



**NBH South Terminal - Sampling and Analysis Plan**

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Hi Chet,

We reviewed the revised Sampling and Analysis Plan ("SAP") dated December 16, 2010, and have no additional comments. We approve the entire SAP. Please let me know if you have any questions.

Thank you.

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**SAMPLING AND ANALYSIS PLAN  
FOR  
SOUTH TERMINAL CDF  
AND  
ASSOCIATED DREDGE FOOTPRINT**

**SAP**

**COMMONWEALTH OF MASSACHUSETTS**

**New Bedford, Massachusetts  
December, 2010**

**Prepared by:  
Apex Companies, LLC  
New Bedford, Massachusetts  
Boston, Massachusetts**



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## 1.0 Introduction and Purpose

At the request of USEPA, this Sampling and Analysis Plan (SAP) has been prepared for sampling activities that will be performed to characterize environmental conditions at the proposed South Terminal Confined Disposal Facility (CDF) in New Bedford Harbor. Scoping meetings have been held to discuss the scope of USEPA's request. The first meeting was held at USEPA Region 1 headquarters on October 14, 2010. A subsequent teleconference was held on October 20, 2010. At these meetings, it was clarified that several different USEPA programs are requesting information, and that these programs may require different types of information to fully evaluate the proposed project. It is anticipated that this Sampling and Analysis Plan will meet the needs of the various agencies involved in the decision-making process.

### 1.1 Project Description

The project site is located within the inner portion of New Bedford Harbor in New Bedford, Massachusetts, as shown on **Figure 1**. A plan showing the proposed footprint of the facility is attached as **Figure 2**.

The proposed South Terminal CDF is a filled structure located adjacent to the shoreline that will be bounded by sheