ("Notice") is made as of this 5th day of May, 2011, by City of New Bedford School Department, 133 William Street, New Bedford, Bristol County, Massachusetts, together with his/her/its/their successors and assigns (collectively "Owner").

W I T N E S S E T H:

WHEREAS, the City of New Bedford School Department, is the owner(s) in fee simple of land located at 70 Hathaway Boulevard, in New Bedford, Bristol County, Massachusetts, Map 63 Lot 85 with the buildings and improvements thereon, pursuant to a deed recorded with the Bristol Registry of Deeds in Book 866, Page105;

WHEREAS, said parcel(s) of land, which is more particularly bounded and described in Exhibit A, attached hereto and made a part hereof ("Property") is subject to this Notice of Activity and Use Limitation. The Property is shown on a plan recorded in the Bristol County Registry of Deeds in Plan Book 167, Page 44;

WHEREAS, a portion of the Property ("Portion of the Property") is subject to this Notice of Activity and Use Limitation. The Portion of the Property is more particularly bounded and described in Exhibit A-1, attached hereto and made a part hereof. The Portion of the Property is shown on a plan recorded in the Bristol County Registry of Deeds in Plan Book 167, Page 44; and/or on a sketch plan attached hereto and filed herewith for registration;

WHEREAS, the Portion of the Property comprises part of a disposal site as the result of a release of oil and/or hazardous material. Exhibit B is a sketch plan showing the relationship of the Portion of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site existing within the limits of the Property and to the extent such boundaries have been established. Exhibit B is attached hereto and made a part hereof; and

WHEREAS, response actions have been conducted for the Portion of the Disposal Site in accordance with M.G.L. c. 21E ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and/or hazardous material in soil and/or (b) the restriction of certain activities occurring in, on, through, over or under the Portion of the Property. The basis for such restrictions is set forth in an Activity and Use Limitation Opinion ("AUL Opinion"), dated May 5, 2011, (which is attached hereto as Exhibit C and made a part hereof);

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in said AUL Opinion are as follows:

1. Activities and Uses Consistent with the AUL Opinion. The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Portion of the Property:

(i) Any recreational, public, commercial, industrial, or construction activities and uses that do not cause and/or result in the direct contact with, disturbance of, and/or relocation of the soil/fill located deeper than 3 feet below grade;

(ii) Emergency repair of existing utilities;

(iii) Such other activities and uses not identified in Section 2 below as being Activities and Uses Inconsistent with the AUL; and

(iv) Such other activities or uses which, in the Opinion of a Licensed Site Professional (LSP), licensed by the Commonwealth of Massachusetts Board of Registration of Hazardous Waste Site Cleanup Professionals, shall present no greater risk of harm to health, safety, public welfare or the environment than the activities and uses set forth in this Section.

2. Activities and Uses Inconsistent with the AUL Opinion. Activities and uses which are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented may result in a significant risk of harm to health, safety, public welfare or the environment or in a substantial hazard, are as follows:

(i) Residential use;

(ii) Relocation of any fill/soil from a depth greater than three feet from within the AUL area of the Site to another location without LSP review and approval;

(iii) Gardening of agricultural crops for human consumption using Site soil (does not include enclosed planters, raised beds, or tree vaults filled with pre-characterized soil and separated from underlying Site soil, which may be allowed subject to review and approval by an LSP); and

(iv) Any other private, public, commercial, or industrial activities or uses not permitted by Section 1 of this Notice that result in the direct contact with, or disturbance of, the soil/fill from depths greater than three feet from the AUL area without supervision of an LSP and the Massachusetts Contingency Plan (310 CMR 40.0000) of the MCP.

(v)

3. Obligations and Conditions Set Forth in the AUL Opinion. If applicable, obligations and/or conditions to be undertaken and/or maintained at the Portion of the Property to maintain a condition of No Significant Risk as set forth in the AUL Opinion shall include the following:

(i) A HASP must be prepared by a Certified Industrial Hygienist (CIH) or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity that is likely to disturb fill/soil below three feet within the AUL area. The HASP should specify the chemicals at the Site, the types of media present, the extent of impacts, the potential routes of exposure, the appropriate level of personal protective equipment, the type of monitoring required, worker safety monitoring, and hazard communication. Workers must be informed of the requirements of the HASP, and the plan must be available on-Site throughout the course of the project;

(ii) Excavation/disturbance of fill/soil within the AUL area unless such activity is first appropriately evaluated by an LSP who renders an Opinion that states that such relocation is consistent with maintaining a condition of No Significant Risk;

(iii) No fill/soil is to be relocated from the AUL area to another location (property) without LSP review and approval.

4. Proposed Changes in Activities and Uses. Any proposed changes in activities and uses at the Portion of the Property which may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by an LSP who shall render an Opinion, in accordance with 310 CMR 40.1080 *et seq.*, as to whether the proposed changes will present a significant risk of harm to health, safety, public welfare or the environment. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.

5. Violation of a Response Action Outcome. The activities, uses and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk of harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by an LSP in accordance with 310 CMR 40.1080 *et seq.*, and without additional response actions, if necessary, to achieve or maintain a condition of No Significant Risk or to eliminate substantial hazards.

If the activities, uses, and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by an LSP in accordance with 310 CMR 40.1080 *et seq.*, the owner or operator of the Portion of the Property subject to this Notice at the time that the activities, uses and/or exposures change, shall comply with the requirements set forth in 310 CMR 40.0020.

6. Incorporation Into Deeds, Mortgages, Leases, and Instruments of Transfer. This Notice shall be incorporated either in full or by reference into all future deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed.

Owner hereby authorizes and consents to the filing and recordation and/or registration of this Notice, said Notice to become effective when executed under seal by the undersigned LSP, and recorded and/or registered with the appropriate Registry(ies) of Deeds and/or Land Registration Office(s).

WITNESS the execution hereof under seal this 6 day of May, 2011

Dr. Mary Louise Francis, Ed.D
Superintendant of New Bedford Public Schools
455 County Street
New Bedford, Massachusetts

Hon. Scott W. Lang, Mayor
Chairman, New Bedford School Committee
City of New Bedford

COMMONWEALTH OF MASSACHUSETTS

Bristol, ss 2011

On this 6 day of May, 2011, before me, the undersigned notary public, personally appeared Mary Louise Francis, proved to me through satisfactory evidence of identification, which were License, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose in her duly authorized capacity as Superintendent of Schools for the City of new Bedford

(official signature and seal of notary)

COMMONWEALTH OF MASSACHUSETTS

Bristol, ss 2011

On this 6 day of May, 2011, before me, the undersigned notary public, personally appeared Scott W. Lang, proved to me through satisfactory evidence of identification, which were License, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose in his duly authorized capacity as Mayor of the City of new Bedford

(official signature and seal of notary)

The undersigned LSP hereby certifies that he executed the aforesaid Activity and Use Limitation Opinion attached hereto as Exhibit C and made a part hereof and that in his Opinion this Notice of Activity and Use Limitation is consistent with the terms set forth in said Activity and Use Limitation Opinion.

Date: May 5, 2011

COMMONWEALTH OF MASSACHUSETTS
DAVID M. SULLIVAN No. 1488
REGISTERED LICENSED SITE PROFESSIONAL

David M. Sullivan, LSP
[LSP SEAL]

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss

May 5, 2011

On this 5th day of May, 2011, before me, the undersigned notary public, personally appeared David Sullivan, proved to me through satisfactory evidence of identification, which were drivers license, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

(official signature and seal of notary)

DAVID N. PETERSON
MY COMM. EXPIRES
COMMONWEALTH OF MASSACHUSETTS
NOTARY PUBLIC

Upon recording, return to:

City of New Bedford
133 William Street
New Bedford, MA 02740

EXHIBIT A

Legal Description of Property

Containing Area Subject to AUL

LEGAL DESCRIPTION

AUL Area – Andre McCoy Field

NEW BEDFORD, MASSACHUSETTS

Beginning at a stone bound with drill hole, in the westerly sideline of Hunter Street, said point being the southeasterly corner of Lot 85, Map 63, land of the City of New Bedford, it being the southeasterly corner of the area herein described;

THENCE: S 81° 44' 48" W a distance of 113.95' along the northerly lot line of Lot 95, Map 63 to a point;

THENCE: N 07° 01' 50" W a distance of 345.09' to a point;

THENCE: N 11° 25' 31" W a distance of 401.00' to a point;

THENCE: S 79° 43' 23" W a distance of 193.27' to a point;

THENCE: N 75° 28' 57" W a distance of 78.57' to a point in the easterly sideline of Hathaway Boulevard;

THENCE: N 18° 38' 41" E a distance of 116.1' along the easterly side line of Hathaway Boulevard to a point at the southwesterly corner of Lot 47, Map 63;

THENCE: N 79° 08' 29" E a distance of 218.63' to a point at the corner of Lots 47 and 102, Map 63;

THENCE: N 79° 34' 11" E a distance of 119.28' to a concrete bound with drill hole in the westerly sideline of Hunter Street;

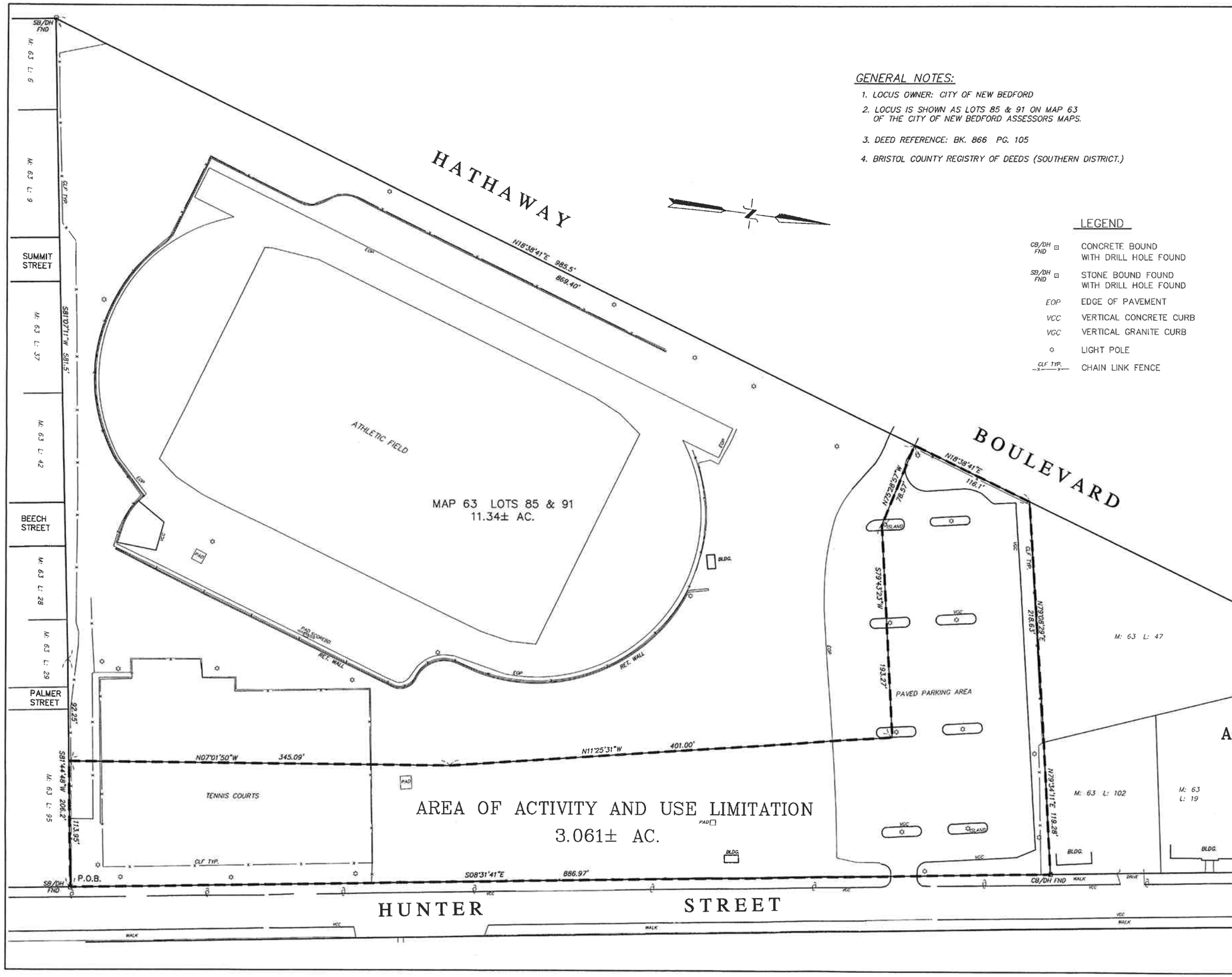
THENCE: S 08° 31' 41" E a distance of 886.97' along the westerly side line of Hunter Street to the point of beginning.

Said AUL area contains 3.061 +/- acres.

Said Area of Activity And Use Limitation is shown on a plan entitled: "Activity And Use Limitation Plan Of Land Located At Andre McCoy Field Hunter Street New Bedford, Massachusetts" dated: March 18, 2011; Prepared by Land Planning, Inc.; to be recorded at the Bristol County Registry of Deeds Southern District.

EXHIBIT A-1

Survey Plan of
Area Subject to AUL



GENERAL NOTES:

1. LOCUS OWNER: CITY OF NEW BEDFORD
2. LOCUS IS SHOWN AS LOTS 85 & 91 ON MAP 63 OF THE CITY OF NEW BEDFORD ASSESSORS MAPS.
3. DEED REFERENCE: BK. 866 PG. 105
4. BRISTOL COUNTY REGISTRY OF DEEDS (SOUTHERN DISTRICT.)

LEGEND

CB/DH FND	CONCRETE BOUND WITH DRILL HOLE FOUND
SB/DH FND	STONE BOUND FOUND WITH DRILL HOLE FOUND
EOP	EDGE OF PAVEMENT
VCC	VERTICAL CONCRETE CURB
VGC	VERTICAL GRANITE CURB
☼	LIGHT POLE
CLF TYP.	CHAIN LINK FENCE

05/09/11 12:17
PLAN RECORDED
BRISTOL S.D.
REGISTRY
in 167-44

FOR REGISTRY OF DEEDS USE ONLY

I CERTIFY THAT THE PREPARATION OF THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

COMMONWEALTH OF MASSACHUSETTS
SHELDON ROBERT PHINNEY
No. 33608
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE: 5/6/11
SHELDON ROBERT PHINNEY P.L.S. #33608

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

ACTIVITY AND USE LIMITATION PLAN OF LAND

LOCATED AT ANDRE MCCOY FIELD
HUNTER STREET
NEW BEDFORD, MASSACUSETTS
OWNED BY
CITY OF NEW BEDFORD

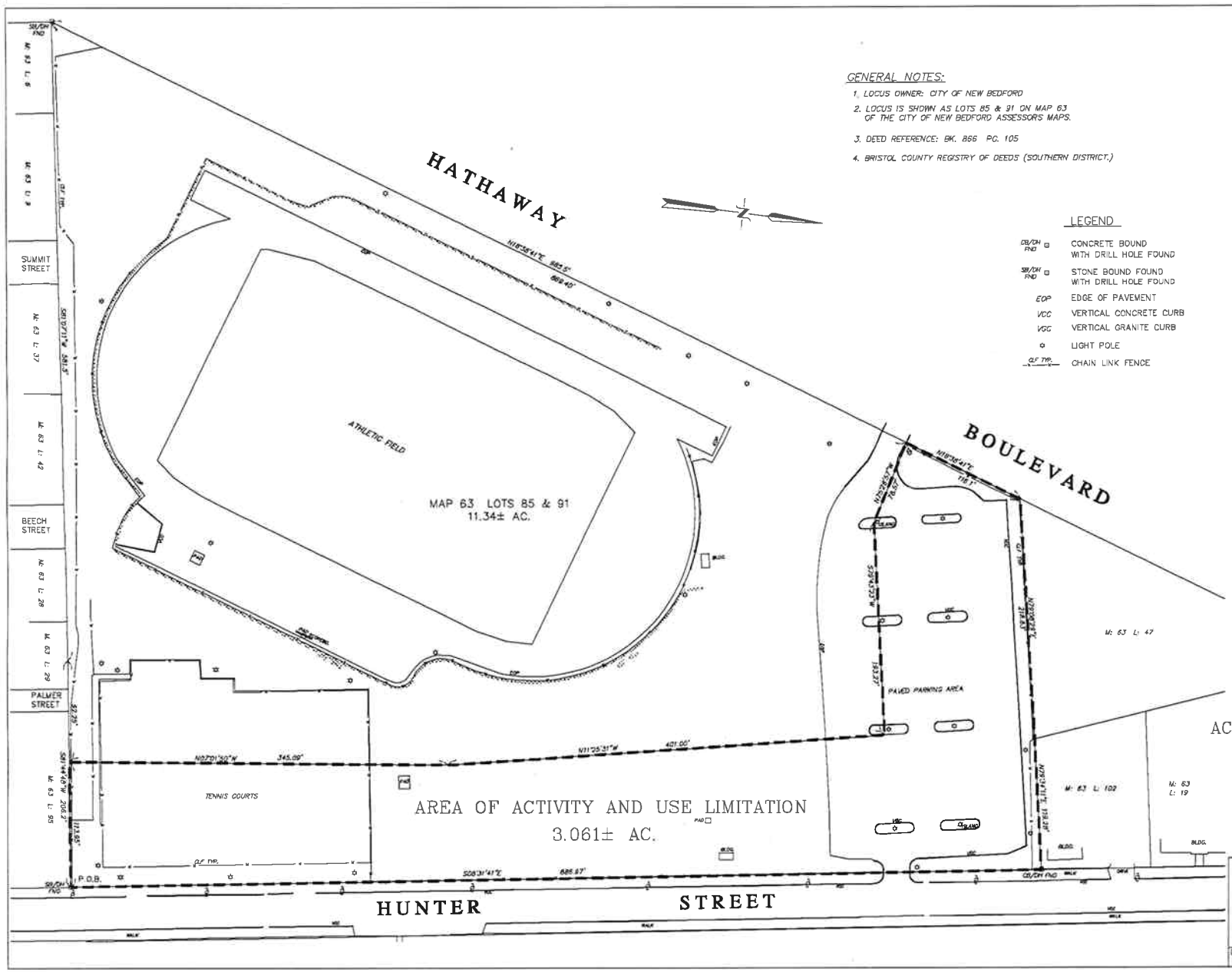
MARCH 18, 2011 SCALE: 60 FEET TO AN INCH

LAND PLANNING, INC.
HANSON: 1115 MAIN STREET 02341 (781) 294-4144
BELLINGHAM: 167 HARTFORD AVE 02019 (508) 966-4130
N. GRAFTON: 214 WORCESTER ST 01536 (508) 839-9526

CALCS	JOB NO.	DWG NAME	SHEET NO.
G.R.RICE	P-2650	P2650AUL-MCCOY3	1 OF 1

EXHIBIT B

Sketch Plan Showing AUL Area



GENERAL NOTES:

1. LOCUS OWNER: CITY OF NEW BEDFORD
2. LOCUS IS SHOWN AS LOTS 85 & 91 ON MAP 63 OF THE CITY OF NEW BEDFORD ASSESSORS MAPS.
3. DEED REFERENCE: BK. 866 PG. 105
4. BRISTOL COUNTY REGISTRY OF DEEDS (SOUTHERN DISTRICT.)

LEGEND

CB/CH FND	CONCRETE BOUND WITH DRILL HOLE FOUND
SB/DH FND	STONE BOUND FOUND WITH DRILL HOLE FOUND
EOP	EDGE OF PAVEMENT
VCC	VERTICAL CONCRETE CURB
VGC	VERTICAL GRANITE CURB
	LIGHT POLE
CLF TYP.	CHAIN LINK FENCE

FOR REGISTRY OF DEEDS USE ONLY

I CERTIFY THAT THE PREPARATION OF THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

DATE:

SHELDON ROBERT PHINNEY P.L.S. #33608

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

ACTIVITY AND USE LIMITATION PLAN OF LAND

LOCATED AT ANDRE MCCOY FIELD
HUNTER STREET
NEW BEDFORD, MASSACUSETTS
OWNED BY
CITY OF NEW BEDFORD

MARCH 18, 2011 SCALE: 60 FEET TO AN INCH

LAND PLANNING, INC.
HANSON: 1115 MAIN STREET 02341 (781) 294-4144
BELLINGHAM: 197 HARTFORD AVE. 02019 (508) 966-4130
N. GRAFTON: 214 WORCESTER ST. 01536 (508) 839-9528

CALCS	JOB NO.	DWG NAME	SHEET NO.
G.R.RICE	P-2650	P2650AUL-MCCOYS	1 OF 1

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EXHIBIT C

Activity and Use Limitation Opinion

Activity and Use Limitation Opinion
New Andrea McCoy Field, RTN 4-15685

Introduction

In accordance with the requirements of 310 CMR 40.1074, this Activity and Use Limitation Opinion has been prepared for the parcel of land owned by the City of New Bedford School Department located at 70 Hathaway Boulevard, Bristol County, New Bedford (the Property). As of the date of this Activity and Use Limitation Opinion, the Property is the location of a City of New Bedford athletic field called the New Andrea McCoy Field (McCoy Field).

This property is owned by:

The City of New Bedford School Department
455 County Street
New Bedford, Massachusetts 02740
Contact: Dr. Mary Louise Francis, Ed.D., Superintendent of Schools
(508) 979-4511

The purpose of this AUL Opinion to support a Partial Response Action Outcome (RAO-P). ***This AUL applies to a portion of the New Andrea McCoy Field.***

Site Property Description

The Site was previously occupied by the former Keith Junior High School (KJHS) and is located within the Site managed under RTN 4-15685. The Site currently contains the New Andrea McCoy Field athletic complex, including a turf field, track, tennis courts, discus ring, landscaped areas and parking lot. The parking lot gently slopes from west to east across the northern portion of the Site. A swale is currently present south of the parking lot to accommodate the future construction of the proposed support building. The southern portion of the Site is comprised of engineered tiers containing the athletic fields. The upper tier, located in the southwestern portion of the Site, contains the turf field, surrounding track and spectator seating. A retaining wall bisects the Site from north to south along the eastern edge of the track. The southeastern portion of the Site (lower tier) contains the tennis courts and discus circle. The fuel oil UST that served the former KJHS building has been removed from the Site under a separate Class A-1 RAO and is not further addressed herein.

The Site Property occupies approximately 11.3 acres within the larger disposal site and is identified by the City of New Bedford Assessor as the following parcels: map 63 block 85. The New Andrea McCoy Field is located at 70 Hathaway Boulevard between Hathaway Boulevard and Hunter Street, and east of the intersection of Hathaway Boulevard and Summit Street in New Bedford, Massachusetts. The Site property is bordered on the western and eastern sides by Hathaway Boulevard and Hunter Street, respectively. Residential properties border both the northern and southern sides, as well as across Hathaway Boulevard to the west.

In general, the limits of the AUL include the northern parking lot, the area between Hunter Street and the portion of the football field/track retaining wall extending between the northern parking

lot and tennis courts (i.e., discus circle and landing zone), and the tennis courts within the southeastern corner of the property. The football field/track and associated spectator area are outside the boundary of the AUL.

Environmental Investigations

In November 2000, Vanasse Hangen Brustlin, Incorporated (VHB) conducted an Immediate Response Action (IRA) in response to a UST on the former KJHS property. The City subsequently submitted a Special Project Application for RTN 4-15685, which included the release reported under RTN 4-15824.

In February 2002 VHB concluded that soil impacts were within background levels typically observed in urban areas at the time of the investigation. An IRA Completion Statement was submitted to MassDEP on February 19, 2002.

In April 2006, BETA Group, Incorporated (BETA) of Norwood, Massachusetts conducted soil sampling at the Site to supplement the February 2002 VHB data. A total of 12 soil borings were advanced and seven surface soil samples were collected (0-0.5 feet below grade). Of the 12 soil borings, only four indicated the presence of fill material. Soil samples were collected and analyzed for polychlorinated biphenyls (PCBs), Resource Conservation and Recovery Act (RCRA) 8 metals and polyaromatic hydrocarbons (PAHs) from soil borings where fill material was encountered. A subset of soil samples were also analyzed for semivolatile organic compounds (SVOCs). Constituents that exceeded MCP Method 1 S-1 soil standards included arsenic, cadmium, lead, and benzo(a)pyrene. BETA concluded that only cadmium exceeded MassDEP MCP background concentrations and that the other metals and PAH concentrations were consistent with background concentrations.

TRC's Licensed Site Professional (LSP) performed a site reconnaissance of the KJHS property in October 2008.

TRC conducted soil testing on November 14, 2008 to evaluate conditions in the vicinity of the former UST (removed in 2008) and also to further evaluate surface soil lead detections identified by VHB. TRC contracted New England Geotech of Jamestown, Rhode Island, to perform drilling activities at the Site under TRC field supervision. The borings were advanced using Geoprobe® direct push methods. The samples were visually examined in the field for evidence of petroleum impacts and field screened using the MassDEP jar headspace methodology and a photoionization detector (PID). Samples were collected from each boring at various depths to delineate the extent of impact.

TRC advanced a total of 11 soil borings to various depths in the area of the former UST and in surface soils near prior lead detections. The 11 soil borings included five advanced in the vicinity of prior lead detections (soil borings LEAD1, LEAD2, LEAD3, LEAD4, and LEAD5). Lead concentrations exceeded MCP Method 1 standards at sample location LEAD-5 only.

TRC conducted a fill line delineation investigation, soil characterization and soil disposal precharacterization sampling between January 20, 2009 and January 26, 2009. A total of 46 soil

borings were installed using direct push drilling methods. Based on laboratory analytical results, an additional nine soil borings were installed between January 26 and January 29, 2009.

Based on preliminary design drawings provided by MVG, the majority of the soil borings were installed in the east and northeast portions of the Site where proposed subsurface construction activities (e.g., pump house, building foundation and detection basin) were being considered. The soil borings were geologically logged with the specific goal of determining the horizontal and vertical extent.

In locations where fill material was encountered, soil borings generally exhibited fine sands overlaying fill material (e.g., ash, coal, brick, and slag) immediately above an organic peat or silt layer. Various sized sands were generally encountered at depth. In those locations in which fill material was not encountered, the subsurface material generally consisted of various sized sands and gravels. All of the soil borings were screened with a PID using the MassDEP jar headspace method. PID screening results were consistently low, ranging from non-detect (i.e., background) to 1.0 parts per million by volume (ppmv).

Soil characterization samples, from select soil borings drilled during the fill delineation investigation, were submitted for laboratory analysis of constituents, consistent with constituents identified in fill material at nearby portions of the PSWS, as well as for precharacterization of the fill material for potential disposal purposes. All of the soil samples were submitted for laboratory analysis of MCP Metals and mercury, PAHs, and PCBs. In general, samples of the fill material were also analyzed for Volatile Organic Compounds (VOCs), SVOCs, Total Petroleum Hydrocarbons (TPH) and Toxicity Characteristic Leaching Procedure (TCLP) Metals to facilitate management.

The laboratory results indicated the exceedance of MCP Method 1 standards for varied total metals. In general the elevated concentrations were associated with the sample collected from the fill material. Concentrations of benzo(a)pyrene were also detected in excess of the MCP Method 1 standards in one sample.

Five additional soil borings were installed in the vicinity of the former KJHS building footprint. These locations were selected by TRC based on the design drawings provided by MVG and for additional analytical data coverage. All of the soil samples were submitted for laboratory analysis of MCP Metals, PAHs and PCBs. Select samples were also analyzed for VOCs, SVOCs, TPH and TCLP Metals to facilitate management. The only constituents detected in excess of MCP Method 1 standards from these five locations were chromium and nickel.

On January 26 and 29, 2009, nine additional borings were advanced utilizing the direct push method in order to delineate locations. All of the soil borings were geologically logged and field screened with a PID. Additional soil samples were submitted for laboratory analysis of total metals, TCLP metals and/or PAHs analysis

Three existing onsite monitoring wells could not be located by TRC prior to initiating investigation activities. Therefore, two permanent monitoring wells were installed. Following installation, TRC developed the two newly installed wells and subsequently conducted

groundwater sampling on January 29, 2009 using the low-flow protocol (low stress). Based on a need to supplement previous groundwater data at the Site and the fact that elevated metals were detected in the soil, groundwater samples were submitted for laboratory analysis of total and dissolved SVOCs and total and dissolved metals. No constituents were detected above MCP GW-3 standards for all parameters.

On April 13, 2009, TRC submitted a RAM Plan to the MassDEP. The RAM Plan outlined risk reduction measures to be undertaken by the City at the McCoy Field property in support of construction. Additional details regarding the RAM-related activities are provided in the following documents and summarized below:

- *Release Abatement Measure Status Report, New Andrea McCoy Field (Former Keith Junior High School) Soil Removal in Support of Risk Reduction and Construction Activity, 70 Hathaway Boulevard, New Bedford, Massachusetts.* August 2009.

- *Release Abatement Measure Status Report, New Andrea McCoy Field (Former Keith Junior High School) Soil Removal in Support of Risk Reduction and Construction Activity, 70 Hathaway Boulevard, New Bedford, Massachusetts.* February 2010.

- *Release Abatement Measure Status Report, New Andrea McCoy Field (Former Keith Junior High School) Soil Removal in Support of Risk Reduction and Construction Activity, 70 Hathaway Boulevard, New Bedford, Massachusetts.* August 2010.

- *Release Abatement Measure Completion Report, New Andrea McCoy Field (Former Keith Junior High School) Soil Removal in Support of Risk Reduction and Construction Activity, 70 Hathaway Boulevard, New Bedford, Massachusetts.* November 2010.

On April 17, 2009, TRC advanced 16 shallow soil borings to confirm the extent around areas targeted for excavation prior to soil excavation activities on the Site. Soil samples were collected from depths of 0-1 feet and 1-3 feet from each boring. Soil samples were submitted for the laboratory analysis of total lead.

On August 26, 2009, TRC was notified that potentially impacted soil was encountered during the installation of a new precast concrete transformer vault in the northwest portion of the Property. The excavation was approximately 10 feet wide by 20 feet long by 8 feet deep in size (approximately 59 cubic yards). All of the excavated material was temporarily stockpiled on and covered with polyethylene sheeting.

On August 27, 2009, TRC personnel made a site visit to observe Site conditions, interview on-site personnel, and collect a composite soil sample for disposal characterization purposes. Although the new transformer vault had already been placed and backfilled, interviews and observation of the stockpiled material indicated the presence of glass, metal, a tar-like material, and ash within a soil matrix.

On September 18, 2009, TRC advanced five soil borings (using Geoprobe® direct push technology in the vicinity of the new transformer vault. A step-out sampling approach was

employed to delineate the lateral and vertical extents of potential petroleum-related soil impacts. The general protocol for the delineation sampling called for the advancement of inner soil borings and associated sample collection approximately five feet north, east and south of the new transformer vault. No borings were advanced west of the new transformer vault due to the presence of utilities.

TRC conducted field screening of soil samples consisting of visual and olfactory observations, jar headspace readings using an appropriately calibrated PID, and professional judgment, consistent with TRC Standard Operating Procedures (SOPs) and general industry practice. TRC employed the MassDEP jar headspace technique to screen for the presence of VOCs in soil. TRC also evaluated and logged the geologic character of the soil samples consistent with the Burmister (1958) method.

Several shallow soil samples (within the 0 to 3-foot soil horizon) were collected for volatile petroleum hydrocarbon (VPH) and extractable petroleum hydrocarbon (EPH) analysis. In addition, a deeper soil sample was collected from each soil boring for VPH and EPH. If field observations (e.g., visual soil inspection, PID screening, etc.) indicated fill material was not present, a sample was collected at the depth corresponding to previously observed fill material. Soil borings were advanced until native overburden was encountered.

None of the VPH results were in excess of MCP Method 1 standards, although only two samples indicated results above the MCP Method 1 standards for C19-C36 Aliphatics and C11-C22 Aromatics.

The southern and eastern lateral extents of impacts were delineated based on the analytical results of the September 18, 2009 investigation. In addition, petroleum-related impacts were limited to a relatively thin zone approximately six to seven feet below grade. However, based on the exceedances of MCP Method 1 soil standards in soil boring TF-N, the northern extent of impacts had not been adequately delineated. Three additional step-out soil borings were advanced on November 25, 2009 using Geoprobe® direct push technology approximately 10, 20 and 30 feet north of the new transformer vault.

The two additional soil borings nearest the new transformer vault were sampled at both shallow (2 to 3 feet below grade) and deeper (7 to 8 feet below grade) intervals for VPH and EPH following the investigative approach employed on September 18, 2009. It should be noted that the grade in this portion of the Site had recently been raised approximately 2 feet in elevation in support of construction activities.

None of the VPH results were in excess of MCP Method 1 soil standards, although three samples exhibited concentrations exceeding the MCP Method 1 soil standards for C19-C36 Aliphatics, C11-C22 Aromatics, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and/or indeno(1,2,3-cd)pyrene. In addition, one sample exhibited a lead concentration in excess of the MCP Method 1 soil standard of 300 mg/kg.

Nature of Site Conditions

Within the AUL limits, the New Andrea McCoy Field Property is underlain by topsoil and anthropogenic fill material that includes sandy material with ash. In places, the ash fill includes broken glass, brick fragments, rubber, clinker, coal, cinders, and/or metallic fragments. Based on soil borings and test pits, the location of the top and bottom of the fill material is varied throughout McCoy Field, ranging from 0.5 to more than 9 feet and 1.25 to 10 feet below ground surface, respectively. In approximately 40 locations, fill was not identified in the soil borings and test pits to a depth of at least 4 feet.

The anthropogenic fill materials are often underlain by native dark brown organic peat material, mixed with silt and clay in places from a former wetland at McCoy Field that predates the presence of anthropogenic fill. Native soils below the organic peat layer include gray fine silty sands with trace gravel and/or medium sand in places.

Groundwater flows predominantly to the southeast at a gradient of about $2x10^{-3}$ ft/ft. The groundwater aquifer is unconfined and is present about 5 feet below ground surface at the time of measurement. The aquifer thickness is not known, but is expected to extend down to the underlying bedrock. This aquifer is not categorized as potentially productive.

Based on literature values, the peat layer is expected to exhibit low hydraulic conductivity, on the range of 10^{-6} to 10^{-3} centimeters per second (cm/sec), while glacial outwash deposits having relatively less fine material could exhibit a hydraulic conductivity range of 10^{-3} to 15 cm/sec. The hydraulic conductivity of the ash fill could be as low as approximately $4.4x10^{-5}$ cm/sec with higher hydraulic conductivities (10^{-1} cm/sec) a possibility depending on the relative amounts of sand and ash. Since the deposition is fairly loose, based on observations made during boring advancement, the hydraulic conductivity of the fill material is estimated to be higher than the underlying peat layer.

The City of New Bedford receives an average of 47.34 inches of precipitation annually (www.fedstats.gov). There are no surface water bodies at McCoy Field.

Environmental site investigations were performed to characterize the nature and extent of impacts at the Site. The results of the environmental site investigations are described in detail in the following reports:

- *Response Action Outcome Statement Report, Former Keith Junior High School UST, 70 Hathaway Boulevard, New Bedford, Massachusetts.* June 2010.

- *Utility-Related Abatement Measure Completion Report, New Andrea McCoy Field (Former Keith Junior High School), 70 Hathaway Boulevard, New Bedford, Massachusetts.* October 2010.

- *Release Abatement Measure Completion Report, New Andrea McCoy Field (Former Keith Junior High School) Soil Removal in Support of Risk Reduction and Construction Activity, 70 Hathaway Boulevard, New Bedford, Massachusetts.* November 2010.

Historical documentation indicates that the Site was historically undeveloped, the eastern portion of which was a wetland. The distribution and occurrence of Site impacts is generally consistent with the distribution and occurrence of anthropogenic fill.

Chemicals detected at concentrations in excess of MCP Method 1 soil standards include PAHs [benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene], metals (antimony, arsenic, barium, cadmium, chromium, lead, and nickel), and EPH (C19-C36 Aliphatics, and C11-C22 Aromatics). A distinct localized area of petroleum-impacted soil was discovered during the installation of a transformer pad/vault in the northwest portion of the Site, along Hathaway Boulevard. All chemicals of concern identified to date tend to exhibit strong partitioning behavior and low solubility and have low likelihood of migrating with groundwater and/or leaching through the soil.

The chemicals detected are also persistent (do not readily degrade) and some have a tendency for bioaccumulation. However, since Site topography is relatively flat in the newly tiered portions, gently sloped in areas such as the parking lot and there are no on-Site surface water bodies, the potential for transport of soil to surface water bodies is not present. These chemicals exhibit low vapor pressures and therefore, are not likely to vaporize.

The results of the analysis of groundwater samples collected by TRC at the Site for total and dissolved SVOCs and MCP Metals, did not indicate the presence of impacts to groundwater at the Site. All concentrations were below the MCP Method 1 GW-3 groundwater standards.

Conceptual Site Model

The area of the Site subject to the AUL is underlain by historic urban fill consisting principally of ash. Historical information, forensic review of historical aerial photographs, evaluation of soil analytical data, and review of soil boring information associated with environmental investigations conducted by TRC and others in the area of New McCoy and Walsh Fields, including the Environmental Protection Agency (EPA), indicate that New McCoy Field is located in a district of widely distributed historic urban fill that is a background condition in this area. A consensus definition of historic urban fill centers on the following characteristics:

- **Historic fill is the sole source of the fill-related release** – Fill-related impacts detected and remedied at New McCoy Field cannot be attributed to any known point source. Historically, New McCoy Field was once an area of open space that was subjected to filling with common urban fill materials (e.g., primarily ash, coal wood, glass, metal, with some debris) and consistent with other descriptions of historic urban fill deposition in Massachusetts such as charred wood and bricks.

- **Wide range of materials** – Typically, historic urban fill contains a wide range of materials, including natural soils, brick, wood, and concrete from demolished buildings, petroleum or pavement residuals, and charred wood and ash. New McCoy Field AUL area contains the wide-spread presence of ash, coal, brick and wood, as well as glass. The ash zone material lacks any odor or staining, exhibits little evidence of metal items, and is devoid of modern materials such

as plastics, indicating that it is associated with deposition predating the 1950s when commercial scale plastics production began, and a period of time when coal was a principle fuel for power generation and heating in the greater New Bedford area.

- **Presence of exempt materials** – As noted in the MCP, concentrations of constituents attributable to coal ash or wood ash associated with fill material are considered background (310 CMR 40.0006) and in addition to coal are exempt from reporting under the MCP (310 CMR 40.0317(9)). The historic fill at New McCoy Field contains an ash zone composed of a white or gray and occasionally black ash material containing combusted coal and wood, uncombusted coal and wood fragments, and occasionally small pieces of porcelain, brick, cinders, glass, or slag (clinkers).

  The pyrogenic/petrogenic PAH ratios of the ash zone material exhibit a non-petroleum origin (for example, phenanthrene/anthracene ratios greater than 10, floranthene/pyrene ratios less than 1), and the PAH chemical signatures (based on benzo(a)anthracene/chrysene, benzo(b)flouranthene/benzo(k)flouranthene, and ideno(1,2,3-cd)pyrene/benzo(ghi)perylene ratios) evidence a mix of origin from wood, coal, and possibly some combustion engine exhaust residues. This composition is consistent with that of an extensively urbanized area, being subject to automotive and industrial air emissions, and deposition from the historical large scale use of coal which was a principle fuel for power generation and heating in the greater New Bedford area.

- **Contaminants are characteristic of historic fill** – Documented discussions between MassDEP and the regulated community, such as the urban fill workgroup meetings held in 2007 and 2008, recognize that historic fill consistently displays OHM, such as polyaromatic hydrocarbons (PAHs), lead, and arsenic, and other metals that are not related to identifiable exempt material or to specific releases. The concentrations of PAHs and metals in New McCoy Field soil/fill documented herein are consistent with widely documented concentrations metals and PAHs in coal and coal-derived fly ash and bottom ash.

As documented herein, New McCoy Field soil impacts are principally associated with lead, arsenic, cadmium, and PAHs. The concentrations of PCBs detected at New McCoy Field ranged from 0.02 mg/kg to 1.174 mg/kg, well below the most stringent MassDEP (2 mg/kg) cleanup standard. The absence of significant levels of PCBs at New McCoy Field, is evidence that the ash fill was placed prior to the commercial use of PCBs. In fact, concentrations ranging from 0.1 mg/kg to 1 mg/kg may be considered background (all but one result is within this range). According to EPA, because of the persistence and pervasiveness of PCBs, PCBs will be present in background samples at many sites. The low concentrations of PCBs detected at New McCoy Field are most likely related to more recent air emissions and atmospheric deposition.

- **Ubiquitous nature** – Fill in an urban landscape is widely present and is characterized by a widespread presence of certain types of impacts.

  Lead has a high frequency of detection in urban fill soils and was detected in 98-percent of the more than 300 samples collected to characterize various urban park sites in Boston. Lead is ubiquitous in urban fill soils due to its natural occurrence and anthropogenic sources, such

as the historical use of leaded gasoline, leaded paint on building construction materials (including steel beams), and its presence in pipes and in solder.

PAHs are ubiquitous in the environment; combustion processes are responsible for the vast majority of the PAHs that enter the environment. Metals and PAHs, as represented by benzo(a)pyrene, are ubiquitous in urban fill soils. Because PAHs are the product of incomplete combustion, they are detected in non-urban soils from fallout from forest fires, and are very prominent in urban soils due to various anthropogenic emission and pavement sources over and above that provided by natural sources. As noted herein, lead and PAHs such as benzo(a)pyrene were widespread at New McCoy Field, suggesting that the ash fill disposed of at the property was of fairly common origin in the area. The presence of fill in neighboring residential lots and beneath the football field constructed during a known timeframe (late 1800s and early 1900s) emphasizes that the fill predates modern (i.e., twentieth century) industrial activities and represents a legacy of wetland filling common during that time period using widely available and inexpensive materials prevalent at that time: ash residues from coal-related power generation and building heating.

The neighboring Walsh Field is also underlain by historically deposited urban fill of similar physical and chemical composition. Boring logs from the Walsh Field document the presence of ash, coal, glass, and metal, which is consistent with New McCoy Field. EPA boring logs from properties bordering the eastern, western and southern flanks for Walsh Field also reveal the presence of ash, coal, and slag ("clinkers"), signaling the presence of historic urban fill. A preliminary review of data from the area also indicates the presence of PAHs and metals at concentrations consistent with historic urban fill deposition.

A Class A-3 RAO has been achieved for the Site. A Permanent Solution has been achieved and the exposure point concentrations of OHM in the environment have been reduced below Method 1 S-1 soil standards for the top three feet of soil. Some residual individual sample concentrations detected by TRC are above MCP published background, defined by 310 CMR 40.0006 of the MCP.

The available soil sampling results described herein document soil removal activities and the presence of ash-bearing fill material in remaining soil/fill. Soil exposure point concentrations (EPCs) show that impacted soil EPCs are below Method 1 S-1 soil standards in the top three feet of soil. The maximum concentration of certain chemicals (certain PAHs and metals) are above the MassDEP Background Concentrations in soil containing coal ash or wood ash (hereinafter "Ash Background") published in the May 2002, Technical Update (MassDEP 2002). However, a comparison of Site data for remaining soils with that utilized by MassDEP for the development of the Ash Background in the Technical Update, supports a conclusion that the remaining soils at the Site are comparable to that of Ash Background. A comparison of the 90th percentile value of Site soil concentrations to Ash Background concentrations (which were based on the 90th percentile value of ash containing soil concentrations in the database utilized by MassDEP for the preparation of the Technical Update) indicates that Site soil concentrations approach or are below Ash Background concentrations for PAHs and metals at the Site, with few exceptions. A comparison of the maximum concentration of PAHs and metals detected at the Site with the maximum concentrations utilized for the Ash Background determination, indicate that Site soil

maximum concentrations approach or are below Ash Background, for all of the PAHs and most of the detected metals. Therefore, additional remedial activity is not warranted and would be substantial and disproportionate to the net gain in risk reduction, especially in a situation where No Significant Risk has been achieved in the top three feet of soil. A Class A-3 RAO is applicable for closeout of RTN 4-15685.

Summary of Remedy

To bring the New McCoy Field remedial activities to closure, the potential risks associated with New McCoy Field soil were mitigated by removing several areas of soil that contributed to Exposure Point Concentrations (EPCs) in excess of the MCP Method 1/Method 2 S-1 standards in the top three feet of soil. After the soil removal, an AUL was developed for implementation on a portion of the property to prevent potential exposure to soils below the top three feet of S-1 compliant soil along the eastern and northern sides of the property. Following soil removal, the excavations were backfilled with clean fill, topped with loam, and re-seeded to re-establish vegetative cover or otherwise restored to their prior use (e.g., base paths, pitchers mounds). Nearly 3,000 cubic yards of impacted soil have been removed as part the Release Abatement Measure (RAM) activities to achieve the Class A-3 closure.

Regardless of the consistency of the Site with an emerging consensus definition of historic urban fill, the history of the Site, and with the database from which the MassDEP coal ash background guidelines were developed, all response actions performed to date have been performed in compliance with MCP, all appropriate notifications have been made to MassDEP, all Imminent Hazards have been eliminated, and all response action have been necessary and appropriate to ensure the protection of human health. Response actions have been conducted to achieve a level of No Significant Risk; the source of impact at the Site, although principally associated with an ash-laden historic urban fill, has been controlled or eliminated; and a Permanent Solution has been achieved with an AUL. The RAO has been achieved without regard to the ash and coal origin of the fill layer and the consistency of analytical results with comparative coal and coal-related ash, and wood-related ash related analytical data.

Reason for Activity and Use Limitation

TRC has performed a Risk Assessment to evaluate the potential risk posed at the New McCoy Field. The Risk Assessment concluded that the Property poses No Significant Risk to health, safety, public welfare, or the environment under current and future unlimited conditions, except in the event of exposure to soil/fill located greater than 3 feet below ground surface in portions of the AUL area. In order to ensure that such exposures do not occur and that a condition of No Significant Risk be maintained at the Site, an AUL is required to manage and control exposure to soil/fill below three feet deep at the Property.

Barriers to Exposure

A portion of the Property is covered by paving, playing court surfaces, and concrete. These impervious surfaces isolate and prevent exposure to the underlying fill, but are not relied upon for the AUL. The majority of the exterior in the AUL area of the facility is landscaped. Soils at McCoy Field that contribute to EPCs in soil greater than MCP Method 1 S-1 standards have been excavated

and removed from the Site; remaining soil EPCs are below MCP Method 1 S-1 standards, except for soil greater than 3 feet in depth in portions of the AUL area.

The current and future potential risks associated with McCoy Field soil were mitigated by removing several areas of soil in support of construction activities and by placing an AUL on the Property to manage and control exposures to soil/fill greater than three feet in depth remaining at the Site.

Activities and Uses Consistent with the AUL Opinion

(i) Any recreational, public, commercial, industrial, or construction activities and uses that do not cause and/or result in the direct contact with, disturbance of, and/or relocation of the soil/fill located deeper than 3 feet below grade;

(ii) Emergency repair of existing utilities;

(iii) Such other activities and uses not identified below as being Activities and Uses Inconsistent with the AUL; and

(iv) Such other activities or uses which, in the Opinion of a Licensed Site Professional (LSP), licensed by the Commonwealth of Massachusetts Board of Registration of Hazardous Waste Site Cleanup Professionals, shall present no greater risk of harm to health, safety, public welfare or the environment than the activities and uses set forth in this Section.

Activities and Uses Inconsistent with the AUL Opinion

(i) Residential use;

(ii) Relocation of any fill/soil from a depth greater than three feet from within the AUL area of the Site to another location without LSP review and approval;

(iii) Gardening of agricultural crops for human consumption using Site soil (does not include enclosed planters, raised beds, or tree vaults filled with pre-characterized soil and separated from underlying Site soil, which may be allowed subject to review and approval by an LSP); and

(iv) Any other private, public, commercial, or industrial activities or uses not permitted by Section 1 of this Notice that result in the direct contact with, or disturbance of, the soil/fill from depths greater than three feet from the AUL area without supervision of an LSP and the Massachusetts Contingency Plan (310 CMR 40.0000) of the MCP.

Obligations and Conditions Set Forth in the AUL Opinion

(i) A HASP must be prepared by a Certified Industrial Hygienist (CIH) or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity that is likely to

disturb fill/soil below three feet within the AUL area. The HASP should specify the chemicals at the Site, the types of media present, the extent of impacts, the potential routes of exposure, the appropriate level of personal protective equipment, the type of monitoring required, worker safety monitoring, and hazard communication. Workers must be informed of the requirements of the HASP, and the plan must be available on-Site throughout the course of the project;

(ii) Excavation/disturbance of fill/soil within the AUL area unless such activity is first appropriately evaluated by an LSP who renders an Opinion that states that such relocation is consistent with maintaining a condition of No Significant Risk;

(iii) No fill/soil is to be relocated from the AUL area to another location (property) without LSP review and approval.

Agreement to Reference Notice of AUL

In accordance with 310 CMR 40.1074(2)(h), the City of New Bedford and its successors and assigns agree to reference the AUL in all deeds, easements, mortgages, leases, licenses, occupancy agreements, or any other agreements which convey an interest in and/or a right to use the portion of the property subject to the AUL.

Procedures for Changing Permitted Site Activities and Uses

In accordance with 310 CMR 40.1074(2)(i), a description of the procedures to be followed to ensure that changes in permitted activities and/or uses meet the objectives of the AUL is provided below:

Any proposed changes in activities and/or uses within the AUL boundaries which may result in higher levels of exposure to oil and/or hazardous material than currently exist will be evaluated by an LSP. The LSP will render an Opinion, consistent with 310 CMR 40.1080, as to whether the proposed changes will result in a significant risk of harm to human health, safety, public welfare, or the environment. Any and all requirements set forth above to meet the objective of the AUL will be satisfied before any proposed changes in activity and/or use are initiated.

Prepared by:

TRC Environmental Corporation

David M. Sullivan, LSP
Licensed Site Professional No. 1488

Date: May 5, 2011

EXHIBIT D

Documentation of Signatory Authority

DOCUMENTATION OF SIGNATORY AUTHORITY

I, Scott W. Lang, do hereby certify that I am the Mayor of the City of New Bedford and the Chairman of the Schoxol Committee for the City of New Bedford, a duly elected School Committee for the City of New Bedford, having a principal office at 455 County Street, New Bedford, Massachusetts, and that I have been duly authorized and am presently serving in that capacity in accordance with the laws of the Commonwealth of Massachusetts and the rules and regulations of the New Bedford School Committee.

I further certify that as of this date, Dr. Mary Louise Francis, Ed.D.,is the current duly appointed Superintendent of Schools of the City of New Bedford and, pursuant to a vote of the School Committee on February 15, 2011, is duly authorized to execute the forgoing document on behalf of the School Committee.

In Witness Whereof, I have hereunto set my hand and seal of the City on this 6 day of May, 2011.

_____

Mayor/Chairman

THE COMMONWEALTH OF MASSACHUSETTS

_____, ss.

On this ___ day of May 2011, before me, the undersigned notary public, personally appeared Scott W. Lang, proved to me through satisfactory evidence of identification, which was photographic identification with signature issued by a federal or state governmental agency, oath or affirmation of a credible witness, personal knowledge of the undersigned, to be the person whose name is signed on the preceding or attached document(s) in my presence.

(Official seal)

Joyce K Morris

Sept. 16, 2016, Notary Public

My commission expires:

Activity and Use Limitation Transmittal Forms

BWSC113 and BWSC113A

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15685

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: **PARKER STREET WASTE SITE**

2. Street Address: **230 HATHAWAY BLVD**

3. City/Town: **NEW BEDFORD** 4. ZIP Code: **02740-0000**

☐ 5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
☐ a. Tier 1A ☐ b. Tier 1B ☐ c. Tier 1C ☐ d. Tier 2

6. If a Tier I Permit has been issued, provide Permit Number: _____

B. THIS FORM IS BEING USED TO: (check one)

☑ 1. Submit a certified copy of a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.

☐ 2. Submit an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** has been filed pursuant to 310 CMR 40.1080.

☐ 3. Submit a certified copy of an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081

☐ 4. Submit a certified copy of a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).

☐ 5. Submit a certified copy of a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).

☐ 6. Submit a certified copy of a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.

☐ 7. Submit a certified copy of an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).

☐ 8. Submit a certified copy of a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).

☐ 9. Submit a certified copy of a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).

☐ 10. Submit a certified copy of a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

11. Provide Additional RTNs:

☐ a. Check here if this AUL Submittal covers additional Release Tracking Numbers (RTNs).

b. Provide the additional Release Tracking Number(s) covered by this AUL Submittal. ☐ - ☐ ☐ - ☐

(All sections of this transmittal form must be filled out unless otherwise noted above. BWSC113A is required for all submittals listed above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number: 4 - 15685

C. AUL INFORMATION:

1. Document (per Section B) Recording and/or Registration Information:
   a. Name of Registry of Deeds and/or Land Registration Office: BRISTOL COUNTY REGISTRY OF DEEDS
   b. Book and Page Number and/or Document Number: BOOK 10056 PAGE 197
   c. Date of recording and/or registration: 5/9/2011 (mm/dd/yyyy)
2. Is the address of the property subject to AUL different from the disposal site address listed above?
   ☐ a. No ☑ b. Yes If yes, then fill out address section below.
3. Street Address: 70 HATHAWAY BOULEVARD
4. City/Town: NEW BEDFORD 5. ZIP Code: 02740-0000

D. PERSON SUBMITTING AUL TRANSMITTAL FORM:

1. Check all that apply: ☑ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions
2. Name of Organization:
3. Contact First Name: SCOTT 4. Last Name: ALFONSE
5. Street: 133 WILLIAM STREET 6. Title: DIRECTOR, ENVIRONMENTAL STEWARDS
7. City/Town: NEW BEDFORD 8. State: MA 9. ZIP Code: 02740-0000
10. Telephone: (508) 979-1487 11. Ext.: 12. FAX:
13. Is the person described in this section the owner of the property?
    ☐ a. Yes ☑ b. No , if checked then Section G must be filled out by at least one owner.
    ☐ c. Check here if providing names and addresses of any additional owners in an attachment.

E. RELATIONSHIP TO DISPOSAL SITE OF PERSON SUBMITTING AUL TRANSMITTAL FORM: (check one)

☑ 1. RP or PRP ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter
☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Submitting AUL Specify:

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BWSC113

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Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15685

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here to certify that notice of the proposed Activity and Use Limitation (AUL) was given to all record-interest holders, if any, in accordance with 310 CMR 40.1074(1)(e), via certified mail.

☑ a. Check here if there were no record interest holders. b. Date of certified mailing: _____ mm/dd/yyyy

☐ c. Check here to certify that names and addresses of all record holders notified is attached.

☑ 2. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a copy of the AUL was/will be provided to the Chief Municipal Officer, the Board of Health, the Zoning Official, and the Building Code Enforcement Official in the community(ies) where the the property subject to such Activity and Use Limitation is located.

☑ 3. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a Legal Notice was/will be published in a newspaper with circulation in the community(ies) where the property subject to the AUL is located.

☑ 4. Check here to certify that within 7 days of publishing a Legal Notice in a newspaper with circulation in the community(ies) where the property subject to the AUL is located, a copy of the notice was/will be submitted to DEP.

☑ 5. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a certified copy of the AUL, including the LSP Opininon containing the material facts, data, and other information, will be submitted to DEP.

☐ 6. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.

☐ 7. If an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

G. CERTIFICATION OF OWNER OF PROPERTY, IF NOT PERSON SUBMITTING AUL TRANSMITTAL FORM:

1. I, MARY LOUISE FRANCIS, attest under the pains and penalties of perjury that I am the owner of said property(ies), subject to the AUL

2. MARY LOUISE FRANCIS (Signature) 3. Date: 5/25/2011 mm/dd/yyyy

4. Name of Organization: NEW BEDFORD PUBLIC SCHOOLS

5. Contact First Name: MARY LOUISE 6. Last Name: FRANCIS

7. Street: 455 COUNTY ROAD 8. Title: SUPERINTENDANT

9. City/Town: NEW BEDFORD 10. State: MA 11. ZIP Code: 02740-0000

12. Telephone: (508) 997-4511 13. Ext.: 14. FAX:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15685

H. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, SCOTT ALFONSE, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Pursuant to 310 CMR 40.1074 (1)(f), I also hereby certify under penalties of perjury, that either I (if person submitting the AUL Transmittal Form is the property owner), or

DR. MARY LOUISE FRANCIS

2. Name of Property Owner

am/is identified on the Notice of AUL as the owner of the property subject to the AUL, owned such property on the date that the AUL was recorded and /or registered

3. By: SCOTT ALFONSE
Signature

4. Title: DIRECTOR, ENVIRONMENTAL

5. For: SCOTT ALFONSE
(Name of person or entity recorded in Section D)

6. Date: 5/23/2011
mm/dd/yyyy

☐ 7. Check here if the address of the person providing certification is different from address recorded in Section D.

8. Street: _____

9. City/Town: _____ 10. State: _____ 11. ZIP Code: _____

12. Telephone: _____ 13. Ext.: _____ 14. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on

5/25/2011 3:47:49 PM

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15685

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: PARKER STREET WASTE SITE
2. Street Address: 230 HATHAWAY BLVD
3. City/Town: NEW BEDFORD
4. ZIP Code: 02740-0000

B. THIS FORM IS BEING USED TO: (check one)

- [x] 1. Provide the LSP Opinion for a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
- [ ] 2. Provide the LSP Opinion for an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement,** pursuant to 310 CMR 40.1080. Include BWSC113A as an attachment to BWSC113. Section A and C do not need to be completed.
- [ ] 3. Provide the LSP Opinion for an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081(4).
- [ ] 4. Provide the LSP Opinion for a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3) .
- [ ] 5. Provide the LSP Opinion for a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).
- [ ] 6. Provide the LSP Opinion for a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.
- [ ] 7. Provide the LSP Opinion for an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).
- [ ] 8. Provide the LSP Opinion for a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).
- [ ] 9. Provide the LSP Opinion for a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).
- [ ] 10. Provide the LSP Opinion for a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

(Unless otherwise noted above, all sections of this form (BWSC113A) must be completely filled out, printed, stamped, signed with black ink and attached as an exhibit to the AUL Document to be recorded and/or registered with the Registry of Deeds and/or Land Registration Office.)

C. AUL INFORMATION:

1. Is the address of the property subject to AUL different from the disposal site address listed above?

   [ ] a. No [x] b. Yes If yes, then fill out address section below.

2. Street Address: 70 HATHAWAY BOULEVARD
3. City/Town: NEW BEDFORD
4. ZIP Code: 02740-0000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15685

D. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a **Notice of Activity and Use Limitation** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1074;

> *if Section B indicates that an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement*** is being submitted, this evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1080;

> *if Section B indicates that an **Amended Notice of Activity and Use Limitation or Amendment to a Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 40.1081;

> *if Section B indicates that a **Termination or a Partial Termination of a Notice of Activity and Use Limitation, or a Release or Partial Release of a Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1083;

> *if Section B indicates that a **Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1071;

> *if Section B indicates that a **Confirmatory Activity and Use Limitation** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1085(4);

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 1488
2. First Name: DAVID M
3. Last Name: SULLIVAN
4. Telephone: (978) 656-3565
5. Ext.:
6. FAX:
7. Signature:
8. Date: mm/dd/yyyy
9. LSP Stamp:

COMMONWEALTH OF MASSACHUSETTS
DAVID M. SULLIVAN No. 1488
REGISTERED LICENSED SITE PROFESSIONAL

Notification to Property Owner(s)

310 CMR 40.1074(1)(e)

May 5, 2011

Certified Mail, Return Receipt Requested

Dr. Mary Louise Francis, Ed.D
New Bedford Public Schools
455 County Street
New Bedford, Massachusetts 02740-5194

Re: Activity and Use Limitation (AUL) Notification
New Andrea McCoy Field
New Bedford, Massachusetts
RTN 4-15685

Dear Dr. Francis:

The purpose of this letter is to inform you that a Notice of Activity and Use Limitation (AUL) will be placed on the property at the New Andrea McCoy Field in New Bedford, Massachusetts (McCoy Field). The McCoy Field property is part of the larger Parker Street Waste Site that had been impacted by oil and hazardous materials as a result of historic soil filling activities. The Massachusetts Contingency Plan (MCP) regulations (310 CMR 40.1074(1)(e)) require notification to all current holders of any record interest in the property subject to the proposed AUL. It is our understanding that other than the City of New Bedford, there are no other record interest holders on the property.

The soil impacts at the McCoy Field Site include PAHs [benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene], metals (antimony, arsenic, barium, cadmium, chromium, lead, and nickel), and EPH (C19-C36 Aliphatics, and C11-C22 Aromatics). Remedial response actions consisting of soil excavations designed to achieve exposure point concentrations (EPCs) below MCP Method 1 soil standards conducted at the Site between Spring 2009 and Fall 2010. Groundwater at the McCoy Field site is unimpacted.

In May 2011, a class A-3 Response Action Outcome (partial) will be submitted on behalf of the City of New Bedford for McCoy Field. The RAO uses an AUL placed on the property to limit exposure to potentially soil/fill within the AUL greater than 3 feet in depth.

TRC has performed a Risk Characterization to evaluate the risk posed by use of the McCoy Field. The Risk Characterization concluded that the Property poses No Significant Risk to health, safety, public welfare, or the environment under current and future unlimited conditions, except for soil/fill located greater than 3 feet below ground surface. Which pose a Significant Risk under future site conditions. In order to ensure that such exposures do not occur and that a condition of No Significant Risk be maintained at the Site, an AUL is required to manage and control exposure to

soil/fill deeper than three feet in the AUL area..

Subsequent to implementation of the AUL at McCoy Field, the following are ***permitted*** activities.

(i) Any recreational, public, commercial, industrial, or construction activities and uses that do not cause and/or result in the direct contact with, disturbance of, and/or relocation of the soil/fill located deeper than 3 feet below grade;

(ii) Emergency repair of existing utilities;

(iii) Such other activities and uses not identified below as being Activities and Uses Inconsistent with the AUL; and

(iv) Such other activities or uses which, in the Opinion of a Licensed Site Professional (LSP), licensed by the Commonwealth of Massachusetts Board of Registration of Hazardous Waste Site Cleanup Professionals, shall present no greater risk of harm to health, safety, public welfare or the environment than the activities and uses set forth in this Section.

Subsequent to implementation of the AUL at McCoy Field, the following are ***prohibited*** activities:

(i) Residential use;

(ii) Relocation of any fill/soil from a depth greater than three feet from within the AUL area of the Site to another location without LSP review and approval;

(iii) Gardening of agricultural crops for human consumption using Site soil (does not include enclosed planters, raised beds, or tree vaults filled with pre-characterized soil and separated from underlying Site soil, which may be allowed subject to review and approval by an LSP); and

(iv) Any other private, public, commercial, or industrial activities or uses not permitted by Section 1 of this Notice that result in the direct contact with, or disturbance of, the soil/fill from depths greater than three feet from the AUL area without supervision of an LSP and the Massachusetts Contingency Plan (310 CMR 40.0000) of the MCP.

The following are the ***obligations and conditions*** required in the AUL:

(i) A HASP must be prepared by a Certified Industrial Hygienist (CIH) or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity that is likely to disturb fill/soil below three feet within the AUL area. The HASP should specify the chemicals at the Site, the types of media present, the extent of impacts, the potential routes of exposure, the appropriate level of personal protective equipment, the type of monitoring required, worker safety monitoring, and hazard

communication. Workers must be informed of the requirements of the HASP, and the plan must be available on-Site throughout the course of the project;

(ii) Excavation/disturbance of fill/soil within the AUL area unless such activity is first appropriately evaluated by an LSP who renders an Opinion that states that such relocation is consistent with maintaining a condition of No Significant Risk;

(iii) No fill/soil is to be relocated from the AUL area to another location (property) without LSP review and approval.

Action Required by the Property Owner

MCP regulations require a 30-day notification of the anticipated AUL restrictions to be sent to the current holders of record interest, prior to recording the AUL restrictions on the deed. However, the MCP also allows a waiver of the 30-day waiting period, providing the party receiving the notification provides a written waiver of the 30-day waiting period. The AUL will be recorded on the property, on or before, May 6, 2011.

Please sign and return the attached AUL Notification Waiver Form to my attention before May 6, 2011. If you have any questions concerning this AUL notification, please contact TRC at (978) 656-3565. Thank you.

Sincerely,

TRC Environmental Corporation

David M. Sullivan, LSP, CHMM
Senior Project Manager

AUL Notification

30-Day Waiver

L2011-032

AUL 30-DAY NOTIFICATION WAIVER

I, Scott W. Lang, acknowledge that on May 6, 2011, the City of New Bedford, Massachusetts received a notice that an Activity and Use Limitation (AUL) will be placed on the following property:

New Andrea McCoy Field
New Bedford, Massachusetts

As allowed by Massachusetts Contingency Plan (MCP) regulations (310 CMR 40.1074(1)(e) and 310 CMR 40.1074(f)), this waiver is granted to TRC Environmental Corporation, by the owner, the City of New Bedford, allowing less than 30 days for the AUL waiting period.

Signature

May 6, 2011
Date

Scott W. Lang
Name (Printed)

Mayor
Title

APPENDIX D

RISK ASSESSMENT SUPPORTING DOCUMENTATION

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	B-4		B-6	B-7		BOH-N	EW Sidewall	M-2	NW Sidewall	Keith S-1	Keith S-2	Keith S-5	Keith S-6	Keith S-7	Keith S-8	Keith S-9		Keith S-10	Keith S-11	Keith S-12	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	TP-1	TP-3	TP-4	TP-6	TP-8
			Sample Depth (ft.):	4-6	9-11	4-6	0-2	2-4	8-10	6-8	4-6	6-8	1.5-4.75	0.5-1.25	1.5-2	0-0.5	0-0.5	0-0.5	0-0.5	1.5-1.75	0-0.5	0-0.5	0-0.5							7-8	8-10	10	8-9	9
			Sample Date:	10/11/2000	10/11/2000	10/12/2000	10/12/2000	10/12/2000	1/25/2008	1/25/2008	10/11/2000	1/25/2008	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000
		S-1/GW-2	S-1/GW-3																															
VOCs (mg/kg)	Acetone	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Amylmethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromochloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromodichloromethane	0.1	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromoform	1	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromomethane	0.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Butanone (MEK)	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	n-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	sec-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Disulfide	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Tetrachloride	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorobenzene	3	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorodibromomethane	0.03	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroform	0.3	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromo-3-Chloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromoethane	0.1	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibromomethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dichlorodifluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethane	5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloroethane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethylene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,2-Dichloroethylene	0.4	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,2-Dichloroethylene	1	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloropropane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,2-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloropropene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,3-Dichloropropene	0.4[4]	9[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,3-Dichloropropene	0.4[4]	9[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diisopropyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dioxane	6	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethyl Benzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Isopropylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	p-Isopropyltoluene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methylene Chloride	20	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MIBK	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	n-Propylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Styrene	4	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1,2-Tetrachloroethane	0.1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2,2-Tetrachloroethane	0.02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethylene	10	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrahydrofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1-Trichloroethane	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2-Trichloroethane	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethylene	2	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichlorofluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3,5-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vinyl Chloride	0.6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	B-4		B-6	B-7		BOH-N	EW Sidewall	M-2	NW Sidewall	Keith S-1	Keith S-2	Keith S-5	Keith S-6	Keith S-7	Keith S-8	Keith S-9		Keith S-10	Keith S-11	Keith S-12	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	TP-1	TP-3	TP-4	TP-6	TP-8
			Sample Depth (ft.):	4-6	9-11	4-6	0-2	2-4	8-10	6-8	4-6	6-8	1.5-4.75	0.5-1.25	1.5-2	0-0.5	0-0.5	0-0.5	0-0.5	1.5-1.75	0-0.5	0-0.5	0-0.5							7-8	8-10	10	8-9	9
			Sample Date:	10/11/2000	10/11/2000	10/12/2000	10/12/2000	10/12/2000	1/25/2008	1/25/2008	10/11/2000	1/25/2008	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000
		S-1/GW-2	S-1/GW-3																															
VPH																																		
(mg/kg)	C5-C8 Aliphatics	100	100	NA	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	NA	2.9 U	3.0 U	2.7 U
	C9-C12 Aliphatics	1,000	1,000	NA	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	NA	2.9 U	3.0 U	2.7 U
	C9-C10 Aromatics	100	100	NA	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	NA	2.9 U	3.0 U	2.7 U
	Benzene	30	30	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
	Ethylbenzene	500	500	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
	MTBE	100	100	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
	Naphthalene	40	500	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
	Toluene	500	500	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
	m/p-Xylene	300	500	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
	o-Xylene	300	500	NA	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30 U	NA	0.29 U	0.30 U	0.27 U
EPH																																		
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	NA	12 U	NA	NA	NA	25 U	**45**	NA	**18**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.3 U	29.1 U	30.5 U	28.4 U	30.5 U	31.3 U	12 U	NA	12 U	12 U	11 U
	C19-C36 Aliphatics	3,000	3,000	NA	12 U	NA	NA	NA	25 U	**33**	NA	14.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.3 U	29.1 U	30.5 U	28.4 U	30.5 U	31.3 U	12 U	NA	12 U	12 U	11 U
	C11-C22 Aromatics	1,000	1,000	NA	12 U	NA	NA	NA	25 U	**29**	NA	14.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.3 U	29.1 U	30.5 U	28.4 U	30.5 U	31.3 U	**20**	NA	12 U	12 U	11 U
SVOCs																																		
(mg/kg)	Acenaphthene	1,000	1,000	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	**0.14**	0.057 U	0.061 U	0.056 U	**0.97**	0.058 U	**0.086**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Acenaphthylene	600	10	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	**0.30**	0.058 U	**0.090**	0.057 U	0.061 U	0.056 U	**1.1**	0.058 U	**0.093**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Acetophenone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aniline	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	**0.40**	0.058 U	**0.37**	0.057 U	**0.061**	0.056 U	**4.2**	0.058 U	**0.23**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Benzo(a)anthracene	7	7	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.091**	**1.2**	0.058 U	**0.94**	**0.080**	**0.15**	**0.12**	**5.6**	**0.14**	**0.76**	**1.5**	**0.552**	0.388 U	0.407 U	**0.983**	0.407 U	**0.645**	**0.25**	NA	0.12 U	0.12 U	0.11 U
	Benzo(a)pyrene	2	2	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.081**	**1.3**	0.058 U	**0.85**	**0.083**	**0.14**	**0.12**	**3.6**	**0.16**	**0.78**	**1.8**	**0.532**	0.388 U	0.407 U	**0.932**	0.407 U	**0.595**	**0.21**	NA	0.12 U	0.12 U	0.11 U
	Benzo(b)fluoranthene	7	7	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.14**	**1.7**	0.058 U	**1.2**	**0.12**	**0.18**	**0.18**	**4.2**	**0.23**	**1.3**	**2.5**	**0.717**	0.388 U	0.407 U	**1.16**	0.407 U	**0.797**	**0.28**	NA	0.12 U	0.12 U	0.11 U
	Benzo(g,h,i)perylene	1,000	1,000	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	**0.39**	0.058 U	**0.31**	0.057 U	**0.075**	**0.058**	**1.3**	**0.080**	**0.25**	0.98 U	0.417 U	0.388 U	0.407 U	**0.43**	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Benzo(k)fluoranthene	70	70	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	**0.53**	0.058 U	**0.46**	0.057 U	**0.063**	0.056 U	**1.4**	**0.068**	**0.37**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethyl)ether	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroisopropyl)ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-ethylhexyl)phthalate	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Bromophenyl phenyl ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chloroaniline	100	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorophenol	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.094**	**1.1**	0.058 U	**0.85**	**0.083**	**0.13**	**0.13**	**5.0**	**0.14**	**0.68**	**1.3**	**0.576**	0.388 U	0.407 U	**0.996**	0.407 U	**0.617**	**0.25**	NA	0.12 U	0.12 U	0.11 U
	Dibenzofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	**0.072**	0.057 U	0.061 U	0.056 U	**0.51**	0.058 U	0.059 U	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	**0.17**	0.058 U	**0.12**	0.057 U	0.061 U	0.056 U	**0.65**	0.058 U	**0.10**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3,3'-Dichlorobenzidine	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dichlorophenol	60	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diethylphthalate	200	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dimethylphenol	100	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dimethylphthalate	50	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrophenol	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrotoluene	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Azobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.20**	**1.8**	0.058 U	**2.0**	**0.17**	**0.34**	**0.26**	**10**	**0.35**	**1.6**	**2.4**	**1.29**	0.388 U	**0.582**	**2.03**	0.407 U	**1.53**	**0.65**	NA	0.12 U	0.12 U	0.11 U
	Fluorene	1,000	1,000	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	**0.19**	0.057 U	0.061 U	0.056 U	**2.0**	0.058 U	**0.088**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Hexachlorobenzene	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachloroethane	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	**0.48**	0.058 U	**0.37**	0.057 U	**0.082**	**0.067**	**1.6**	**0.087**	**0.30**	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Isophorone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-cresol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-cresol(s)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	0.059 U	0.057 U	0.061 U	0.056 U	**0.39**	0.058 U	0.059 U	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Naphthalene	40	500	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	0.056 U	0.057 U	0.058 U	0.059 U	0.057 U	0.061 U	0.056 U	**0.36**	0.058 U	0.059 U	0.98 U	0.417 U	0.388 U	0.407 U	0.379 U	0.407 U	0.417 U	0.12 U	NA	0.12 U	0.12 U	0.11 U
	Nitrobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pentachlorophenol	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.16**	**0.72**	0.058 U	**1.7**	**0.089**	**0.24**	**0.14**	**16**	**0.19**	**1.0**	**1.3**	**1.04**	0.388 U	0.407 U	**1.43**	0.407 U	**1.05**	**0.49**	NA	0.12 U	0.12 U	0.11 U
	Phenol	50	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	0.12 U	NA	NA	NA	NA	NA	NA	NA	**0.18**	**1.9**	0.058 U	**1.8**	**0.16**	**0.28**	**0.27**	**10**	**0.29**	**1.6**	**3.8**	**1.02**	0.388 U	**0.551**	**1.83**	0.407 U	**1.23**	**0.56**	NA	0.12 U	0.12 U	0.11 U
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,5-Trichlorophenol	1,000	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,6-Trichlorophenol	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		B-4		B-6	B-7		BOH-N	EW Sidewall	M-2	NW Sidewall	Keith S-1	Keith S-2	Keith S-5	Keith S-6	Keith S-7	Keith S-8	Keith S-9		Keith S-10	Keith S-11	Keith S-12	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	TP-1	TP-3	TP-4	TP-6	TP-8
		Sample Depth (ft.):		4-6	9-11	4-6	0-2	2-4	8-10	6-8	4-6	6-8	1.5-4.75	0.5-1.25	1.5-2	0-0.5	0-0.5	0-0.5	0-0.5	1.5-1.75	0-0.5	0-0.5	0-0.5							7-8	8-10	10	8-9	9
		Sample Date:		10/11/2000	10/11/2000	10/12/2000	10/12/2000	10/12/2000	1/25/2008	1/25/2008	10/11/2000	1/25/2008	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000	8/30/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000	10/11/2000
		S-1/GW-2	S-1/GW-3																															
PCBs																																		
(mg/kg)	Aroclor 1016	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0417 U	0.0386 U	0.0407 U	0.0378 U	0.0407 U	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U
	Aroclor 1221	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.0833 U	0.0773 U	0.0813 U	0.0755 U	0.0813 U	0.0833 U	0.016 U	NA	NA	0.016 U	0.014 U
	Aroclor 1232	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0417 U	0.0386 U	0.0407 U	0.0378 U	0.0407 U	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U
	Aroclor 1242	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0417 U	0.0386 U	0.0407 U	0.0378 U	0.0407 U	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U
	Aroclor 1248	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0417 U	0.0386 U	0.0407 U	0.0378 U	0.0407 U	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U
	Aroclor 1254	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.90**	0.1 U	0.0417 U	0.0386 U	0.0407 U	**0.352**	0.0407 U	0.0417 U	0.016 U	NA	NA	0.016 U	0.014 U
	Aroclor 1260	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.0593**	0.0386 U	**0.0661**	0.0378 U	**0.0541**	**0.0674**	0.016 U	NA	NA	**0.020**	0.014 U
	Aroclor 1262	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	NA	0.016 U	0.037 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.90**	0.2 U	**0.0593**	0.0386 U	**0.0661**	**0.352**	**0.0541**	**0.0674**	0.016 U	NA	NA	**0.020**	0.014 U
Pesticides																																		
(mg/kg)	Aldrin	0.04	0.04	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	alpha-BHC	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	beta-BHC	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	delta-BHC	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	gamma-BHC (Lindane)	0.7	0.5	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	alpha-Chlordane	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	gamma-Chlordane	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Chlordane	0.7	0.7	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	4,4-DDD	4	4	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	4,4-DDE	3	3	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	4,4-DDT	3	3	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Dieldrin	0.05	0.05	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Endosulfan I	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Endosulfan II	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Endosulfan Sulfate	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Endrin	8	8	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Endrin Aldehyde	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Endrin Ketone	NS	NS	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Heptachlor	0.2	0.2	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Heptachlor Epoxide	0.09	0.09	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Methoxychlor	200	200	0.00076 U	NA	NA	0.00083 U	NA	NA	NA	0.00071 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00081 U	0.00075 U	NA	0.00081 U	NA
	Toxaphene	NS	NS	0.038 U	NA	NA	0.042 U	NA	NA	NA	0.036 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.040 U	0.038 U	NA	0.040 U	NA
Total Petroleum Hydrocarbons																																		
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																																		
(mg/kg)	Antimony	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	0.51 U	NA	1.2 U	NA	0.51 U	NA	NA	0.48 U	NA	**8.45**	**4.3**	**21**	**1.82**	**3.59**	**2.24**	**1.68**	**2.38**	**1.17**	**3.06**	0.68 U	**4.35**	3.82 U	**4.0**	3.71 U	ND	3.79 U	0.55 U	0.51 U	NA	NA	NA
	Barium	1,000	1,000	**7.5**	NA	**14**	NA	**7.7**	NA	NA	**12**	NA	**358**	**262**	**112**	**70**	**20**	**31**	**38**	**90**	**33**	**156**	**55**	**49.1**	**18.9**	**43**	**78**	**29.3**	**51.3**	**28**	**7.8**	NA	NA	NA
	Beryllium	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	0.10 U	NA	0.25 U	NA	0.10 U	NA	NA	0.097 U	NA	**9.13**	**1.56**	**1.84**	**0.99**	**0.55**	**0.48**	**0.53**	**0.71**	**0.55**	**0.92**	**0.48**	**0.725**	0.382 U	**0.536**	**0.535**	**0.425**	**0.417**	**0.40**	0.10 U	NA	NA	NA
	Chromium	30	30	**2.6**	NA	**4.6**	NA	**3.5**	NA	NA	**3.3**	NA	**17**	**18**	**15**	**12**	**9.37**	**9.13**	**8.7**	**8.57**	**10**	**16**	**30**	**9.31**	**10**	**13.2**	**7.75**	**7.83**	**9.42**	**6.1**	**2.7**	NA	NA	NA
	Lead	300	300	**1.9**	NA	**1.9**	NA	**11**	NA	NA	**23**	NA	**384**	**437**	**109**	**117**	**81**	**72**	**283**	**231**	**65**	**180**	**32**	**151**	**32.3**	**80.9**	**590**	**73.2**	**77.6**	**61**	**2.5**	NA	NA	NA
	Nickel	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	**1.6**	NA	**1.9**	NA	**2.5**	NA	NA	**1.8**	NA	**2.92**	0.74 U	**1.23**	**1.36**	**1.25**	**0.80**	**1.37**	**0.87**	0.78 U	**1.38**	**1.03**	8.3 U	7.6 U	7.8 U	7.4 U	ND	7.6 U	**2.2**	**1.6**	NA	NA	NA
	Silver	100	100	0.10 U	NA	0.25 U	NA	0.10 U	NA	NA	0.097 U	NA	0.37 U	0.37 U	**0.38**	0.38 U	0.39 U	0.40 U	0.38 U	0.40 U	0.39 U	0.38	0.34 U	0.417 U	0.382 U	0.388 U	0.371 U	ND	0.379 U	0.11 U	0.10 U	NA	NA	NA
	Thallium	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	0.023 U	NA	0.055 U	NA	**0.037**	NA	NA	**0.086**	NA	**0.109**	**0.278**	0.076 U	**0.124**	**0.084**	**0.105**	**0.134**	**0.149**	**0.099**	**0.195**	0.058 U	**0.127**	0.0775 U	**0.0976**	**0.112**	**0.11**	**0.0967**	**0.086**	0.023 U	NA	NA	NA
Metals,TCLP																																		
(mg/L)	Arsenic	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
VOCs - Volatile Organic Compounds.
(1) - MCP Method 1 standards for C9-C10 aromatics used.
(2) - MCP RC for Dichloropropane used.
(3) - MCP RC for Dichloropropene used.
(4) - MCP Method 1 standards for 1,3-Dichloropropene used.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1: Maximum Concentration of Contaminants for Toxicity Characteristic.

Samples highlighted in red were not used in the risk characterization (excavated, beyond the area of mapped fill or representative of background conditions).

Depth-specific sample used in the risk characterization, even though shallower depths at this location were excavated.

Samples highlighted in yellow are included in the Petroleum Exposure Point. All unhighlighted samples are included in the Fill Exposure Point.

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TP-11	LEAD-1	LEAD-2	LEAD-3	LEAD-4	LEAD-5	UST-1S		UST-2N		UST-3E				UST-4E		UST-4W			UST-5C		TRC-01			TRC-10			
			Sample Depth (ft.):	9	1-3	2-3	1-3	1-2.5	0.5-2	5-7	11-12	5-7	11-12	1-3	5-7	11-12	11-12	5-7	11-12	1-3	5-7	11-12	5-7	11-12	1	5	8	1	4	9	12
			Sample Date:	10/11/2000	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009
		S-1/GW-2	S-1/GW-3														Field Dup														
VOCs																															
(mg/kg)	Acetone	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA	NA	0.12 U	NA	NA
	tert-Amylmethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Bromobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Bromochloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Bromodichloromethane	0.1	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Bromoform	1	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Bromomethane	0.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011 U	NA	NA	0.012 U	NA	NA
	2-Butanone (MEK)	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.041 U	NA	NA	0.047 U	NA	NA
	n-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	sec-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	tert-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	tert-Butylethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	Carbon Disulfide	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.007 U	NA	NA	0.008 U	NA	NA
	Carbon Tetrachloride	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Chlorobenzene	3	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Chlorodibromomethane	0.03	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	Chloroethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021 U	NA	NA	0.024 U	NA	NA
	Chloroform	0.3	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA
	Chloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011 U	NA	NA	0.012 U	NA	NA
	2-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	4-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2-Dibromo-3-Chloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2-Dibromoethane	0.1	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	Dibromomethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Dichlorodifluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021 U	NA	NA	0.024 U	NA	NA
	1,1-Dichloroethane	5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2-Dichloroethane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,1-Dichloroethylene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA
	cis-1,2-Dichloroethylene	0.4	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	trans-1,2-Dichloroethylene	1	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2-Dichloropropane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,3-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	2,2-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,1-Dichloropropene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	cis-1,3-Dichloropropene	0.4[6]	9[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	trans-1,3-Dichloropropene	0.4[6]	9[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	Diethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021 U	NA	NA	0.024 U	NA	NA
	Diisopropyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	1,4-Dioxane	6	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	NA	NA	0.12 U	NA	NA
	Ethyl Benzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021 U	NA	NA	0.024 U	NA	NA
	Isopropylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	p-Isopropyltoluene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA
	Methylene Chloride	20	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021 U	NA	NA	0.024 U	NA	NA
	MIBK	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021 U	NA	NA	0.024 U	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA
	n-Propylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Styrene	4	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,1,1,2-Tetrachloroethane	0.1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,1,2,2-Tetrachloroethane	0.02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA
	Tetrachloroethylene	10	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Tetrahydrofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011 U	NA	NA	0.012 U	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,1,1-Trichloroethane	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,1,2-Trichloroethane	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Trichloroethylene	2	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Trichlorofluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011 U	NA	NA	0.012 U	NA	NA
	1,2,3-Trichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,2,4-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	1,3,5-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA
	Vinyl Chloride	0.6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.011 U	NA	NA	0.012 U	NA	NA
	m + p Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TP-11	LEAD-1	LEAD-2	LEAD-3	LEAD-4	LEAD-5	UST-1S		UST-2N		UST-3E				UST-4E		UST-4W			UST-5C		TRC-01			TRC-10			
			Sample Depth (ft.):	9	1-3	2-3	1-3	1-2.5	0.5-2	5-7	11-12	5-7	11-12	1-3	5-7	11-12	11-12	5-7	11-12	1-3	5-7	11-12	5-7	11-12	1	5	8	1	4	9	12
			Sample Date:	10/11/2000	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009
		S-1/GW-2	S-1/GW-3														Field Dup														
VPH																															
(mg/kg)	C5-C8 Aliphatics	100	100	14 U	NA	NA	NA	NA	NA	NA	NA	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	14 U	NA	NA	NA	NA	NA	NA	NA	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	**35**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	1.4 U	NA	NA	NA	NA	NA	NA	NA	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	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																															
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	**260**	NA	NA	NA	NA	NA	33.3 U	34.1 U	36.4 U	67.5 U	67.6 U	**5,630**	32.9 U	66.5 U	192 U	35.9 U	35.4 U	33.6 U	33.6 U	36.0 U	34.7 U	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	**140**	NA	NA	NA	NA	NA	33.3 U	34.1 U	36.4 U	67.5 U	67.6 U	**1,250**	32.9 U	66.5 U	192 U	35.9 U	35.4 U	33.6 U	33.6 U	36.0 U	34.7 U	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	**440**	NA	NA	NA	NA	NA	33.3 U	34.1 U	36.4 U	67.5 U	67.6 U	**1,740**	32.9 U	66.5 U	192 U	35.9 U	35.4 U	33.6 U	33.6 U	36.0 U	34.7 U	NA	NA	NA	NA	NA	NA	NA
SVOCs																															
(mg/kg)	Acenaphthene	1,000	1,000	**0.31**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	**6.6**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	0.209 U	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Acenaphthylene	600	10	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	**14.8**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	0.209 U	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Acetophenone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Aniline	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Anthracene	1,000	1,000	**0.20**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	**5.3**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**0.583**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Benzo(a)anthracene	7	7	**0.20**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**0.40**	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**1.53**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Benzo(a)pyrene	2	2	**0.16**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**0.40**	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**1.33**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Benzo(b)fluoranthene	7	7	**0.22**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**0.50**	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**1.40**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Benzo(g,h,i)perylene	1,000	1,000	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**0.773**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Benzo(k)fluoranthene	70	70	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**0.583**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Bis(2-chloroethyl)ether	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Bis(2-chloroisopropyl)ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Bis(2-ethylhexyl)phthalate	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	4-Bromophenyl phenyl ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 U	NA	NA	0.90 U	NA	NA
	4-Chloroaniline	100	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 U	NA	NA	0.90 U	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2-Chlorophenol	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Chrysene	70	70	**0.24**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**0.50**	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**1.50**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Dibenzofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	0.209 U	0.341 U	0.183 U	0.225 U	0.392 U	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	3,3'-Dichlorobenzidine	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	0.23 U	NA	NA
	2,4-Dichlorophenol	60	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Diethylphthalate	200	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2,4-Dimethylphenol	100	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Dimethylphthalate	50	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 U	NA	NA	0.90 U	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 U	NA	NA	0.90 U	NA	NA
	2,4-Dinitrophenol	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 U	NA	NA	0.90 U	NA	NA
	2,4-Dinitrotoluene	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Azobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Fluoranthene	1,000	1,000	**0.42**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**1.1**	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**1.99**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Fluorene	1,000	1,000	**0.53**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	**20.6**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	0.209 U	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Hexachlorobenzene	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Hexachloroethane	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	0.11 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**0.914**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Isophorone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	o-cresol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	m & p-cresol(s)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2-Methylnaphthalene	80	300	**0.41**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**0.30**	**65.7**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	0.209 U	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Naphthalene	40	500	**0.43**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	**16.4**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	0.209 U	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Nitrobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84 U	NA	NA	0.90 U	NA	NA
	Pentachlorophenol	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Phenanthrene	500	500	**1.3**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**1.2**	**12.3**	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**2.01**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	Phenol	50	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	Pyrene	1,000	1,000	**0.58**	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.30 U	**1.1**	0.60 U	0.20 U	0.30 U	0.70 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.189 U	**2.49**	0.341 U	0.183 U	0.225 U	0.392 U	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2,4,5-Trichlorophenol	1,000	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA
	2,4,6-Trichlorophenol	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42 U	NA	NA	0.45 U	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TP-11	LEAD-1	LEAD-2	LEAD-3	LEAD-4	LEAD-5	UST-1S		UST-2N		UST-3E				UST-4E		UST-4W			UST-5C		TRC-01			TRC-10			
			Sample Depth (ft.):	9	1-3	2-3	1-3	1-2.5	0.5-2	5-7	11-12	5-7	11-12	1-3	5-7	11-12	11-12	5-7	11-12	1-3	5-7	11-12	5-7	11-12	1	5	8	1	4	9	12
			Sample Date:	10/11/2000	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009
		S-1/GW-2	S-1/GW-3														Field Dup														
PCBs																															
(mg/kg)	Aroclor 1016	2	2	0.015 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	0.0566 U	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1221	2	2	0.015 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	0.0566 U	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1232	2	2	0.015 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	0.0566 U	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1242	2	2	**1.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	0.0566 U	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1248	2	2	0.015 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	0.0566 U	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1254	2	2	0.015 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	**0.0834** *	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1260	2	2	**0.045**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	0.0566 U	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
	Aroclor 1262	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	**1.045**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0520 U	**0.0834**	0.163 U	0.0546 U	0.0722 U	0.217 U	NA
Pesticides																															
(mg/kg)	Aldrin	0.04	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	delta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.7	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlordane	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDD	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDE	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDT	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dieldrin	0.05	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan I	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan II	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Aldehyde	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Ketone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor Epoxide	0.09	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methoxychlor	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toxaphene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																															
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**130**	NA	NA	**30**	NA	NA
Metals, total																															
(mg/kg)	Antimony	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.54 U	**11.8**	8.18 U	4.39 U	5.40 U	9.39 U	4.78 U
	Arsenic	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.84 U	**10.7**	5.12 U	**2.77**	**24.8**	**6.03**	2.99 U
	Barium	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**19.0**	**245**	**28.1**	**22.9**	**485**	**77.3**	**18.4**
	Beryllium	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29 U	0.32 U	0.52 U	0.28 U	0.34 U	0.59 U	**0.37**
	Cadmium	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29 U	**1.46**	0.52 U	0.28 U	**7.44**	**3.27**	0.30 U
	Chromium	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.39**	**18.4**	**13.4**	**8.47**	**40.1**	**25.5**	**11.0**
	Lead	300	300	NA	**28.6**	**28.3**	**41.2**	**101**	**443**	NA	NA	**21.9**	NA	**27.5**	NA	**8.98**	**22.1**	NA	NA	**39.5**	NA	**2.25**	NA	NA	**45.4**	**38,705**	**6.16**	**3.33**	**1,310**	**405**	**1.92**
	Nickel	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.30**	**17.0**	**9.50**	**4.79**	**21.4**	**10.8**	**5.31**
	Selenium	400	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	5.97 U
	Silver	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.57 U	0.63 U	1.03 U	0.55 U	0.68 U	1.18 U	0.60 U
	Thallium	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.41 U	3.76 U	6.14 U	3.29 U	4.05 U	7.05 U	3.58 U
	Vanadium	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**9.93**	**29.4**	**14.2**	**13.1**	**37.7**	**16.1**	**12.3**
	Zinc	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**28.2**	**361**	**45.4**	**15.9**	**617**	**211**	**15.4**
	Mercury	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.015**	**0.119**	0.047 U	0.013 U	**6.99**	0.052 U	0.015 U
Metals,TCLP																															
(mg/L)	Arsenic	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA
	Barium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1.51**	NA	NA	**1.48**	NA	NA
	Cadmium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.011**	NA	NA	**0.057**	NA	NA
	Chromium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA
	Lead	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**9.14**	NA	NA	**4.64**	**0.076**	0.015 U
	Selenium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.050 U	NA	NA	0.050 U	NA	NA
	Silver	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA
	Mercury	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001 U	NA	NA	0.0001 U	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
VOCs - Volatile Organic Compounds.
(1) - MCP Method 1 standards for C9-C10 aromatics used.
(2) - MCP RC for Dichloropropane used.
(3) - MCP RC for Dichloropropene used.
(4) - MCP Method 1 standards for 1,3-Dichloropropene used.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1: Maximum Concentration of Contaminants for Toxicity Characteristic.

Samples highlighted in red were not used in the risk characterization (excavated, beyond the area of mapped fill or representative of background conditions).

Depth-specific sample used in the risk characterization, even though shallower depths at this location were excavated.

Samples highlighted in yellow are included in the Petroleum Exposure Point. All unhighlighted samples are included in the Fill Exposure Point.

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TRC-17				TRC-23			TRC-24			TRC-25			TRC-26		
			Sample Depth (ft.):	1	1	5	7	1	8	12	1	7	12	1	5	8	1	5	9
			Sample Date:	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009
		S-1/GW-2	S-1/GW-3		Field Dup														
VOCs																			
(mg/kg)	Acetone	50	400	NA	NA	0.10 U	NA	NA	0.049 U	NA	NA	0.049 U	NA	NA	NA	NA	NA	NA	NA
	tert-Amylmethyl Ether	NS	NS	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Bromobenzene	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Bromochloromethane	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Bromodichloromethane	0.1	20	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Bromoform	1	200	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Bromomethane	0.5	30	NA	NA	0.010 U	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	2-Butanone (MEK)	50	400	NA	NA	0.040 U	NA	NA	0.020 U	NA	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA
	n-Butylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	sec-Butylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	tert-Butylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	tert-Butylethyl Ether	NS	NS	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Carbon Disulfide	NS	NS	NA	NA	0.006 U	NA	NA	0.003 U	NA	NA	0.003 U	NA	NA	NA	NA	NA	NA	NA
	Carbon Tetrachloride	5	10	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Chlorobenzene	3	100	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Chlorodibromomethane	0.03	20	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Chloroethane	NS	NS	NA	NA	0.020 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	Chloroform	0.3	400	NA	NA	0.004 U	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA
	Chloromethane	NS	NS	NA	NA	0.010 U	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	2-Chlorotoluene	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	4-Chlorotoluene	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromo-3-Chloropropane	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromoethane	0.1	0.7	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Dibromomethane	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Dichlorodifluoromethane	NS	NS	NA	NA	0.020 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethane	5	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloroethane	0.1	10	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethylene	40	500	NA	NA	0.004 U	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA
	cis-1,2-Dichloroethylene	0.4	100	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	trans-1,2-Dichloroethylene	1	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloropropane	0.1	10	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichloropropane	NS	NS	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	2,2-Dichloropropane	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloropropene	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	cis-1,3-Dichloropropene	0.4[4]	9[4]	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	trans-1,3-Dichloropropene	0.4[4]	9[4]	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Diethyl Ether	NS	NS	NA	NA	0.020 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	Diisopropyl Ether	NS	NS	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,4-Dioxane	6	70	NA	NA	0.10 U	NA	NA	0.049 U	NA	NA	0.049 U	NA	NA	NA	NA	NA	NA	NA
	Ethyl Benzene	500	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	2-Hexanone	NS	NS	NA	NA	0.020 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	Isopropylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	p-Isopropyltoluene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	0.004 U	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA
	Methylene Chloride	20	200	NA	NA	0.020 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	MIBK	50	400	NA	NA	0.020 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	0.004 U	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA
	n-Propylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Styrene	4	30	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,1,1,2-Tetrachloroethane	0.1	7	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,1,2,2-Tetrachloroethane	0.02	0.8	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethylene	10	30	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Tetrahydrofuran	NS	NS	NA	NA	0.010 U	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,1,1-Trichloroethane	500	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,1,2-Trichloroethane	2	4	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Trichloroethylene	2	90	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Trichlorofluoromethane	NS	NS	NA	NA	0.010 U	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichloropropane	NS	NS	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trimethylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	1,3,5-Trimethylbenzene	100[3]	100[3]	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
	Vinyl Chloride	0.6	0.6	NA	NA	0.010 U	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	m + p Xylene	300	500	NA	NA	0.004 U	NA	NA	0.002 U	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		TRC-17				TRC-23			TRC-24			TRC-25			TRC-26		
		Sample Depth (ft.):		1	1	5	7	1	8	12	1	7	12	1	5	8	1	5	9
		Sample Date:		1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009
		S-1/GW-2	S-1/GW-3		Field Dup														
VPH																			
(mg/kg)	C5-C8 Aliphatics	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C12 Aliphatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C9-C10 Aromatics	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m/p-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																			
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C11-C22 Aromatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs																			
(mg/kg)	Acenaphthene	1,000	1,000	0.845 U	0.748 U	**1.95**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Acenaphthylene	600	10	0.845 U	0.748 U	0.420 U	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Acetophenone	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Aniline	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	0.845 U	0.748 U	**2.49**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Benzo(a)anthracene	7	7	0.845 U	0.748 U	**4.37**	0.184 U	**0.204**	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Benzo(a)pyrene	2	2	0.845 U	0.748 U	**3.59**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Benzo(b)fluoranthene	7	7	0.845 U	0.748 U	**3.53**	0.184 U	**0.204**	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Benzo(g,h,i)perylene	1,000	1,000	0.845 U	0.748 U	**1.18**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Benzo(k)fluoranthene	70	70	0.845 U	0.748 U	**1.22**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethyl)ether	0.7	0.7	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroisopropyl)ether	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Bis(2-ethylhexyl)phthalate	200	200	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	4-Bromophenyl phenyl ether	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	1.68 U	NA	NA	0.690 U	NA	NA	0.720 U	NA	NA	NA	NA	NA	NA	NA
	4-Chloroaniline	100	3	NA	NA	1.68 U	NA	NA	0.690 U	NA	NA	0.720 U	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2-Chlorophenol	100	100	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	0.845 U	0.748 U	**4.72**	0.184 U	**0.206**	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Dibenzofuran	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	0.845 U	0.748 U	0.420 U	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	1,2-Dichlorobenzene	30	300	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	3,3'-Dichlorobenzidine	1	1	NA	NA	0.420 U	NA	NA	0.180 U	NA	NA	0.180 U	NA	NA	NA	NA	NA	NA	NA
	2,4-Dichlorophenol	60	40	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Diethylphthalate	200	300	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2,4-Dimethylphenol	100	500	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Dimethylphthalate	50	600	NA	NA	1.68 U	NA	NA	0.690 U	NA	NA	0.720 U	NA	NA	NA	NA	NA	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	1.68 U	NA	NA	0.690 U	NA	NA	0.720 U	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrophenol	50	50	NA	NA	1.68 U	NA	NA	0.690 U	NA	NA	0.720 U	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrotoluene	2	2	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Azobenzene	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	0.845 U	0.748 U	**6.65**	0.184 U	**0.375**	0.173 U	0.183 U	**0.421**	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Fluorene	1,000	1,000	0.845 U	0.748 U	**1.40**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Hexachlorobenzene	0.7	0.7	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Hexachloroethane	3	9	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	0.845 U	0.748 U	**1.39**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Isophorone	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	o-cresol	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	m & p-cresol(s)	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	0.845 U	0.748 U	**0.484**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Naphthalene	40	500	0.845 U	0.748 U	**0.564**	0.184 U	0.188 U	0.173 U	0.183 U	0.205 U	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Nitrobenzene	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	1.68 U	NA	NA	0.690 U	NA	NA	0.720 U	NA	NA	NA	NA	NA	NA	NA
	Pentachlorophenol	10	10	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	0.845 U	0.748 U	**14.2**	0.184 U	**0.299**	0.173 U	0.183 U	**0.226**	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	Phenol	50	20	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	0.845 U	0.748 U	**9.66**	0.184 U	**0.293**	0.173 U	0.183 U	**0.290**	0.180 U	0.180 U	0.368 U	0.268 U	0.179 U	0.190 U	0.180 U	0.183 U
	1,2,4-Trichlorobenzene	70	500	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2,4,5-Trichlorophenol	1,000	600	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA
	2,4,6-Trichlorophenol	20	20	NA	NA	0.84 U	NA	NA	0.35 U	NA	NA	0.36 U	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TRC-17				TRC-23			TRC-24			TRC-25			TRC-26		
			Sample Depth (ft.):	1	1	5	7	1	8	12	1	7	12	1	5	8	1	5	9
			Sample Date:	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009	1/22/2009
		S-1/GW-2	S-1/GW-3		Field Dup														
PCBs																			
(mg/kg)	Aroclor 1016	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1221	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1232	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1242	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1248	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1254	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	0.0607 U	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1260	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	**0.0892** *	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
	Aroclor 1262	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	0.0631 U	0.0550 U	0.0569 U	0.0549 U	0.0547 U	0.0500 U	0.0565 U	**0.0892**	0.0534 U	0.0528 U	0.0511 U	0.0695 U	0.0513 U	0.0502 U	0.0504 U	0.0540 U
Pesticides																			
(mg/kg)	Aldrin	0.04	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	delta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.7	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlordane	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDD	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDE	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDT	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dieldrin	0.05	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan I	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan II	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Aldehyde	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Ketone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor Epoxide	0.09	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methoxychlor	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toxaphene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																			
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	NA	NA	**590**	NA	NA	8.7 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA
Metals, total																			
(mg/kg)	Antimony	20	20	5.07 U	4.49 U	5.04 U	4.41 U	4.51 U	4.14 U	4.39 U	4.91 U	4.31 U	4.32 U	4.41 U	6.43 U	4.28 U	4.55 U	4.32 U	4.38 U
	Arsenic	20	20	**3.75**	**3.37**	**12.0**	2.76 U	**2.85**	2.59 U	2.75 U	**4.05**	2.69 U	2.70 U	**2.93**	**8.29**	2.68 U	**4.71**	2.70 U	2.74 U
	Barium	1,000	1,000	**75.7**	**69.3**	**239**	**15.1**	**25.1**	**23.2**	**10.3**	**46.8**	**10.8**	**10.6**	**126**	**35.9**	**21.8**	**18.5**	**30.2**	**36.7**
	Beryllium	100	100	0.32 U	0.29 U	0.32 U	0.28 U	0.29 U	0.26 U	0.28 U	0.31 U	0.27 U	0.27 U	0.28 U	0.41 U	0.27 U	0.29 U	0.27 U	0.28 U
	Cadmium	2	2	0.32 U	0.29 U	**20.3**	0.28 U	0.29 U	0.26 U	0.28 U	**0.58**	0.27 U	0.27 U	**0.28**	0.41 U	0.27 U	0.29 U	0.27 U	0.28 U
	Chromium	30	30	**29.5**	**26.1**	**15.9**	**6.54**	**12.1**	**11.7**	**3.54**	**11.9**	**4.90**	**2.16**	**116**	**27.0**	**18.4**	**8.07**	**11.6**	**9.75**
	Lead	300	300	**31.8**	**26.2**	**1,230**	**3.55**	**5.59**	**1.04**	0.83 U	**89.8**	**1.28**	0.81 U	**15.3**	**18.4**	0.81 U	**15.3**	**0.98**	**0.94**
	Nickel	20	20	**14.4**	**12.3**	**12.7**	**3.58**	**6.72**	**5.29**	**2.33**	**6.52**	**2.76**	**1.60**	**49.0**	**8.67**	**8.44**	**4.17**	**6.93**	**6.25**
	Selenium	400	400	6.34 U	5.61 U	6.30 U	5.51 U	5.64 U	5.18 U	5.49 U	6.13 U	5.38 U	5.40 U	5.51 U	8.03 U	5.35 U	5.68 U	5.40 U	5.47 U
	Silver	100	100	0.64 U	0.57 U	0.63 U	0.56 U	0.57 U	0.52 U	0.55 U	0.62 U	0.54 U	0.54 U	0.56 U	0.81 U	0.54 U	0.57 U	0.54 U	0.55 U
	Thallium	8	8	3.81 U	3.37 U	3.78 U	3.31 U	3.38 U	3.11 U	3.29 U	3.68 U	3.23 U	3.24 U	3.31 U	4.82 U	3.21 U	3.41 U	3.24 U	3.28 U
	Vanadium	600	600	**37.2**	**36.6**	**20.1**	5.51 U	**14.5**	**9.52**	5.49 U	**15.3**	**6.07**	5.40 U	**46.4**	**24.3**	**17.8**	**10.3**	**12.4**	**13.8**
	Zinc	2,500	2,500	**40.6**	**36.4**	**16,800**	**30.8**	**19.6**	**15.3**	**8.32**	**78.6**	**10.6**	**8.87**	**47.4**	**30.9**	**26.4**	**21.7**	**18.2**	**20.5**
	Mercury	20	20	**0.032**	**0.019**	**38.0**	0.012 U	**0.023**	0.017 U	0.012 U	**0.072**	0.018 U	0.012 U	0.012 U	**0.066**	0.019 U	**0.027**	0.017 U	0.015 U
Metals,TCLP																			
(mg/L)	Arsenic	NS	NS	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	NS	NA	NA	**1.11**	NA	NA	**0.13**	NA	NA	**0.110**	NA	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NA	NA	**0.020**	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NA	NA	**11.6**	NA	NA	**0.017**	NA	NA	0.015 U	NA	NA	NA	NA	NA	NA	NA
	Selenium	NS	NS	NA	NA	0.050 U	NA	NA	0.050 U	NA	NA	0.050 U	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	Mercury	NS	NS	NA	NA	0.0001 U	NA	NA	0.00001 U	NA	NA	0.0001 U	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
VOCs - Volatile Organic Compounds.
(1) - MCP Method 1 standards for C9-C10 aromatics used.
(2) - MCP RC for Dichloropropane used.
(3) - MCP RC for Dichloropropene used.
(4) - MCP Method 1 standards for 1,3-Dichloropropene used.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1: Maximum Concentration of Contaminants for Toxicity Characteristic.

Samples highlighted in red were not used in the risk characterization (excavated, beyond the area of mapped fill or representative of background conditions).

Depth-specific sample used in the risk characterization, even though shallower depths at this location were excavated.

Samples highlighted in yellow are included in the Petroleum Exposure Point. All unhighlighted samples are included in the Fill Exposure Point.

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TRC-27			TRC-28				TRC-29			TRC-37			TRC-39					TRC-43				TRC-45A	
			Sample Depth (ft.):	1	5	7	1	4.5	4.5	7.5	1	5	8	1	4-5	7	1	1	4-5	8	12	1	4	4	8	0-1	1-3
			Sample Date:	1/22/2009	1/22/2009	1/22/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3						Field Dup									Field Dup						Field Dup			
VOCs																											
(mg/kg)	Acetone	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.089 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Amylmethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bromobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bromochloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bromodichloromethane	0.1	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bromoform	1	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bromomethane	0.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Butanone (MEK)	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.036 U	NA	NA	NA	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA
	n-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	sec-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Disulfide	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.006 U	NA	NA	NA	0.006 U	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Tetrachloride	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorobenzene	3	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorodibromomethane	0.03	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA	NA	NA	0.019 U	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroform	0.3	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004 U	NA	NA	NA	0.004 U	NA	NA	NA	NA	NA	NA	NA	NA
	Chloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromo-3-Chloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromoethane	0.1	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	Dibromomethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Dichlorodifluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA	NA	NA	0.019 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethane	5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloroethane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethylene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004 U	NA	NA	NA	0.004 U	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,2-Dichloroethylene	0.4	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,2-Dichloroethylene	1	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloropropane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,2-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloropropene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,3-Dichloropropene	0.4[6]	9[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,3-Dichloropropene	0.4[6]	9[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	Diethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA	NA	NA	0.019 U	NA	NA	NA	NA	NA	NA	NA	NA
	Diisopropyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dioxane	6	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.089 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA	NA	NA	NA
	Ethyl Benzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA	NA	NA	0.019 U	NA	NA	NA	NA	NA	NA	NA	NA
	Isopropylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	p-Isopropyltoluene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004 U	NA	NA	NA	0.004 U	NA	NA	NA	NA	NA	NA	NA	NA
	Methylene Chloride	20	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA	NA	NA	0.019 U	NA	NA	NA	NA	NA	NA	NA	NA
	MIBK	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA	NA	NA	0.019 U	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004 U	NA	NA	NA	0.004 U	NA	NA	NA	NA	NA	NA	NA	NA
	n-Propylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Styrene	4	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1,2-Tetrachloroethane	0.1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2,2-Tetrachloroethane	0.02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethylene	10	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrahydrofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1-Trichloroethane	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2-Trichloroethane	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethylene	2	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Trichlorofluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,3,5-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
	Vinyl Chloride	0.6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
	m + p Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004 U	NA	NA	NA	0.004 U	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TRC-27			TRC-28				TRC-29			TRC-37			TRC-39					TRC-43				TRC-45A	
			Sample Depth (ft.):	1	5	7	1	4.5	4.5	7.5	1	5	8	1	4-5	7	1	1	4-5	8	12	1	4	4	8	0-1	1-3
			Sample Date:	1/22/2009	1/22/2009	1/22/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3						Field Dup									Field Dup						Field Dup			
VPH																											
(mg/kg)	C5-C8 Aliphatics	100	100	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																											
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs																											
(mg/kg)	Acenaphthene	1,000	1,000	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Acenaphthylene	600	10	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Acetophenone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Aniline	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Benzo(a)anthracene	7	7	**0.331**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**0.686**	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	**0.805**	0.188 U	NA	NA
	Benzo(a)pyrene	2	2	**0.279**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**0.593**	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	**0.711**	0.188 U	NA	NA
	Benzo(b)fluoranthene	7	7	**0.313**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**0.641**	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	**0.247**	**0.777**	0.188 U	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	**0.225**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	**0.262**	0.188 U	NA	NA
	Benzo(k)fluoranthene	70	70	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	**0.329**	0.188 U	NA	NA
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethyl)ether	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroisopropyl)ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-ethylhexyl)phthalate	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	4-Bromophenyl phenyl ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74 U	NA	NA	NA	0.85 U	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chloroaniline	100	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74 U	NA	NA	NA	0.85 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorophenol	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	**0.358**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**0.775**	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	**0.252**	**0.845**	0.188 U	NA	NA
	Dibenzofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	3,3'-Dichlorobenzidine	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.44 U	NA	NA	NA	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dichlorophenol	60	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Diethylphthalate	200	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dimethylphenol	100	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Dimethylphthalate	50	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74 U	NA	NA	NA	0.85 U	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74 U	NA	NA	NA	0.85 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrophenol	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74 U	NA	NA	NA	0.85 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrotoluene	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Azobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	**0.685**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**1.50**	0.184 U	0.212 U	0.212 U	**0.251**	0.231 U	NA	1.07 U	**0.279**	**0.889**	0.188 U	NA	NA
	Fluorene	1,000	1,000	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Hexachlorobenzene	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachloroethane	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	**0.237**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	**0.342**	0.188 U	NA	NA
	Isophorone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	o-cresol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-cresol(s)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Naphthalene	40	500	0.197 U	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	0.435 U	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	0.239 U	0.188 U	NA	NA
	Nitrobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74 U	NA	NA	NA	0.85 U	NA	NA	NA	NA	NA	NA	NA	NA
	Pentachlorophenol	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	**0.662**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**1.56**	0.184 U	0.212 U	0.212 U	0.213 U	0.231 U	NA	1.07 U	0.243 U	**0.42**	0.188 U	NA	NA
	Phenol	50	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	**0.676**	0.183 U	0.198 U	NA	NA	NA	NA	NA	NA	NA	0.219 U	**1.70**	0.184 U	0.212 U	0.212 U	**0.345**	0.231 U	NA	1.07 U	**0.303**	**0.952**	0.188 U	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,5-Trichlorophenol	1,000	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,6-Trichlorophenol	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TRC-27			TRC-28				TRC-29			TRC-37			TRC-39					TRC-43				TRC-45A	
			Sample Depth (ft.):	1	5	7	1	4.5	4.5	7.5	1	5	8	1	4-5	7	1	1	4-5	8	12	1	4	4	8	0-1	1-3
			Sample Date:	1/22/2009	1/22/2009	1/22/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3						Field Dup									Field Dup						Field Dup			
PCBs																											
(mg/kg)	Aroclor 1016	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1221	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1232	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1242	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1248	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1254	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	**0.197 ***	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1260	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	0.0617 U	0.0679 U	0.0643 U	0.0540 U	NA	NA
	Aroclor 1262	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	0.0579 U	0.0544 U	0.0603 U	NA	NA	NA	NA	NA	NA	NA	0.0646 U	0.0658 U	0.0538 U	0.0639 U	0.0605 U	0.0680 U	0.0670 U	NA	**0.197**	0.0679 U	0.0643 U	0.0540 U	NA	NA
Pesticides																											
(mg/kg)	Aldrin	0.04	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	delta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.7	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlordane	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDD	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDE	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDT	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dieldrin	0.05	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan I	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan II	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Aldehyde	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Ketone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor Epoxide	0.09	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methoxychlor	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toxaphene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																											
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**55**	NA	NA	NA	**75**	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																											
(mg/kg)	Antimony	20	20	4.72 U	4.39 U	4.75 U	4.38 U	5.52 U	5.48 U	5.48 U	4.32 U	**99.1**	4.57 U	5.25 U	5.22 U	4.41 U	5.07 U	5.08 U	5.10 U	5.54 U	4.89 U	5.09 U	5.83 U	5.73 U	4.51 U	NA	NA
	Arsenic	20	20	**7.12**	**3.67**	**4.00**	2.74 U	**17.8**	**21.3**	**5.41**	**3.74**	**39.7**	2.86 U	**5.38**	**19.8**	2.76 U	**7.11**	**5.50**	**17.8**	**9.64**	3.06 U	**5.78**	**8.69**	**8.70**	2.82 U	NA	NA
	Barium	1,000	1,000	**20.1**	**19.7**	**14.6**	**32.3**	**399**	**482**	**37.2**	**86.8**	**842**	**9.89**	**54.8**	**1290**	**29.9**	**128**	**61.2**	**437**	**523**	**21.4**	**60.8**	**326**	**273**	**13.8**	NA	NA
	Beryllium	100	100	0.30 U	0.28 U	0.30 U	0.28 U	**1.10**	**1.05**	0.35 U	0.27 U	**0.71**	0.29 U	0.33 U	**0.67**	0.28 U	0.32 U	0.32 U	**0.85**	**0.52**	**0.38**	0.32 U	**0.90**	**0.70**	0.29 U	NA	NA
	Cadmium	2	2	**0.38**	0.28 U	0.30 U	0.28 U	**0.83**	**1.01**	0.35 U	0.27 U	**7.53**	0.29 U	0.33 U	**3.60**	0.28 U	**0.98**	**0.46**	**3.32**	**1.05**	0.31 U	0.32 U	**1.26**	**1.07**	0.29 U	NA	NA
	Chromium	30	30	**7.89**	**12.2**	**10.5**	**12.1**	**15.3**	**18.2**	**8.42**	**46.3**	**117**	**4.72**	**13.0**	**126**	**21.0**	**15.0**	**13.1**	**27.8**	**17.8**	**8.37**	**23.8**	**23.6**	**22.4**	**5.10**	NA	NA
	Lead	300	300	**16.1**	**7.24**	**2.75**	**3.93**	**719**	**920**	**6.41**	**12.0**	**2,940**	**2.70**	**203**	**4,460**	**4.16**	**127**	**94.2**	**1,020**	**14,500**	**6.30**	**75.4**	**801**	**627**	**3.10**	**43.5**	**278**
	Nickel	20	20	**4.78**	**6.23**	**2.44**	**5.36**	**15.2**	**16.7**	**4.56**	**23.3**	**454**	**1.82**	**4.78**	**15.9**	**9.77**	**9.00**	**6.90**	**72.0**	**10.5**	**5.61**	**9.90**	**15.8**	**12.8**	**2.23**	NA	NA
	Selenium	400	400	5.89 U	5.48 U	5.94 U	5.47 U	6.90 U	6.85 U	6.84 U	5.40 U	7.65 U	5.71 U	6.56 U	6.52 U	5.51 U	6.34 U	6.35 U	6.37 U	6.92 U	6.11 U	6.37 U	7.28 U	7.16 U	5.64 U	NA	NA
	Silver	100	100	0.59 U	0.55 U	0.60 U	0.55 U	0.69 U	0.69 U	0.69 U	0.54 U	0.77 U	0.58 U	0.66 U	0.66 U	0.56 U	0.64 U	0.64 U	**1.44**	0.70 U	0.62 U	0.64 U	0.73 U	0.72 U	0.57 U	NA	NA
	Thallium	8	8	3.54 U	3.29 U	3.56 U	3.28 U	4.14 U	4.11 U	4.11 U	3.24 U	4.59 U	3.43 U	3.94 U	3.92 U	3.31 U	3.81 U	3.81 U	3.83 U	4.15 U	3.67 U	3.82 U	4.37 U	4.30 U	3.38 U	NA	NA
	Vanadium	600	600	**9.13**	**15.8**	**17.8**	**12.6**	**39.0**	**39.6**	**12.4**	**53.7**	**34.6**	5.71 U	**22.8**	**34.8**	**13.0**	**21.4**	**19.0**	**25.9**	**24.8**	**12.5**	**31.7**	**31.9**	**29.8**	5.64 U	NA	NA
	Zinc	2,500	2,500	**19.0**	**21.7**	**11.4**	**16.6**	**266**	**338**	**64.8**	**37.4**	**2,220**	**18.3**	**46.6**	**1,050**	**56.3**	**240**	**104**	**1,140**	**379**	**23.7**	**55.2**	**551**	**415**	**12.4**	NA	NA
	Mercury	20	20	**0.039**	**0.031**	**0.028**	0.011 U	**0.193**	**0.290**	0.012 U	0.016 U	**0.844**	0.012 U	**0.114**	**0.501**	0.017 U	**0.087**	**0.085**	**1.49**	**0.095**	0.020 U	**0.106**	**0.234**	**0.414**	0.013 U	NA	NA
Metals,TCLP																											
(mg/L)	Arsenic	NS	NS	NA	NA	NA	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	NA	NA	0.010 U	NA	0.010 U	NA	NA	NA	NA	NA	NA
	Barium	NS	NS	NA	NA	NA	**0.230**	**1.07**	**1.18**	**0.170**	**0.290**	**1.34**	**0.12**	NA	**2.46**	NA	NA	NA	**1.61**	NA	**0.18**	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.023**	0.005 U	NA	**0.100**	NA	NA	NA	**0.025**	NA	0.005 U	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NA	NA	NA	**0.050**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	NA	NA	0.010 U	NA	0.010 U	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NA	NA	NA	0.015 U	**0.195**	**0.299**	0.015 U	0.015 U	**1.00**	0.015 U	NA	**84.4**	NA	NA	NA	**3.06**	**1.74**	0.015 U	NA	NA	NA	NA	NA	NA
	Selenium	NS	NS	NA	NA	NA	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	NA	0.050 U	NA	NA	NA	0.050 U	NA	0.050 U	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	NA	NA	NA	0.005 U	NA	0.005 U	NA	NA	NA	NA	NA	NA
	Mercury	NS	NS	NA	NA	NA	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	NA	0.0001 U	NA	NA	NA	0.0001 U	NA	0.0001 U	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
VOCs - Volatile Organic Compounds.
(1) - MCP Method 1 standards for C9-C10 aromatics used.
(2) - MCP RC for Dichloropropane used.
(3) - MCP RC for Dichloropropene used.
(4) - MCP Method 1 standards for 1,3-Dichloropropene used.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1: Maximum Concentration of Contaminants for Toxicity Characteristic.

Samples highlighted in red were not used in the risk characterization (excavated, beyond the area of mapped fill or representative of background conditions).

Depth-specific sample used in the risk characterization, even though shallower depths at this location were excavated.

Samples highlighted in yellow are included in the Petroleum Exposure Point. All unhighlighted samples are included in the Fill Exposure Point.

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		TRC-47			TRC-48				TRC-49			TRC-50			TRC-51			TRC-52			TRC-53			TRC-54				TRC-55			A3-1	
		Sample Depth (ft.):		1	5	8	1	4	4	8	1	5	8	1	4	7	1	4	7	1	4	7	1	4	6	1	4	4	7	1	3.5	8	0-1	1-3
		Sample Date:		1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3						Field Dup																			Field Dup						
VOCs (mg/kg)	Acetone	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Amylmethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromochloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromodichloromethane	0.1	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromoform	1	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromomethane	0.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Butanone (MEK)	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	n-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	sec-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Disulfide	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Tetrachloride	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorobenzene	3	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorodibromomethane	0.03	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroform	0.3	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromo-3-Chloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromoethane	0.1	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibromomethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dichlorodifluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethane	5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloroethane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethylene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,2-Dichloroethylene	0.4	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,2-Dichloroethylene	1	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloropropane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,2-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloropropene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,3-Dichloropropene	0.4[4]	9[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,3-Dichloropropene	0.4[4]	9[4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diisopropyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dioxane	6	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethyl Benzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Isopropylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	p-Isopropyltoluene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methylene Chloride	20	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MIBK	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	n-Propylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Styrene	4	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1,2-Tetrachloroethane	0.1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2,2-Tetrachloroethane	0.02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethylene	10	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrahydrofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1-Trichloroethane	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2-Trichloroethane	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethylene	2	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichlorofluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3,5-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vinyl Chloride	0.6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		TRC-47			TRC-48				TRC-49			TRC-50			TRC-51			TRC-52			TRC-53			TRC-54				TRC-55			A3-1	
		Sample Depth (ft.):		1	5	8	1	4	4	8	1	5	8	1	4	7	1	4	7	1	4	7	1	4	6	1	4	4	7	1	3.5	8	0-1	1-3
		Sample Date:		1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3						Field Dup																			Field Dup						
VPH																																		
(mg/kg)	C5-C8 Aliphatics	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethylbenzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPH																																		
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	C19-C36 Aliphatics	3,000	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs																																		
(mg/kg)	Acenaphthene	1,000	1,000	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acetophenone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aniline	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.10**	0.182 U	0.200 U	1.10 U	0.183 U	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.93**	0.182 U	0.200 U	1.10 U	0.183 U	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.48**	0.182 U	0.200 U	**1.11**	0.183 U	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.22**	0.182 U	0.200 U	1.10 U	0.183 U	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.01**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethyl)ether	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroisopropyl)ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-ethylhexyl)phthalate	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Bromophenyl phenyl ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chloroaniline	100	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorophenol	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.29**	0.182 U	0.200 U	**1.18**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3,3'-Dichlorobenzidine	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dichlorophenol	60	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diethylphthalate	200	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dimethylphenol	100	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dimethylphthalate	50	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrophenol	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrotoluene	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Azobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	**0.287**	7.03 U	0.195 U	0.229 U	2.24 U	**5.24**	0.182 U	0.200 U	**2.00**	0.183 U	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobenzene	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachloroethane	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**1.74**	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Isophorone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-cresol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-cresol(s)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	0.482 U	0.182 U	0.200 U	1.10 U	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nitrobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pentachlorophenol	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**2.19**	0.182 U	0.200 U	**1.99**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenol	50	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	0.228 U	7.03 U	0.195 U	0.229 U	2.24 U	**5.54**	0.182 U	0.200 U	**2.61**	0.183 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,5-Trichlorophenol	1,000	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,6-Trichlorophenol	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	TRC-47			TRC-48				TRC-49			TRC-50			TRC-51			TRC-52			TRC-53			TRC-54				TRC-55			A3-1	
			Sample Depth (ft.):	1	5	8	1	4	4	8	1	5	8	1	4	7	1	4	7	1	4	7	1	4	6	1	4	4	7	1	3.5	8	0-1	1-3
			Sample Date:	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	4/17/2009	4/17/2009
		S-1/GW-2	S-1/GW-3						Field Dup																		Field Dup							
PCBs																																		
(mg/kg)	Aroclor 1016	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1221	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1232	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1242	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1248	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1262	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides																																		
(mg/kg)	Aldrin	0.04	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	delta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.7	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlordane	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDD	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDE	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDT	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dieldrin	0.05	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan I	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan II	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Aldehyde	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Ketone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor Epoxide	0.09	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methoxychlor	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toxaphene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																																		
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																																		
(mg/kg)	Antimony	20	20	5.48 U	6.75 U	4.68 U	5.50 U	5.37 U	5.79 U	4.37 U	4.80 U	5.26 U	4.39 U	5.22 U	4.67 U	4.39 U	5.46 U	**94.2**	4.31 U	5.62 U	5.01 U	4.73 U	5.43 U	4.83 U	4.62 U	5.02 U	5.54 U	5.32 U	7.86 U	5.14 U	5.55 U	4.94 U	NA	NA
	Arsenic	20	20	**4.59**	**13.3**	2.93 U	**5.94**	**8.44**	**14.1**	2.73 U	**4.03**	**4.48**	**3.42**	**4.95**	**31.7**	**7.54**	**4.64**	**16.1**	2.70 U	**5.34**	**21.7**	2.96 U	**5.40**	**9.99**	**3.25**	**4.39**	**27.2**	**27.4**	4.92 U	**5.68**	**38.4**	**4.16**	NA	NA
	Barium	1,000	1,000	**44.6**	**1,680**	**13.8**	**40.4**	**371**	**423**	**22.3**	**28.3**	**292**	**27.0**	**28.9**	**5,090**	**114**	**62.2**	**302**	**15.3**	**51.4**	**708**	**38.7**	**41.1**	**606**	**18.0**	**47.0**	**749**	**589**	**34.4**	**36.6**	**555**	**32.5**	NA	NA
	Beryllium	100	100	0.35 U	**1.53**	0.30 U	0.35 U	0.34 U	**0.85**	0.28 U	0.30 U	0.33 U	0.28 U	0.33 U	0.30 U	0.28 U	0.35 U	**1.07**	0.27 U	0.36 U	**1.24**	0.30 U	0.34 U	**0.79**	**0.49**	0.32 U	**1.29**	**1.46**	0.50 U	0.33 U	**1.50**	0.31 U	NA	NA
	Cadmium	2	2	0.35 U	**6.49**	0.30 U	0.35 U	**1.32**	**2.59**	0.28 U	0.30 U	**1.44**	0.28 U	0.33 U	**5.25**	**0.38**	**0.62**	**1.38**	0.27 U	**0.39**	**1.21**	0.30 U	0.34 U	**2.01**	0.29 U	**0.39**	**1.29**	**2.65**	0.50 U	0.33 U	**2.26**	0.31 U	NA	NA
	Chromium	30	30	**13.8**	**40.8**	**4.99**	**15.2**	**18.3**	**28.2**	**11.1**	**13.4**	**17.6**	**17.8**	**15.3**	**24.7**	**103**	**23.7**	**28.0**	**8.52**	**16.7**	**24.6**	**16.0**	**13.8**	**39.6**	**8.24**	**25.6**	**23.6**	**27.8**	**13.9**	**14.2**	**32.2**	**11.8**	NA	NA
	Lead	300	300	**73.2**	**1,030**	**2.53**	**92.2**	**820**	**1,330**	**3.96**	**43.0**	**840**	**4.02**	**48.5**	**1,360**	**6.39**	**158**	**668**	**4.86**	**78.9**	**1,110**	**7.27**	**66.6**	**703**	**4.56**	**116**	**1,380**	**989**	**9.27**	**74.5**	**3,140**	**7.61**	**68.9**	**235**
	Nickel	20	20	**7.77**	**25.9**	**2.44**	**6.18**	**10.9**	**20.2**	**5.35**	**4.68**	**7.94**	**7.83**	**5.34**	**14.0**	**33.2**	**13.7**	**78.5**	**3.18**	**6.20**	**17.6**	**8.15**	**6.59**	**12.6**	**5.18**	**12.3**	**44.3**	**44.1**	**9.44**	**6.28**	**32.4**	**8.46**	NA	NA
	Selenium	400	400	6.84 U	8.44 U	5.85 U	6.87 U	6.72 U	7.23 U	5.46 U	5.99 U	6.58 U	5.49 U	6.52 U	5.84 U	5.49 U	6.83 U	7.69 U	5.39 U	7.02 U	**6.60**	5.91 U	6.79 U	6.04 U	5.78 U	6.27 U	6.92 U	6.65 U	9.83 U	6.42 U	**7.09**	6.17 U	NA	NA
	Silver	100	100	0.69 U	0.85 U	0.59 U	0.69 U	0.68 U	**1.56**	0.55 U	0.60 U	0.66 U	0.55 U	0.66 U	0.59 U	**0.56**	0.69 U	0.77 U	0.54 U	0.71 U	0.63 U	0.60 U	0.68 U	0.61 U	0.58 U	0.63 U	0.70 U	0.67 U	0.99 U	0.65 U	0.70 U	0.62 U	NA	NA
	Thallium	8	8	4.11 U	5.06 U	3.51 U	4.13 U	4.03 U	4.34 U	3.28 U	3.60 U	3.95 U	3.29 U	3.92 U	3.51 U	3.29 U	4.10 U	4.61 U	3.23 U	4.21 U	3.76 U	3.55 U	4.08 U	3.62 U	3.47 U	3.76 U	4.15 U	3.99 U	5.90 U	3.86 U	4.17 U	3.70 U	NA	NA
	Vanadium	600	600	**22.0**	**36.7**	5.85 U	**24.7**	**17.5**	**26.2**	**13.1**	**19.1**	**15.7**	**19.5**	**21.5**	**23.1**	**31.0**	**32.7**	**39.7**	**5.95**	**23.9**	**30.5**	**16.9**	**25.2**	**23.4**	**11.2**	**24.7**	**48.9**	**55.2**	**13.4**	**25.3**	**53.6**	**16.4**	NA	NA
	Zinc	2,500	2,500	**63.5**	**1830**	**13.0**	**58.3**	**527**	**848**	**31.7**	**31.3**	**294**	**29.2**	**36.0**	**14,100**	**114**	**97.5**	**695**	**47.0**	**60.2**	**653**	**29.1**	**47.5**	**1240**	**20.2**	**96.8**	**664**	**1000**	**249**	**50.9**	**915**	**32.0**	NA	NA
	Mercury	20	20	**0.109**	**0.497**	0.010 U	**0.120**	**0.237**	**0.340**	0.014 U	**0.085**	**0.363**	0.013 U	**0.085**	**0.131**	0.013 U	**0.128**	**0.070**	**0.024**	**0.126**	**0.077**	0.010 U	**0.089**	**0.286**	0.017 U	**0.061**	**0.198**	**0.237**	0.040 U	**0.108**	**0.387**	0.020 U	NA	NA
Metals,TCLP																																		
(mg/L)	Arsenic	NS	NS	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA	NA
	Barium	NS	NS	**0.26**	**1.05**	**0.30**	**1.15**	**0.95**	**1.11**	**0.24**	**0.25**	**0.96**	**0.36**	**0.19**	**2.14**	**0.31**	**0.44**	**0.27**	**0.24**	**0.34**	**1.88**	**0.24**	**0.27**	**1.56**	**0.20**	**0.33**	**0.97**	**0.96**	**0.16**	**0.23**	**1.23**	**0.28**	NA	NA
	Cadmium	NS	NS	0.005 U	**0.031**	0.005 U	**0.010**	**0.021**	**0.039**	0.005 U	0.005 U	**0.008**	0.005 U	0.005 U	**0.045**	0.005 U	**0.006**	0.005 U	0.005 U	0.005 U	**0.017**	0.005 U	0.005 U	**0.011**	0.005 U	0.005 U	0.005 U	**0.007**	0.005 U	0.005 U	**0.009**	0.005 U	NA	NA
	Chromium	NS	NS	0.01 U	0.01 U	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	0.01 U	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA
	Lead	NS	NS	**0.036**	**0.518**	0.015 U	**2.31**	**1.55**	**2.78**	0.015 U	**0.044**	**0.351**	0.015 U	**0.050**	**6.36**	0.015 U	**0.179**	**0.083**	0.015 U	**0.075**	**1.23**	0.015 U	**0.073**	**0.580**	**0.032**	**0.112**	**0.657**	**0.703**	0.015 U	**0.040**	**4.95**	**0.016**	NA	NA
	Selenium	NS	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
	Silver	NS	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.018**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.030**	0.005 U	0.005 U	0.005 U	**0.006**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
	Mercury	NS	NS	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	0.00010 U	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
VOCs - Volatile Organic Compounds.
(1) - MCP Method 1 standards for C9-C10 aromatics used.
(2) - MCP RC for Dichloropropane used.
(3) - MCP RC for Dichloropropene used.
(4) - MCP Method 1 standards for 1,3-Dichloropropene used.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1: Maximum Concentration of Contaminants for Toxicity Characteristic.

Samples highlighted in red were not used in the risk characterization (excavated, beyond the area of mapped fill or representative of background conditions).

Depth-specific sample used in the risk characterization, even though shallower depths at this location were excavated.

Samples highlighted in yellow are included in the Petroleum Exposure Point. All unhighlighted samples are included in the Fill Exposure Point.

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	A3-2		A3-3		A3-4		A5-1		A5-2			A5-3		A5-4		TF-E		TF-N		TF-S		TF-S2		TF-S3	TF-N2		TF-N4		TF-N6
			Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0.5-1	1-3	0.5-1	1-3	1-3	0.5-1	1-3	0.5-1	1-3	0-3/2	6-7/7	0-3/2	6-7/7	0-3/2	5-6/6	0-3/2	6-7/6	6-7/6	3	8	3	8	7
			Sample Date:	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009
		S-1/GW-2	S-1/GW-3																														
VOCs																																	
(mg/kg)	Acetone	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Amylmethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromochloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromodichloromethane	0.1	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromoform	1	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bromomethane	0.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Butanone (MEK)	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	n-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	sec-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	tert-Butylethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Disulfide	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Carbon Tetrachloride	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorobenzene	3	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlorodibromomethane	0.03	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloroform	0.3	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chloromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chlorotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromo-3-Chloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dibromoethane	0.1	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibromomethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dichlorodifluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethane	5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloroethane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloroethylene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,2-Dichloroethylene	0.4	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,2-Dichloroethylene	1	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2-Dichloropropane	0.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,2-Dichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1-Dichloropropene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	cis-1,3-Dichloropropene	0.4[6]	9[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	trans-1,3-Dichloropropene	0.4[6]	9[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diethyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diisopropyl Ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dioxane	6	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Ethyl Benzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Hexanone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Isopropylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	p-Isopropyltoluene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methylene Chloride	20	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MIBK	50	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	n-Propylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Styrene	4	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1,2-Tetrachloroethane	0.1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2,2-Tetrachloroethane	0.02	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachloroethylene	10	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrahydrofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,1-Trichloroethane	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,1,2-Trichloroethane	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichloroethylene	2	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichlorofluoromethane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,3-Trichloropropane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,2,4-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3,5-Trimethylbenzene	100[1]	100[1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vinyl Chloride	0.6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	A3-2		A3-3		A3-4		A5-1		A5-2			A5-3		A5-4		TF-E		TF-N		TF-S		TF-S2		TF-S3	TF-N2		TF-N4		TF-N6
			Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0.5-1	1-3	0.5-1	1-3	1-3	0.5-1	1-3	0.5-1	1-3	0-3/2	6-7/7	0-3/2	6-7/7	0-3/2	5-6/6	0-3/2	6-7/6	6-7/6	3	8	3	8	7
			Sample Date:	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009
		S-1/GW-2	S-1/GW-3																														
VPH																																	
(mg/kg)	C5-C8 Aliphatics	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17 U	37 U	22 U	36 U	23 U	29 U	19 U	27 U	26 U	18 U	39 U	21 U	30 U	27 U
	C9-C12 Aliphatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12 U	25 U	15 U	**34**	15 U	19 U	12 U	18 U	18 U	12 U	26 U	14 U	20 U	18 U
	C9-C10 Aromatics	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12 U	25 U	15 U	24 U	15 U	19 U	12 U	18 U	18 U	12 U	26 U	14 U	20 U	18 U
	Benzene	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.058 U	0.12 U	0.073 U	0.12 U	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	0.10 U	0.091 U
	Ethylbenzene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.058 U	0.12 U	0.073 U	**0.12**	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	**0.15**	0.091 U
	MTBE	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.058 U	0.12 U	0.073 U	0.12 U	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	0.10 U	0.091 U
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.58 U	1.2 U	0.73 U	**4.1**	0.76 U	0.96 U	0.62 U	0.90 U	0.88 U	0.59 U	1.3 U	0.68 U	**5.6**	0.91 U
	Toluene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.058 U	0.12 U	0.073 U	0.12 U	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	**0.29**	0.091 U
	m/p-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U	0.25 U	0.15 U	0.24 U	0.15 U	0.19 U	0.12 U	0.18 U	0.18 U	0.12 U	0.26 U	0.14 U	0.20 U	0.18 U
	o-Xylene	300	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.058 U	0.12 U	0.073 U	**0.16**	0.076 U	0.096 U	0.062 U	0.090 U	0.088 U	0.059 U	0.13 U	0.068 U	**0.19**	0.091 U
EPH																																	
(mg/kg)	C9-C18 Aliphatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11 U	13 U	11 U	670 U	11 U	1,200 U	11 U	26 U	12 U	11 U	690 U	11 U	630 U	**450**
	C19-C36 Aliphatics	3,000	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**150**	**21**	11 U	**10,000**	**23**	**50,000**	**16**	**590**	12 U	**22**	**7,400**	**11**	**4,000**	**2,800**
	C11-C22 Aromatics	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**98**	**34**	11 U	**6,800**	**23**	**21,000**	**16**	**290**	**13**	**16**	**4,600**	11 U	**3,500**	**1,900**
SVOCs																																	
(mg/kg)	Acenaphthene	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**22**	3.1 U
	Acenaphthylene	600	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**7.7**	3.1 U
	Acetophenone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aniline	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**12**	3.1 U
	Benzo(a)anthracene	7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.34**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**13**	5.4
	Benzo(a)pyrene	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.28**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**18**	**4.7**
	Benzo(b)fluoranthene	7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.41**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**16**	**7.1**
	Benzo(g,h,i)perylene	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.18**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**12**	**5.1**
	Benzo(k)fluoranthene	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.14**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	6.3 U	3.1 U
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethyl)ether	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroisopropyl)ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-ethylhexyl)phthalate	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Bromophenyl phenyl ether	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chloroaniline	100	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorophenol	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.44**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	**0.13**	6.9 U	0.11 U	**17**	**6.2**
	Dibenzofuran	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	6.3 U	3.1 U
	1,2-Dichlorobenzene	30	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,3-Dichlorobenzene	40	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1,4-Dichlorobenzene	4	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3,3'-Dichlorobenzidine	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dichlorophenol	60	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diethylphthalate	200	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dimethylphenol	100	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dimethylphthalate	50	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrophenol	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4-Dinitrotoluene	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Azobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.45**	0.11 U	6.7 U	**0.12**	12 U	0.11 U	0.26 U	0.12 U	**0.22**	**9.0**	0.11 U	**15**	**9.9**
	Fluorene	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**19**	3.1 U
	Hexachlorobenzene	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobutadiene	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachloroethane	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.20**	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**8.9**	3.1 U
	Isophorone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-cresol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	m & p-cresol(s)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**33**	3.1 U
	Naphthalene	40	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.13 U	0.11 U	6.7 U	0.11 U	12 U	0.11 U	0.26 U	0.12 U	0.11 U	6.9 U	0.11 U	**39**	3.1 U
	Nitrobenzene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pentachlorophenol	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	**0.14**	0.11 U	6.7 U	**0.11**	12 U	0.11 U	0.26 U	0.12 U	**0.16**	**12**	0.11 U	**40**	**9.3**
	Phenol	50	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.13**	**0.63**	0.11 U	6.7 U	**0.22**	12 U	0.11 U	**0.33**	0.12 U	**0.24**	**11**	0.11 U	**27**	**11**
	1,2,4-Trichlorobenzene	70	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,5-Trichlorophenol	1,000	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2,4,6-Trichlorophenol	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE D-1
Summary of Analytical Results for Soil Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	A3-2	A3-3		A3-4		A5-1		A5-2			A5-3		A5-4		TF-E		TF-N		TF-S		TF-S2		TF-S3	TF-N2		TF-N4		TF-N6
				Sample Depth (ft.):	0-1	1-3	0-1	1-3	0-1	1-3	0.5-1	1-3	0.5-1	1-3	1-3	0.5-1	1-3	0.5-1	1-3	0-3/2	6-7/7	0-3/2	6-7/7	0-3/2	5-6/6	0-3/2	6-7/6	6-7/6	3	8	3	8	7
				Sample Date:	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	4/17/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	9/18/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009	11/25/2009
		S-1/GW-2	S-1/GW-3																														
PCBs																																	
(mg/kg)	Aroclor 1016	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.52**
	Aroclor 1221	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1232	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1242	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1248	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1254	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1260	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12 U
	Aroclor 1262	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.52**
Pesticides																																	
(mg/kg)	Aldrin	0.04	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	delta-BHC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.7	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-Chlordane	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chlordane	0.7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDD	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDE	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4,4-DDT	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dieldrin	0.05	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan I	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan II	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Aldehyde	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Ketone	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor Epoxide	0.09	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Methoxychlor	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Toxaphene	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																																	
(mg/kg)	Unknown Hydrocarbons	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																																	
(mg/kg)	Antimony	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.9 U
	Arsenic	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**
	Barium	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**180**
	Beryllium	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.31 U
	Cadmium	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.74**
	Chromium	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**9.2**
	Lead	300	300	**53.4**	**114**	**26.0**	**76.8**	**93.7**	**284**	**458**	**6.20**	**32.6**	**751**	**1,320**	**6.52**	**295**	**15.9**	**4.98**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**630**
	Nickel	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6.0**
	Selenium	400	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2 U
	Silver	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.62 U
	Thallium	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U
	Vanadium	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**15**
	Zinc	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**190**
	Mercury	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.27**
Metals,TCLP																																	
(mg/L)	Arsenic	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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.
NA - Sample not analyzed for the listed analyte.
ND - Not detected; quantitation limits not available in historical data reports.
NS - No MassDEP standards exist for this compound.
R - Rejected data point due to matrix spike recovery <30%.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
EPH - Extractable Petroleum Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
VPH - Volatile Petroleum Hydrocarbons.
RC - Reportable Concentration.
SVOCs - Semivolatile Organic Compounds.
TCLP - Toxicity Characteristic Leaching Procedure.
VOCs - Volatile Organic Compounds.
(1) - MCP Method 1 standards for C9-C10 aromatics used.
(2) - MCP RC for Dichloropropane used.
(3) - MCP RC for Dichloropropene used.
(4) - MCP Method 1 standards for 1,3-Dichloropropene used.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

** - SW-846, Chapter 7, Characteristics Introduction and Regulatory Definitions, Table 7-1: Maximum Concentration of Contaminants for Toxicity Characteristic.

Samples highlighted in red were not used in the risk characterization (excavated, beyond the area of mapped fill or representative of background conditions).

Depth-specific sample used in the risk characterization, even though shallower depths at this location were excavated.

Samples highlighted in yellow are included in the Petroleum Exposure Point. All unhighlighted samples are included in the Fill Exposure Point.

TABLE D-2
Summary of Analytical Results for Groundwater Samples
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	TRC-01		TRC-02
				Sample Date:	1/29/2009	1/29/2009	1/29/2009
		GW-2	GW-3	UCL		Field Dup	
Metals, total							
(ug/L)	Arsenic	NA	900	9,000	5.0 U	**7.0**	5.0 U
	Barium	NA	50,000	100,000	**219**	**225**	**184**
	Zinc	NA	900	50,000	**18**	**38**	**174**

Notes:

All units in ug/L unless otherwise specified.

ug/L - micrograms per liter.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

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

SVOCs - Semivolatile Organic Compounds.

UCL - Upper Concentration Limit

TABLE D-3
Statistics of Analytical Detected Results for Soil Samples (0-1') - Fill Exposure Point
New Andrea McCoy Field
New Bedford, Massachusetts

Analysis	Analyte	S-1/GW-2	S-1/GW-3	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
SVOCs															
	Benzo(a)anthracene	7	7	2	10	3	30.0%	0.552	1.5	Keith S-12	0.183	1.07	4.4E-01	NA	Below background
	Benzo(a)pyrene	2	2	2	10	3	30.0%	0.532	1.8	Keith S-12	0.183	1.07	4.6E-01	NA	Below background
	Benzo(b)fluoranthene	7	7	2	10	3	30.0%	0.717	2.5	Keith S-12	0.183	1.07	5.7E-01	5.7E-01	Mean
	Benzo(g,h,i)perylene	1,000	1,000	1	10	1	10.0%	0.43	0.43	SS-4	0.183	1.07	2.5E-01	NA	Below background
	Chrysene	70	70	2	10	3	30.0%	0.576	1.3	Keith S-12	0.183	1.07	4.2E-01	NA	Below background
	Fluoranthene	1,000	1,000	4	10	5	50.0%	0.287	2.4	Keith S-12	0.183	1.07	7.6E-01	NA	Below background
	Phenanthrene	500	500	3	10	3	30.0%	1.04	1.43	SS-4	0.183	1.07	5.1E-01	NA	Below background
	Pyrene	1,000	1,000	4	10	4	40.0%	0.551	3.8	Keith S-12	0.183	1.07	8.3E-01	NA	Below background
PCBs															
	Total PCBs	2	2	NA	7	4	57.1%	0.0593	0.352	SS-4	0.0511	0.2	1.2E-01	2.5E-01	Mean
Metals, total															
	Arsenic	20	20	20	15	12	80.0%	2.77	5.94	TRC-48	0.68	3.71	3.8E+00	NA	Below background
	Barium	1,000	1,000	50	15	15	100.0%	22.9	126	TRC-25	--	--	5.2E+01	5.2E+01	Mean
	Cadmium	2	2	2	15	8	53.3%	0.28	0.725	SS-1	0.28	0.35	3.4E-01	NA	Below background
	Chromium	30	30	30	15	15	100.0%	7.75	**116**	TRC-25	--	--	2.3E+01	2.3E+01	Mean
	Lead	300	300	100	22	22	100.0%	3.33	**590**	SS-4	--	--	1.0E+02	1.0E+02	Mean
	Nickel	20	20	20	11	11	100.0%	4.68	**49**	TRC-25	--	--	1.1E+01	1.1E+01	Mean
	Selenium	400	400	0.5	14	1	7.1%	1.03	1.03	Keith S-12	5.47	8.3	3.2E+00	3.2E+00	Mean
	Vanadium	600	600	30	11	11	100.0%	12.6	46.4	TRC-25	--	--	2.5E+01	2.5E+01	Mean
	Zinc	2,500	2,500	100	11	11	100.0%	15.9	97.5	TRC-51	--	--	5.4E+01	NA	Below background
	Mercury	20	20	0.3	15	11	73.3%	0.061	0.128	TRC-51	0.011	0.058	8.1E-02	NA	Below background

Notes:
All units in mg/kg unless otherwise specified.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
NA - Not available or not applicable.
SVOCs - Semivolatile organic compounds
PCBs - Polychlorinated biphenyls.
Background - Background Concentration for natural soil.
UCL - Upper confidence limit on the arithmetic mean concentration.
EPC - Exposure Point Concentration
Values shown in Bold and shaded type exceed background and one or more of the listed Method 1 standards.
Boxed maxima exceed natural soil background.

TABLE D-4
Statistics of Analytical Detected Results for Soil Samples (0-3') - Fill Exposure Point
New Andrea McCoy Field
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
SVOCs																
	Acenaphthylene	600	10	10,000	0.5	12	1	8.3%	0.3	0.3	Keith S-2	0.056	1.07	2.1E-01	NA	Below background
	Anthracene	1,000	1,000	10,000	1	12	1	8.3%	0.4	0.4	Keith S-2	0.056	1.07	2.2E-01	NA	Below background
	Benzo(a)anthracene	7	7	3,000	2	12	5	41.7%	0.091	1.5	Keith S-12	0.183	1.07	4.7E-01	NA	Below background
	Benzo(a)pyrene	2	2	300	2	12	5	41.7%	0.081	1.8	Keith S-12	0.183	1.07	5.0E-01	NA	Below background
	Benzo(b)fluoranthene	7	7	3,000	2	12	5	41.7%	0.14	2.5	Keith S-12	0.183	1.07	6.3E-01	6.3E-01	Mean
	Benzo(g,h,i)perylene	1,000	1,000	10,000	1	12	2	16.7%	0.39	0.43	SS-4	0.056	1.07	2.4E-01	NA	Below background
	Benzo(k)fluoranthene	70	70	10,000	1	12	1	8.3%	0.53	0.53	Keith S-2	0.056	1.07	2.3E-01	NA	Below background
	Chrysene	70	70	400	2	12	5	41.7%	0.094	1.3	Keith S-12	0.183	1.07	4.5E-01	NA	Below background
	Dibenz(a,h)anthracene	0.7	0.7	300	0.5	12	1	8.3%	0.17	0.17	Keith S-2	0.056	1.07	2.0E-01	NA	Below background
	Fluoranthene	1,000	1,000	10,000	4	12	7	58.3%	0.2	2.4	Keith S-12	0.183	1.07	8.0E-01	NA	Below background
	Indeno(1,2,3-cd)pyrene	7	7	3,000	1	12	1	8.3%	0.48	0.48	Keith S-2	0.056	1.07	2.3E-01	NA	Below background
	Phenanthrene	500	500	10,000	3	12	5	41.7%	0.16	1.43	SS-4	0.183	1.07	5.0E-01	NA	Below background
	Pyrene	1,000	1,000	10,000	4	12	6	50.0%	0.18	3.8	Keith S-12	0.183	1.07	8.7E-01	NA	Below background
PCBs																
	Total PCBs	2	2	100	NA	9	4	44.4%	0.0593	0.352	SS-4	0.0511	0.2	1.1E-01	2.2E-01	Mean
Metals, total																
	Arsenic	20	20	200	20	17	14	82.4%	2.77	8.45	Keith S-1	0.68	3.71	4.1E+00	NA	Below background
	Barium	1,000	1,000	10,000	50	17	17	100.0%	22.9	358	Keith S-1	--	--	8.2E+01	8.2E+01	Mean
	Cadmium	2	2	300	2	17	10	58.8%	0.28	**9.13**	Keith S-1	0.28	0.35	9.3E-01	9.3E-01	Mean
	Chromium	30	30	2,000	30	17	17	100.0%	7.75	**116**	TRC-25	--	--	2.2E+01	2.2E+01	Mean
	Lead	300	300	3,000	100	35	35	100.0%	3.33	**1320**	A5-2	--	--	1.9E+02	1.9E+02	Mean
	Nickel	20	20	7,000	20	11	11	100.0%	4.68	**49**	TRC-25	--	--	1.1E+01	1.1E+01	Mean
	Selenium	400	400	8,000	0.5	16	2	12.5%	1.03	2.92	Keith S-1	0.74	8.3	3.0E+00	3.0E+00	Mean
	Vanadium	600	600	10,000	30	11	11	100.0%	12.6	46.4	TRC-25	--	--	2.5E+01	2.5E+01	Mean
	Zinc	2,500	2,500	10,000	100	11	11	100.0%	15.9	97.5	TRC-51	--	--	5.4E+01	NA	Below background
	Mercury	20	20	300	0.3	17	13	76.5%	0.061	0.278	Keith S-2	0.011	0.058	9.4E-02	NA	Below background

Notes:
All units in mg/kg unless otherwise specified.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
NA - Not available or not applicable.
SVOCs - Semivolatile organic compounds
PCBs - Polychlorinated biphenyls.
Background - Background Concentration for natural soil.
UCL - Upper concentration limit
EPC - Exposure Point Concentration
Values shown in Bold and shaded type exceed background and one or more of the listed Method 1 standards.
Boxed maxima exceed natural soil background.

TABLE D-5
Summary of Analytical Detected Results for Soil Samples (0-3') - Petroleum Exposure Point
New Andrea McCoy Field
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
EPH																
	C19-C36 Aliphatics	3,000	3,000	20,000	NA	6	5	83.3%	11	150	TF-E	11	11	3.8E+01	3.8E+01	Mean
	C11-C22 Aromatics	1,000	1,000	10,000	NA	6	4	66.7%	16	98	TF-E	11	11	2.7E+01	2.7E+01	Mean
	Chrysene	70	70	400	2	6	1	16.7%	0.13	0.13	TF-N2	0.11	0.11	6.8E-02	NA	Below background
	Fluoranthene	1,000	1,000	10,000	4	6	2	33.3%	0.12	0.22	TF-N2	0.11	0.11	9.3E-02	NA	Below background
	Phenanthrene	500	500	10,000	3	6	2	33.3%	0.11	0.16	TF-N2	0.11	0.11	8.2E-02	NA	Below background
	Pyrene	1,000	1,000	10,000	4	6	3	50.0%	0.13	0.24	TF-N2	0.11	0.11	1.3E-01	NA	Below background

Notes:
All units in mg/kg unless otherwise specified.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
NA - Not available or not applicable.
EPH - Extractable Petroleum Hydrocarbons
Background - Background Concentration for natural soil.
UCL - Upper concentration limit
EPC - Exposure Point Concentration
Values shown in Bold and shaded type exceed background and one or more of the listed Method 1 standards.
Boxed maxima exceed natural soil background.

TABLE D-6
Statistics of Analytical Detected Results for Soil Samples (0-15') - Fill Exposure Point
New Andrea McCoy Field
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
EPH																
	C11-C22 Aromatics	1,000	1,000	10,000	NA	7	1	14.3%	20	20	TP-1	12	31.3	1.2E+01	1.2E+01	Mean
SVOCs																
	Acenaphthylene	600	10	10,000	0.5	31	1	3.2%	0.3	0.3	Keith S-2	0.056	7.03	2.9E-01	NA	Below background
	Anthracene	1,000	1,000	10,000	1	31	1	3.2%	0.4	0.4	Keith S-2	0.056	7.03	2.9E-01	NA	Below background
	Benzo(a)anthracene	7	7	3,000	2	31	8	25.8%	0.091	1.61	TRC-48	0.12	7.03	4.4E-01	NA	Below background
	Benzo(a)pyrene	2	2	300	2	31	8	25.8%	0.081	1.8	Keith S-12	0.12	7.03	4.4E-01	NA	Below background
	Benzo(b)fluoranthene	7	7	3,000	2	31	9	29.0%	0.14	2.5	Keith S-12	0.12	7.03	5.2E-01	5.2E-01	Mean
	Benzo(g,h,i)perylene	1,000	1,000	10,000	1	31	4	12.9%	0.19175	1.17	TRC-48	0.056	7.03	3.2E-01	3.2E-01	Mean
	Benzo(k)fluoranthene	70	70	10,000	1	31	3	9.7%	0.22525	1.065	TRC-48	0.056	7.03	3.1E-01	3.1E-01	Mean
	Chrysene	70	70	400	2	31	9	29.0%	0.094	1.705	TRC-48	0.12	7.03	4.5E-01	4.5E-01	Below background
	Dibenz(a,h)anthracene	0.7	0.7	300	0.5	31	1	3.2%	0.17	0.17	Keith S-2	0.056	7.03	2.8E-01	NA	Below background
	Fluoranthene	1,000	1,000	10,000	4	31	11	35.5%	0.2	3.18	TRC-48	0.12	7.03	6.8E-01	NA	Below background
	Indeno(1,2,3-cd)pyrene	7	7	3,000	1	31	3	9.7%	0.23175	1.43	TRC-48	0.056	7.03	3.2E-01	3.2E-01	Mean
	Phenanthrene	500	500	10,000	3	31	9	29.0%	0.16	1.99	TRC-49	0.12	7.03	5.0E-01	NA	Below background
	Pyrene	1,000	1,000	10,000	4	31	10	32.3%	0.18	3.8	Keith S-12	0.12	7.03	7.3E-01	NA	Below background
PCBs																
	Total PCBs	2	2	100	NA	22	5	22.7%	0.02	0.352	SS-4	0.016	0.217	6.7E-02	6.7E-02	Mean
Total Petroleum Hydrocarbons																
	Unknown Hydrocarbons	1,000	1,000	10,000	NA	1	1	100.0%	30	30	TRC-10	--	--	3.0E+01	3.0E+01	Maximum
Metals, total																
	Antimony	20	20	300	1	41	1	2.4%	94.2	**94.2**	TRC-51	4.28	9.39	4.9E+00	4.9E+00	Mean
	Arsenic	20	20	200	20	52	31	59.6%	2.77	**27.3**	TRC-54	0.48	5.12	5.5E+00	5.5E+00	Mean
	Barium	1,000	1,000	10,000	50	52	52	100.0%	7.5	**1680**	TRC-47	--	--	1.5E+02	1.5E+02	Mean
	Beryllium	100	100	2,000	0.4	41	11	26.8%	0.37	1.53	TRC-47	0.27	0.59	3.6E-01	3.6E-01	Mean
	Cadmium	2	2	300	2	52	23	44.2%	0.28	**9.13**	Keith S-1	0.097	0.52	9.4E-01	9.4E-01	Mean
	Chromium	30	30	2,000	30	52	52	100.0%	2.6	**116**	TRC-25	--	--	2.0E+01	2.0E+01	Mean
	Lead	300	300	3,000	100	70	69	98.6%	1.9	**1320**	A5-2	0.81	0.81	2.4E+02	2.4E+02	Mean
	Nickel	20	20	7,000	20	41	41	100.0%	1.82	**78.5**	TRC-51	--	--	1.3E+01	1.3E+01	Mean
	Selenium	400	400	8,000	0.5	48	8	16.7%	1.03	6.6	TRC-52	0.74	9.83	3.1E+00	3.1E+00	Mean
	Silver	100	100	2,000	0.6	52	2	3.8%	0.56	0.95	TRC-48	0.097	1.18	3.1E-01	3.1E-01	Mean
	Vanadium	600	600	10,000	30	41	37	90.2%	5.95	52.05	TRC-54	5.51	5.85	2.1E+01	2.1E+01	Mean
	Zinc	2,500	2,500	10,000	100	41	41	100.0%	12.4	1830	TRC-47	--	--	2.3E+02	2.3E+02	Mean
	Mercury	20	20	300	0.3	52	27	51.9%	0.024	6.99	TRC-10	0.01	0.058	2.2E-01	2.2E-01	Mean

Notes:
All units in mg/kg unless otherwise specified.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
NA - Not available or not applicable.
SVOCs - Semivolatile organic compounds
PCBs - Polychlorinated biphenyls.
Background - Background Concentration for natural soil.
UCL - Upper concentration limit.
EPC - Exposure Point Concentration
Values shown in Bold and shaded type exceed background and one or more of the listed Method 1 standards.
Boxed maxima exceed natural soil background.

TABLE D-7
Summary of Analytical Detected Results for Soil Samples (0-15') - Petroleum Exposure Point
New Andea McCoy Field
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
VPH																
	C9-C12 Aliphatics	1,000	1,000	20,000	NA	14	1	7.1%	34	34	TF-N	12	26	1.0E+01	1.0E+01	Mean
	Ethylbenzene	500	500	10,000	NA	14	2	14.3%	0.12	0.15	TF-N4	0.058	0.13	5.5E-02	5.5E-02	Mean
	Naphthalene	40	500	10,000	0.5	14	2	14.3%	4.1	5.6	TF-N4	0.58	1.3	1.1E+00	1.1E+00	Mean
	Toluene	500	500	10,000	NA	14	1	7.1%	0.29	0.29	TF-N4	0.058	0.13	6.1E-02	6.1E-02	Mean
	o-Xylene	300	500	10,000	NA	14	2	14.3%	0.16	0.19	TF-N4	0.058	0.13	6.1E-02	6.1E-02	Mean
EPH																
	C9-C18 Aliphatics	1,000	1,000	20,000	NA	14	1	7.1%	450	450	TF-N6	11	1200	1.5E+02	1.5E+02	Mean
	C19-C36 Aliphatics	3,000	3,000	20,000	NA	14	12	85.7%	11	**50,000**	TF-S	11	12	5.4E+03	**5.4E+03**	Mean
	C11-C22 Aromatics	1,000	1,000	10,000	NA	14	12	85.7%	13	**21,000**	TF-S	11	11	2.7E+03	**2.7E+03**	Mean
	Acenaphthene	1,000	1,000	10,000	0.5	14	1	7.1%	22	22	TF-N4	0.11	12	2.6E+00	2.6E+00	Mean
	Acenaphthylene	600	10	10,000	0.5	14	1	7.1%	7.7	7.7	TF-N4	0.11	12	1.6E+00	1.6E+00	Mean
	Anthracene	1,000	1,000	10,000	1	14	1	7.1%	12	12	TF-N4	0.11	12	1.9E+00	1.9E+00	Mean
	Benzo(a)anthracene	7	7	3,000	2	14	3	21.4%	0.34	**13**	TF-N4	0.11	12	2.3E+00	2.3E+00	Mean
	Benzo(a)pyrene	2	2	300	2	14	3	21.4%	0.28	**18**	TF-N4	0.11	12	2.6E+00	**2.6E+00**	Mean
	Benzo(b)fluoranthene	7	7	3,000	2	14	3	21.4%	0.41	**16**	TF-N4	0.11	12	2.6E+00	2.6E+00	Mean
	Benzo(g,h,i)perylene	1,000	1,000	10,000	1	14	3	21.4%	0.18	12	TF-N4	0.11	12	2.2E+00	2.2E+00	Mean
	Benzo(k)fluoranthene	70	70	10,000	1	14	1	7.1%	0.14	0.14	TF-E	0.11	12	1.3E+00	NA	Below background
	Chrysene	70	70	400	2	14	4	28.6%	0.13	17	TF-N4	0.11	12	2.6E+00	2.6E+00	Mean
	Fluoranthene	1,000	1,000	10,000	4	14	6	42.9%	0.12	15	TF-N4	0.11	12	3.2E+00	3.2E+00	Mean
	Fluorene	1,000	1,000	10,000	1	14	1	7.1%	19	19	TF-N4	0.11	12	2.4E+00	2.4E+00	Mean
	Indeno(1,2,3-cd)pyrene	7	7	3,000	1	14	2	14.3%	0.2	**8.9**	TF-N4	0.11	12	1.7E+00	1.7E+00	Mean
	2-Methylnaphthalene	80	300	5,000	0.5	14	1	7.1%	33	33	TF-N4	0.11	12	3.4E+00	3.4E+00	Mean
	Naphthalene	40	500	10,000	0.5	14	1	7.1%	39	39	TF-N4	0.11	12	3.9E+00	3.9E+00	Mean
	Phenanthrene	500	500	10,000	3	14	6	42.9%	0.11	40	TF-N4	0.11	12	5.1E+00	5.1E+00	Mean
	Pyrene	1,000	1,000	10,000	4	14	8	57.1%	0.13	27	TF-N4	0.11	12	4.3E+00	4.3E+00	Mean
Metals, total																
	Arsenic	20	20	200	20	1	1	100.0%	10	10	TF-N6	--	--	1.0E+01	NA	Below background
	Barium	1,000	1,000	10,000	50	1	1	100.0%	180	180	TF-N6	--	--	1.8E+02	1.8E+02	Maximum
	Cadmium	2	2	300	2	1	1	100.0%	0.74	0.74	TF-N6	--	--	7.4E-01	NA	Below background
	Chromium	30	30	2,000	30	1	1	100.0%	9.2	9.2	TF-N6	--	--	9.2E+00	NA	Below background
	Lead	300	300	3,000	100	1	1	100.0%	630	**630**	TF-N6	--	--	6.3E+02	**6.3E+02**	Maximum
	Nickel	20	20	7,000	20	1	1	100.0%	6	6	TF-N6	--	--	6.0E+00	NA	Below background
	Vanadium	600	600	10,000	30	1	1	100.0%	15	15	TF-N6	--	--	1.5E+01	NA	Below background
	Zinc	2,500	2,500	10,000	100	1	1	100.0%	190	190	TF-N6	--	--	1.9E+02	1.9E+02	Maximum
	Mercury	20	20	300	0.3	1	1	100.0%	0.27	0.27	TF-N6	--	--	2.7E-01	NA	Below background

Notes:
All units in mg/kg unless otherwise specified.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
NA - Not available or not applicable.
VPH - Volatile Petroleum Hydrocarbons
EPH - Extractable Petroleum Hydrocarbons
Background - Background Concentration for natural soil.
UCL - Upper concentration limit
EPC - Exposure Point Concentration
Values shown in Bold and shaded type exceed background and one or more of the listed Method 1 standards.
Boxed maxima exceed natural soil background.

Construction Worker - Soil: Table CW-1 (Petroleum Exposure Point - 0-15')
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) = 6E-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}
Aliphatics C9 to C12	1.0E+01						1.3E-05	6.5E-05	3.3E-07	6.5E-07	7.9E-05
Ethylbenzene	5.5E-02						6.8E-08	1.4E-07	1.8E-09	2.1E-09	2.1E-07
Naphthalene	1.1E+00						2.3E-06	6.5E-06	6.1E-08	1.3E-05	2.2E-05
Toluene	6.1E-02						9.4E-08	1.1E-07	2.4E-09	4.6E-10	2.1E-07
Xylenes (mixed isomers)	6.1E-02						3.8E-07	4.5E-07	9.8E-09	7.6E-09	8.5E-07
Aliphatics C9 to C18	1.5E+02						1.9E-04	9.3E-04	4.8E-06	9.3E-06	1.1E-03
Aliphatics C19 to C36	5.4E+03						1.1E-03	1.1E-03	2.9E-05		2.2E-03
Aromatics C11 to C22	2.7E+03						4.0E-03	1.1E-02	1.0E-04	2.0E-04	1.6E-02
Acenaphthene	2.6E+00						1.9E-06	5.5E-06	5.1E-08	2.0E-07	7.7E-06
Acenaphthylene	1.6E+00						2.4E-06	6.7E-06	6.2E-08	1.2E-07	9.3E-06
Anthracene	1.9E+00						2.8E-07	8.0E-07	7.4E-09	1.4E-07	1.2E-06
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	2.6E+00	4.6E-08	3.3E-08	1.2E-09	1.4E-09	8.3E-08	3.0E-06	2.1E-06	7.7E-08	1.9E-07	5.4E-06
Benzo(b)fluoranthene	2.6E+00	4.7E-09	3.4E-09	1.2E-10	1.5E-10	8.4E-09	3.0E-06	2.2E-06	7.8E-08	2.0E-07	5.5E-06
Benzo(g,h,i)perylene	2.2E+00						3.2E-06	9.0E-06	8.4E-08	1.6E-07	1.3E-05
Chrysene	2.6E+00	4.7E-10	3.4E-10	1.2E-11	1.5E-11	8.4E-10	3.0E-06	2.2E-06	7.9E-08	2.0E-07	5.5E-06
Fluoranthene	3.2E+00						3.5E-06	9.8E-06	9.1E-08	2.4E-07	1.4E-05
Fluorene	2.4E+00						2.7E-06	7.5E-06	7.0E-08	1.8E-07	1.0E-05
Indeno(1,2,3-cd)pyrene	1.7E+00	3.1E-09	2.2E-09	8.0E-11	9.5E-11	5.5E-09	2.0E-06	1.4E-06	5.1E-08	1.3E-07	3.6E-06
Methylnaphthalene, 2-	3.4E+00						3.8E-04	1.1E-03	9.8E-06	2.6E-07	1.5E-03
Naphthalene	3.9E+00						8.5E-06	2.4E-05	2.2E-07	4.8E-05	8.0E-05
Phenanthrene	5.1E+00						7.5E-06	2.1E-05	2.0E-07	3.8E-07	2.9E-05
Pyrene	4.3E+00						6.3E-06	1.8E-05	1.6E-07	3.2E-07	2.5E-05
Barium	1.8E+02						3.2E-03	1.6E-03	8.2E-05	1.3E-03	6.2E-03
Lead	6.3E+02						5.2E-01	6.3E-02	1.3E-02	2.3E-02	6.2E-01
Zinc	1.9E+02						7.8E-04	1.6E-04	2.0E-05	5.1E-03	6.0E-03

Resident - Soil: Table RS-1 (Petroleum Exposure Point - 0-15')
Exposure Point Concentration (EPC)
Based on Resident Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 4-06

Vlookup Version v0808

ELCR (all chemicals) = 4E-06
Chronic HI (all chemicals) = 5E+01
Subchronic HI (all chemicals) = 7E+01

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{vegetable}$	$ELCR_{total}$	Chronic				Subchronic			
						HQ_{ing}	HQ_{derm}	$HQ_{vegetable}$	HQ_{total}	HQ_{ing}	HQ_{derm}	$HQ_{vegetable}$	HQ_{total}
Aliphatics C9 to C12	1.0E+01					2.5E-04	1.1E-03		1.3E-03	7.0E-05	2.0E-04		2.7E-04
Ethylbenzene	5.5E-02					1.3E-06	2.3E-06		3.6E-06	3.7E-07	4.3E-07		8.0E-07
Naphthalene	1.1E+00					4.6E-05	1.1E-04		1.5E-04	1.3E-05	2.1E-05		3.3E-05
Toluene	6.1E-02					1.9E-06	1.9E-06		3.7E-06	5.1E-07	3.6E-07		8.7E-07
Xylenes (mixed isomers)	6.1E-02					7.4E-07	7.6E-07		1.5E-06	2.0E-06	1.4E-06		3.5E-06
Aliphatics C9 to C18	1.5E+02					3.6E-03	1.5E-02		1.9E-02	1.0E-03	2.9E-03		3.9E-03
Aliphatics C19 to C36	5.4E+03					6.5E-03	5.5E-03		1.2E-02	6.0E-03	3.5E-03		9.4E-03
Aromatics C11 to C22	2.7E+03					8.0E-02	1.9E-01		2.7E-01	2.2E-02	3.6E-02		5.7E-02
Acenaphthene	2.6E+00					3.8E-05	9.1E-05		1.3E-04	1.1E-05	1.7E-05		2.8E-05
Acenaphthylene	1.6E+00					4.7E-05	1.1E-04		1.6E-04	1.3E-05	2.1E-05		3.4E-05
Anthracene	1.9E+00					5.6E-06	1.3E-05		1.9E-05	1.5E-06	2.5E-06		4.0E-06
Benzo(a)anthracene	2.3E+00	1.8E-07	1.3E-07		3.0E-07	5.2E-05	3.1E-05		8.3E-05	1.4E-05	6.0E-06		2.0E-05
Benzo(a)pyrene	2.6E+00	2.0E-06	1.5E-06		3.5E-06	5.9E-05	3.6E-05		9.4E-05	1.6E-05	6.7E-06		2.3E-05
Benzo(b)fluoranthene	2.6E+00	2.0E-07	1.5E-07		3.5E-07	6.0E-05	3.6E-05		9.6E-05	1.6E-05	6.8E-06		2.3E-05
Benzo(g,h,i)perylene	2.2E+00					6.4E-05	1.5E-04		2.1E-04	1.8E-05	2.8E-05		4.6E-05
Chrysene	2.6E+00	2.0E-08	1.5E-08		3.5E-08	6.0E-05	3.6E-05		9.6E-05	1.6E-05	6.9E-06		2.3E-05
Fluoranthene	3.2E+00					6.9E-05	1.6E-04		2.3E-04	1.9E-05	3.1E-05		5.0E-05
Fluorene	2.4E+00					5.3E-05	1.2E-04		1.8E-04	1.5E-05	2.4E-05		3.8E-05
Indeno(1,2,3-cd)pyrene	1.7E+00	1.3E-07	9.7E-08		2.3E-07	3.9E-05	2.4E-05		6.2E-05	1.1E-05	4.5E-06		1.5E-05
Methylnaphthalene, 2-	3.4E+00					7.5E-04	1.8E-03		2.5E-03	2.1E-03	3.3E-03		5.4E-03
Naphthalene	3.9E+00					1.7E-04	4.0E-04		5.7E-04	4.6E-05	7.5E-05		1.2E-04
Phenanthrene	5.1E+00					1.5E-04	3.5E-04		5.0E-04	4.1E-05	6.6E-05		1.1E-04
Pyrene	4.3E+00					1.2E-04	3.0E-04		4.2E-04	3.4E-05	5.6E-05		9.0E-05
Barium	1.8E+02					2.2E-03	9.3E-04		3.1E-03	1.7E-02	5.0E-03		2.2E-02
Lead	6.3E+02					1.0E+00	1.0E-01	4.5E+01	4.6E+01	2.8E+00	2.0E-01	6.4E+01	6.7E+01
Zinc	1.9E+02					1.5E-03	2.6E-04	6.8E-01	6.8E-01	4.2E-03	4.9E-04	9.7E-01	9.7E-01

Park Visitor - Soil: Table PS-1 (Fill Exposure Point - 0-3')
Exposure Point Concentration (EPC)
Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 06-06

Vlookup Version v0808

ELCR (all chemicals) = 3E-07
Chronic HI (all chemicals) = 3E-01
Subchronic HI (all chemicals) = 6E-01

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material		EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{total}$	Chronic			Subchronic		
						HQ_{ing}	HQ_{derm}	HQ_{total}	HQ_{ing}	HQ_{derm}	HQ_{total}
Benzo(b)fluoranthene		6.3E-01	2.9E-08	2.1E-08	5.0E-08	8.5E-06	5.2E-06	1.4E-05	2.4E-06	9.8E-07	3.3E-06
Polychlorinated biphenyls (PCBs)		2.2E-01	8.4E-08	1.6E-07	2.5E-07	1.4E-02	2.2E-02	3.5E-02	1.5E-02	1.6E-02	3.1E-02
Barium		8.2E+01				6.0E-04	2.5E-04	8.5E-04	4.7E-03	1.4E-03	6.1E-03
Cadmium		9.3E-01				2.7E-03	3.2E-03	5.9E-03	7.4E-03	6.1E-03	1.3E-02
Chromium(VI)	Total Chromium	2.2E+01				1.1E-02	8.2E-03	1.9E-02	4.4E-03	2.3E-03	6.8E-03
Lead		1.9E+02				1.8E-01	1.9E-02	2.0E-01	5.1E-01	3.6E-02	5.4E-01
Nickel		1.1E+01				8.4E-04	2.5E-03	3.3E-03	2.3E-03	4.7E-03	7.0E-03
Selenium		3.0E+00				8.7E-04	1.5E-05	8.9E-04	2.4E-03	2.8E-05	2.4E-03
Vanadium		2.5E+01				4.1E-03	1.0E-03	5.1E-03	1.1E-02	2.0E-03	1.3E-02

Park Visitor - Soil: Table PS-1 (Petroleum Exposure Point - 0-3')
Exposure Point Concentration (EPC)
Based on Visitor Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 06-06

Vlookup Version v0808

ELCR (all chemicals) =

Chronic HI (all chemicals) = 2E-03

Subchronic HI (all chemicals) = 4E-04

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{total}$	Chronic			Subchronic		
					HQ_{ing}	HQ_{derm}	HQ_{total}	HQ_{ing}	HQ_{derm}	HQ_{total}
Aliphatics C19 to C36	3.8E+01				2.8E-05	2.3E-05	5.1E-05	2.5E-05	1.5E-05	4.0E-05
Aromatics C11 to C22	2.7E+01				4.8E-04	1.1E-03	1.6E-03	1.3E-04	2.1E-04	3.4E-04

APPENDIX E

DATA USABILITY ASSESSMENT

1: Discuss appropriateness of selected analytical methods to quantitatively support disposal site's RAO. Discuss any impacts to the data used to support the RAO if generated with non-CAM methods. Justify that the data used to support the RAO is adequate in spite of the use of non-CAM methods.

Appropriateness of Analytical Methods Used

- The following methods were utilized to respond to all contaminants of concern in soil: VPH, EPH, PAHs, TPH, PCB Aroclors, pesticides, total metals, and TCLP metals.
- Table DUA-1 summarizes all samples used for the RAO and included in this data usability assessment. It should be noted that excavated sampling locations were not included in this data usability assessment.
- Soil sample analyses performed in 2006, 2008 and 2009 were done under the CAM.

  ✓ All soil sample analyses were performed using the 2004 CAM. Mercury data was not in accordance with the more recent 2010 CAM which requires the use of a larger sample aliquot (0.6 grams) in the sample digestion. The representativeness of the mercury results may be affected. However, since all mercury results were significantly below the project action levels, the use of a smaller sample aliquot (0.1 to 0.3 grams) in the sample digestion most likely did not have an adverse effect on the sample results.

- Soil sample analyses performed in 2000 were done using pre-CAM methods.

Use of Pre-CAM Data

- Analytical procedures used for 2000 soil samples were pre-CAM methods. The following bullets summarize the pre-CAM evaluation performed and issues noted during this evaluation:

  ✓ Data generated using either MassDEP methods (i.e., EPH and VPH) or SW-846 methods (8081, 8082, 6010, 7471).
  ✓ Limited evaluation performed to assess the comparability of the pre-CAM analyses with CAM requirements. In general, only holding times and surrogate recoveries were available to assess the accuracy of the pre-CAM soil data due to the unavailability of other quality control data (i.e., method blanks, laboratory control spikes, matrix spikes). Based on the limited information available, a comparability of the methods used with the current CAM procedures could not be thoroughly performed. The following items were not provided in the laboratory reports and were therefore not assessed.

<u>October 2000:</u> Metals, VPH, PCB Aroclor, EPH, pesticides method blanks and LCS results, PCB Aroclor and pesticide surrogate recoveries, preparation methods used for organic analyses
<u>August 2000:</u> EPH and PCB Aroclor LCS results, PCB Aroclor surrogate recoveries for secondary column analyses, PCB Aroclor surrogate recoveries for secondary column analyses, metals method blank and LCS results, preparation methods used for PCB Aroclor analyses

  ✓ Limited pre-CAM data evaluation showed the following potential issues which may affect the usability of the pre-CAM data for the purposes of the RAO.

- <u>Issue #1:</u> The C_{11}-C_{22} aromatic hydrocarbon results from the EPH analyses of the August 2000 soil samples were generated using gas chromatography/mass spectrometry (GC/MS). This issue is considered a significant modification under the CAM and may not produce equivalent results to the method, as written.

The following samples were affected:

<u>Soil Samples:</u> SS-1, SS-2, SS-3, SS-4, SS-5, SS-6

<u>Justification for Using Data From Issue #1:</u> C_{11}-C_{22} aromatics were not detected in these soil samples. The results for these soil samples can still be used to achieve project objectives as method modifications performed by the laboratory would only adversely affect the quantitation of detected hydrocarbon ranges. The results can still be used to confirm the absence of C_{11}- C_{22} aromatics in these samples. It should be noted that only samples SS-1, SS-3 and SS-4 were used in the risk assessment to calculate exposure point concentrations (EPCs).

- <u>Issue #2:</u> All VPH and EPH hydrocarbon range results for the October 2000 soil samples were quantitated using GC/MS. This issue is considered a significant modification under the CAM and may not produce equivalent results to the methods, as written.

The following samples were affected:

<u>Soil Samples:</u> B-4/9-11, TP-1/7-8, TP-4/10, TP-6/8-9, TP-8/9, TP-11/9

<u>Justification for Using Data From Issue #2:</u> With the exception of sample TP-11/9, VPH hydrocarbon ranges were not detected in these soil samples. EPH hydrocarbon ranges were not detected in samples B-4/9-11, TP-4/10, TP-6/8-9, and TP-8/9. The soil samples with nondetect results for hydrocarbon ranges can still be

used to achieve project objectives as method modifications performed by the laboratory would only adversely affect the quantitation of detected hydrocarbon ranges. These results can still be used to confirm the absence of the hydrocarbon ranges in these samples. It should be noted that only samples B-4/9-11, TP-1/7-8, TP-4/10, TP-6/8-9 were used in the risk assessment.

- ✓ The VPH C_9-C_{10} aromatic result in sample TP-11/9 was significantly below the S-1/GW-2 and S-1/GW-3 standards. Since this sample was not used to calculate EPCs, the potential uncertainty in the C_9-C_{10} aromatic result does not affect the outcome or conclusions of this RAO.
- ✓ Although the EPH C_{11}-C_{22} aromatic hydrocarbon range was detected in sample TP-1/7-8, this result was just slightly above the quantitation limit and significantly below the S-1/GW-2 and S-1/GW-3 standards. Although uncertainty exists with respect to the C_{11}-C_{22} aromatic concentration in this sample, several other sample results exist for this hydrocarbon range to adequately quantify the EPCs for this hydrocarbon range in soil. Therefore, this uncertainty in the hydrocarbon range concentration in soil does not significantly affect the outcome or conclusions of this RAO.
- ✓ Sample TP-11/9 detected higher concentrations of the EPH hydrocarbon ranges and therefore the results of this sample may have been adversely affected by the method modification which could affect the quantitation. More recent soil samples were taken in 2008 and were analyzed for EPH under the CAM, and all EPH constituents were well below Method 1 S-1/GW-2 and S-1/GW-3 standards at these locations. In addition, sample TP-11/9 was not used to calculate EPCs. Therefore, this uncertainty in the hydrocarbon range concentrations in sample TP-11/9 does not significantly affect the outcome or conclusions of this RAO.

- Issue #3: All August 2000 soil samples were extracted using the sonication method which is no longer allowed in the CAM. Results for the EPH hydrocarbon ranges and PAHs may be biased low due to the use of a less efficient extraction method.

The following samples were affected:

Soil Samples: SS-1, SS-2, SS-3, SS-4, SS-5, SS-6

Justification for Using Data From Issue #3: Although several PAHs were detected in these samples, the results were significantly below the S-1/GW-2 and S-1/GW-3 standards. More recent soil samples were collected in 2006 and 2008 and were analyzed for EPH under the CAM. Therefore enough results were available without this potential low bias to adequately quantify the EPCs. Based on this information, the potentially-questionable sample results for SS-1 through SS-6 do not significantly affect the outcome or conclusions of this RAO. It should be noted that only samples SS-1, SS-3 and SS-4 were used in the risk assessment to calculate EPCs.

2: Discuss appropriateness of selected analytical methods' Reporting Limits (RL) to quantitatively support the disposal site's RAO.	Analytical reporting limits, as documented by the laboratory, meet or exceed sensitivity requirements required to assess level of risk and cleanup standards for contaminants of concern previously identified for this response action with the following exceptions: Exception #1: The nondetect results for dibenz(a,h)anthracene in samples Keith S-12/0-0.5 (0.98 mg/kg), TRC-43/1 (1.07 mg/kg), TRC-47/5 (7.03 mg/kg), TRC-49/5 (1.10 mg/kg), TF-N/6-7 (6.7 mg/kg), TF-S/5-6 (12 mg/kg), TF-N2/7.5-8 (6.9 mg/kg), TF-N4/8 (6.3 mg/kg) and TF-N6/7 (3.1 mg/kg) and benzo(a)pyrene in samples TRC-47/5 (7.03 mg/kg), TF-N/6-7 (6.7 mg/kg), TF-S/5-6 (12 mg/kg), and TF-N2/7.5-8 (6.9 mg/kg) were above the Method 1 S-1/GW-2 and S-1/GW-3 standards and/or the Method 1 S-2/GW-2 and S-2/GW-3 standards. Justification for this exception: Benzo(a)pyrene was detected in other soil samples at the Site and so this compound was considered a compound of potential concern. Therefore the elevated nondetect results in four samples did not adversely affect the outcome or conclusions of the RAO. Although the nondetect results for dibenz(a,h)anthracene in nine samples were above the Method 1 standards, an adequate data set (34 sample results) exists with dibenz(a,h)anthracene detected below the Method 1 standards or with nondetect results below the Method 1 standards to justify this compound not being a compound of potential concern. Therefore, the elevated nondetect results for these two PAHs do not significantly affect the outcome or conclusions of this RAO.

3: Discuss laboratory performance criteria and data quality indicators utilized to assess overall Analytical Accuracy (continuing calibration, laboratory control spikes, etc.) and Analytical Precision (laboratory duplicates, laboratory control spike duplicates, etc.)

CAM Data: Review Certification Form and discuss data quality issues noted in narrative. Non-CAM Data: Discuss data quality indicators used to assess data and any data quality issues noted.

( ) *Meets all CAM requirements and performance standards without qualification.*
(√) *Does not meet all CAM requirements and performance standards without qualification. If NO, discuss data usability implications*

No data quality issues were noted for the non-CAM data. Issues associated with the CAM data are summarized below.

Issue #1: Potential uncertainty exists for the zinc result in soil sample TRC-47/5 and the cadmium results in soil samples TRC-48/4 and TRC-49/5 due to variability in the laboratory duplicate results. The results for zinc in sample TRC-47/5 and cadmium in sample TRC-49/5 fall slightly below their MCP Method 1 soil standards. The result for cadmium in sample TRC-48/4 is slightly above the MCP Method 1 soil standards. The decision-making process may be affected by the uncertainty in these results as the actual results for zinc and cadmium may be higher and above the MCP Method 1 standards (in the case of samples TRC-47/5 and TRC-49/5) or lower and below the MCP Method 1 soil standards (in the case of sample TRC-48/4).

Justification for Issue #1: Although uncertainty exists with respect to the zinc and cadmium concentrations in these three samples from the Site, several other sample results exist for zinc and cadmium to adequately quantify the EPCs for these metals in soil. These metals were identified as compounds of potential concern. Therefore, this uncertainty in the zinc and cadmium concentrations in soil does not significantly affect the outcome or conclusions of this RAO.

Issue #2: Potential uncertainty exists for the TCLP results in samples TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7), TRC-53 (1,4,6), TRC-54 (1,4,7) and TRC-55/8 due to the use of a reduced sample size (50 grams) in the TCLP extraction. Since TCLP is a method-defined parameter, modification of the procedure is not allowed. The use of a reduced sample size may affect the representativeness of the sample results.

Justification for Issue #2: These samples were stockpiled and re-sampled by the contractor on site. The samples collected by TRC were used as a pre-screening measure for disposal. Therefore, the method modification does not significantly affect the outcome or conclusions of this RAO.

Data usability was not adversely affected for the remaining issues listed below as these issues either would not cause a significant bias to the reported values whereby the presence or absence of a Method 1 standard would change or the affected compounds were not considered to be contaminants of concern based on site history.

Accuracy:

Potential uncertainty exists for the PCB Aroclor, PAH and metals results in samples TRC-1/8 and TRC-10/9 due to greater than 70% moisture. Potential uncertainty exists for the PCB Aroclor identifications in the January 2009 soil samples due to the presence of altered PCB patterns; this uncertainty does not adversely affect the reported value for total PCBs.

Low Biases:

- Low recoveries of 4-chloroaniline in LCS and LCS Duplicate: TRC-10/4, TRC-23/8, TRC-24/7, TRC-41/5
- Low recoveries of aniline and 3,3'-dichlorobenzidine in LCS and/or LCS Duplicate: TRC-41/5
- Low recoveries of acetone, 2-butanone, 1,2,3-trichloropropane, and TCLP mercury in LCS and/or LCS Duplicate: TRC-23/8, TRC-24/7

High Biases:

- Zinc contamination in laboratory method blank:TRC-10/12, TRC-17/7, TRC-23 (1,8,12), TRC-24 (1,7,12), TRC-25 (1,5,8), TRC-26 (1,5,9), TRC-27 (1,5,7), TRC-28 (1,4.5, 7.5), TRC-29/8, TRC-37/7, TRC-39/12, TRC-41 (1,5,9), TRC-43 (1,4,8), TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7), TRC-53 (1,4,6), TRC-54 (1,4,7), TRC-55/8

Precision:

- High variability of antimony and lead in laboratory duplicate analyses:TRC-01/8, TRC-10 (1,4,9)
- High variability of barium, beryllium, cadmium, lead and mercury in laboratory duplicate analyses: TRC-28 (1, 4.5,7.5), TRC-29/8, TRC-41 (1,5,9), TRC-43 (1,4,8)
- High variability of barium and mercury in laboratory duplicate analyses: TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7)
- High variability of zinc in laboratory duplicate analyses: TRC-47 (1,8), TRC-48 (1,8), TRC-49 (1,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7)

4: Discuss laboratory performance criteria and data quality indicators utilized to assess overall Field Data Usability (sample preservation compliance, sample subsampling/compositing, field QC samples, etc.)

Sample Preservation:

Sample preservation procedures performed as per required methods for all soil sampling.

Field QC:

Accuracy: soil data assessed using MS/MSD analyses and cooler temperature blanks for all coolers.
Precision: soil data assessed using field duplicates, MS/MSD or MS/DUP analyses.

- Soil Field Duplicates: A5-2/1-3 (lead), TRC-17/1* (PAHs, metals), TRC-28/4.5 (metals, TCLP metals), TRC-39/1* (PAHs, metals), TRC-43/4 (PAHs, metals), TRC-48/4 (PAHs, metals, TCLP metals), TRC-54/4 (metals, TCLP metals)
- Soil MS/MSDs: UST-2N/5-7 (EPH, lead), A3-1/1-3 (lead), A3-3/1-3 (lead), TRC-10/9 (mercury, TCLP lead), TRC-1/5* (metals), TRC-17/5* (TCLP metals), TRC-23/8 (TCLP mercury), TRC-26/9 (PAHs, metals), TRC-28/7.5 (TCLP mercury), TRC-37/7 (PAHs, metals), TRC-39/4-5* (TCLP mercury), TRC-39/12 (TCLP metals), TRC-41/5 (metals), TRC-49/8 (PAHs, metals, TCLP metals), TRC-50/4* (metals, TCLP metals), TRC-53/4 (metals), TRC-55/8 (TCLP metals)

* Samples not included in RAO but were collected with other samples from this Site and therefore results of these field duplicates and MS/MSDs used to evaluate other samples applicable to this RAO.

Issues associated with the data are summarized below.

Issue #1: Potential uncertainty exists for the lead results in soil samples A3-4/1-3 and A5-3/1-3 due to variability in the field duplicate results. The results for lead in these samples fall slightly below their MCP Method 1 soil standards. The decision-making process may be affected by the uncertainty in these results as the actual results for lead may be higher and above the MCP Method 1 standards.

Justification for Issue #1: Although uncertainty exists with respect to the lead concentrations in these two samples from the Site, several other sample results exist for lead to adequately quantify the EPC for this metal in soil. In addition, lead was identified as a compound of potential concern. Therefore, this uncertainty in the lead concentrations in soil does not significantly affect the outcome or conclusions of this RAO.

Issue #2: Potential low bias exists for the arsenic results in soil samples TRC-47/5, TRC-48/4 and TRC-51/4 due to low recoveries in the MS/MSD analyses. The results for arsenic in these samples fall slightly below their MCP Method 1 soil standards. The decision-making process may be affected by the low bias in these results as the actual results for arsenic may be higher and above the MCP Method 1 standards.

Justification for Issue #2: Although low bias exists with respect to the arsenic concentrations in these three samples from the Site, several other sample results exist for arsenic to adequately quantify the EPC for this metal in soil. In addition, arsenic was identified as a compound of potential concern. Therefore, this low bias in the arsenic concentrations in soil does not significantly affect the outcome or conclusions of this RAO.

Issue #3: Potential high bias exists for the chromium and nickel results in soil sample TRC-10/4 due to high recoveries in the MS analysis. The results for chromium and nickel in this sample are slightly above their MCP Method 1 soil standards. The decision-making process may be affected by the high bias in these results as the actual results for chromium and nickel may be lower and below the MCP Method 1 standards.

Justification for Issue #3: Although high bias exists with respect to the chromium and nickel concentrations in this one sample from the Site, several other sample results exist for chromium and nickel to adequately quantify the EPCs for these metals in soil. Therefore, this high bias in the chromium and nickel concentrations in soil does not significantly affect the outcome or conclusions of this RAO.

Data usability was not adversely affected for the remaining issues listed below as these issues either would not cause a significant bias to the reported values whereby the presence or absence of a Method 1 standard would change or the affected compounds were not considered to be contaminants of concern based on site history.

Accuracy of Field QC:

Low Biases:

- Low recoveries of lead in soil MS/MSD: November 2008 soil samples
- Low recoveries of antimony, mercury and silver in MS: TRC-01/8, TRC-10 (1,4,9)
- Low recoveries of antimony in MS and/or MSD: TRC-17/7, TRC-23 (1,8,12), TRC-24 (1,7,12), TRC-25 (1,5,8), TRC-26 (1,5,9), TRC-27 (1,5,7), TRC-37/7, TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7), TRC-53 (1,4,6), TRC-54 (1,4,7), TRC-55/8

	• Low recoveries of arsenic in MS/MSD: TRC-47 (1,8), TRC-48 (1,8), TRC-50/7, TRC-51 (1,7), TRC-52 (1,4,7) • Low recoveries of benzo(b)fluoranthene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, fluoranthene, and indeno(1,2,3-cd)pyrene in MSD: TRC-37/7 • Low recovery of fluoranthene in MS: TRC-26/9 • Low recovery of thallium in MS: TRC-28 (1,4.5, 7.5), TRC-29/8, TRC-41 (1,5,9), TRC-43 (1,4,8) • Low recoveries of benzo(g,h,i)perylene and fluorene in MS or MSD: TRC-49/8 *High Biases:* • High recovery of lead in MS: A3-3/0-1, A3-3/1-3, A3-4/0-1, A3-4/1-3, A5-1/0.5-1, A5-1/1-3, A5-2/0.5-1, A5-2/1-3, A5-3/0.5-1, A5-3/1-3, A5-4/0.5-1, A5-4/1-3 • High recoveries of chromium, nickel and thallium in MS: TRC-01/8, TRC-10 (1,9) • High recoveries of mercury in MS and/or MSD: TRC-17/7, TRC-37/7, TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7) • High recovery of bromoform in MS: TRC-41/5 • High recoveries of TCLP arsenic in MS/MSD: TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7) ***Precision of Field QC (Field duplicate criteria: RPD ≤50 for soils):*** • High variability of lead in field duplicate pair: A3-3/0-1, A3-3/1-3, A3-4/0-1, A5-1/0.5-1, A5-1/1-3, A5-2/0.5-1, A5-2/1-3, A5-3/0.5-1, A5-4/0.5-1, A5-4/1-3, TRC-47 (1,5,8), TRC-48 (1,4,8), TRC-49 (1,5,8), TRC-50/7, TRC-51 (1,4,7), TRC-52 (1,4,7) • High variability of fluoranthene, indeno(1,2,3-cd)pyrene and pyrene in MS/MSD: TRC-49/8
5: Analytical Completeness of Data Used to Support the RAO: Discuss any data rejected pursuant to Appendix II, Rejection Criteria – Analytical Data Usability Assessments	• >90% analytical completeness achieved for all site data. • Gross failures of quality control in the metals analyses of soil samples were noted. ♦ Due to significantly low recovery (<30%) of selenium in the matrix spike analysis, the nondetect results for selenium in soil samples TRC-01/8 and TRC-10 (1,4,9) cannot be used for project objectives or decision-making purposes. Although the selenium results in these four samples are not usable for project objectives, several other sample results exist for selenium to adequately quantify the EPC for this metal in soil. In addition, selenium was identified as a compound of potential concern. Therefore, the unusable selenium results in these samples do not significantly affect the outcome or conclusions of this RAO.

Table DUA-1
Summary of Soil Samples and Parameters Included in RAO and Data Usability Assessment
Keith Junior High School, New Bedford, MA

Sample Location	VPH	EPH	PAHs	Pesticides	PCB Aroclors	Metals
Soil Samples: August 2000						
SS-1		X			X	X
SS-2		X			X	X
SS-3		X			X	X
SS-4		X			X	X
SS-5		X			X	X
SS-6		X			X	X
Soil Samples: October 2000						
B-4/4-6				X		X
B-4/9-11	X	X			X	
B-6/4-6					X	X
B-7/0-2				X		
B-7/2-4						X
M-2/4-6				X		X
TP-1/7-8	X	X		X	X	X
TP-3/8-10				X		X
TP-4/10	X	X				
TP-6/8-9	X	X		X	X	
TP-8/9	X	X			X	
TP-11/9	X	X			X	
Soil Samples: April 2006						
Keith S-1/1.5-4.75			X		X	X
Keith S-2/0.5-1.25			X		X	X
Keith S-5/1.5-2			X		X	X
Keith S-6/0-0.5			X		X	X
Keith S-7/0-0.5			X		X	X
Keith S-8/0-0.5			X		X	X
Keith S-9/0-0.5			X		X	X
Keith S-9/1.5-1.75			X		X	X
Keith S-10/0-0.5			X		X	X
Keith S-11/0-0.5			X		X	X
Keith S-12/0-0.5			X		X	X

Table DUA-1
Summary of Soil Samples and Parameters Included in RAO and Data Usability Assessment
Keith Junior High School, New Bedford, MA

Sample Location	VPH	EPH	PAHs	Pesticides	PCB Aroclors	Metals
Soil Samples: November 2008						
Lead-1						X (lead only)
Lead-2						X (lead only)
Lead-3						X (lead only)
Lead-4						X (lead only)
Lead-5						X (lead only)
UST-1S/5-7		X				
UST-1S/11-12		X				
UST-2N/5-7		X				X (lead only)
UST-2N/11-12		X				
UST-3E/11-12		X				X (lead only)
UST-4E/5-7		X				
UST-4E/11-12		X				
UST-4W/1-3		X				X (lead only)
UST-4W/5-7		X				
UST-4W/11-12		X				X (lead only)
UST-5C/5-7		X				
UST-5C/11-12		X				
Soil Samples: January 2009						
TRC-01/8			X		X	X
TRC-10/1			X		X	X
TRC-10/4	X (VOCs)	X (SVOCs)			X	X (plus TCLP metals)
TRC-10/9			X		X	X (plus TCLP lead)
TRC-10/12						X (plus TCLP lead)
TRC-17/7			X		X	X
TRC-23/1			X		X	X
TRC-23/8	X (VOCs)	X (SVOCs)			X	X (plus TCLP metals)
TRC-23/12			X		X	X
TRC-24/1			X		X	X

Table DUA-1
Summary of Soil Samples and Parameters Included in RAO and Data Usability Assessment
Keith Junior High School, New Bedford, MA

Sample Location	VPH	EPH	PAHs	Pesticides	PCB Aroclors	Metals
TRC-24/7	X (VOCs)	X (SVOCs)			X	X (plus TCLP metals)
TRC-24/12			X		X	X
TRC-25/1			X		X	X
TRC-25/5			X		X	X
TRC-25/8			X		X	X
TRC-26/1			X		X	X
TRC-26/5			X		X	X
TRC-26/9			X		X	X
TRC-27/1			X		X	X
TRC-27/5			X		X	X
TRC-27/7			X		X	X
TRC-28/1						X (plus TCLP metals)
TRC-28/4.5						X (plus TCLP metals)
TRC-28/7.5						X (plus TCLP metals)
TRC-29/8						X (plus TCLP metals)
TRC-37/7			X		X	X
TRC-39/12						X (plus TCLP metals)
TRC-41/1			X		X	X
TRC-41/5	X (VOCs)	X (SVOCs plus TPH)			X	X (plus TCLP metals)
TRC-41/9			X		X	X
TRC-43/1			X		X	X
TRC-43/4			X		X	X
TRC-43/8			X		X	X
TRC-47/1			X			X (plus TCLP metals)
TRC-47/5			X			X (plus TCLP metals)
TRC-47/8			X			X (plus TCLP metals)
TRC-48/1			X			X (plus TCLP metals)
TRC-48/4			X			X (plus TCLP metals)
TRC-48/8			X			X (plus TCLP

Table DUA-1
Summary of Soil Samples and Parameters Included in RAO and Data Usability Assessment
Keith Junior High School, New Bedford, MA

Sample Location	VPH	EPH	PAHs	Pesticides	PCB Aroclors	Metals
						metals)
TRC-49/1			X			X (plus TCLP metals)
TRC-49/5			X			X (plus TCLP metals)
TRC-49/8			X			X (plus TCLP metals)
TRC-50/7						X (plus TCLP metals)
TRC-51/1						X (plus TCLP metals)
TRC-51/4						X (plus TCLP metals)
TRC-51/7						X (plus TCLP metals)
TRC-52/1						X (plus TCLP metals)
TRC-52/4						X (plus TCLP metals)
TRC-52/7						X (plus TCLP metals)
TRC-53/1						X (plus TCLP metals)
TRC-53/4						X (plus TCLP metals)
TRC-53/6						X (plus TCLP metals)
TRC-54/1						X (plus TCLP metals)
TRC-54/4						X (plus TCLP metals)
TRC-54/7						X (plus TCLP metals)
TRC-55/8						X (plus TCLP metals)
Soil Samples: April 2009						
A3-3/0-1						X (lead only)
A3-3/1-3						X (lead only)
A3-4/0-1						X (lead only)
A3-4/1-3						X (lead only)
A5-1/0.5-1						X (lead only)
A5-1/1-3						X (lead only)
A5-2/0.5-1						X (lead only)
A5-2/1-3						X (lead only)

Table DUA-1
Summary of Soil Samples and Parameters Included in RAO and Data Usability Assessment
Keith Junior High School, New Bedford, MA

Sample Location	VPH	EPH	PAHs	Pesticides	PCB Aroclors	Metals
A5-3/0.5-1						X (lead only)
A5-3/1-3						X (lead only)
A5-4/0.5-1						X (lead only)
A5-4/1-3						X (lead only)
TRC-45A/0-1						X (lead only)
TRC-45A/1-3						X (lead only)
Soil Samples: September 2009						
TF-E/0-3	X	X				
TF-E/6-7	X	X				
TF-N/0-3	X	X				
TF-N/6-7	X	X				
TF-S/0-3	X	X				
TF-S/5-6	X	X				
TF-S2/0-3	X	X				
TF-S2/6-7	X	X				
TF-S3/6-7	X	X				
Soil Samples: November 2009						
TF-N2/3	X	X				
TF-N2/7.5-8	X	X				
TF-N4/3	X	X				
TF-N4/8	X	X				
TF-N6/7	X	X			X	X

APPENDIX F

PUBLIC NOTIFICATION LETTERS

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCsolutions.com

TRC Reference Number: 115058

May 26, 2011

Board of Health
City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Re: Notice of Availability
Response Action Outcome Report
Former Keith Junior High School/New Andrea McCoy Field
70 Hathaway Boulevard
New Bedford, Massachusetts

Release Tracking Number (RTN) 4-15685

To Whom It May Concern:

TRC has prepared this notification letter on behalf of the New Bedford School Department, to inform you of the availability of a Response Action Outcome (RAO) Statement Report for the above-referenced Site in New Bedford, Massachusetts. This notification is being submitted to you in accordance with the Massachusetts Contingency Plan, 310 CMR 40.1403(3)(f).

The RAO Report for the above-referenced property can be reviewed at the Massachusetts Department of Environmental Protection, Southeast Regional Office, located at 20 Riverside Drive in Lakeville, Massachusetts.

Sincerely,

TRC Environmental Corporation

David M. Sullivan, LSP, CHMM
Sr. Project Manager

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
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TRC Reference Number: 115058

May 26, 2011

Mayor Scott W. Lang
City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Re: Notice of Availability
Response Action Outcome Report
Former Keith Junior High School/New Andrea McCoy Field
70 Hathaway Boulevard
New Bedford, Massachusetts

Release Tracking Number (RTN) 4-15685

Dear Mayor Lang:

TRC has prepared this notification letter on behalf of the New Bedford School Department, to inform you of the availability of a Response Action Outcome (RAO) Statement Report for the above referenced Site in New Bedford, Massachusetts. This notification is being submitted to you in accordance with the Massachusetts Contingency Plan, 310 CMR 40.1403(3)(f).

The RAO Report for the above-referenced property can be reviewed at the Massachusetts Department of Environmental Protection, Southeast Regional Office, located at 20 Riverside Drive in Lakeville, Massachusetts.

Sincerely,

TRC Environmental Corporation

David M. Sullivan, LSP, CHMM
Sr. Project Manager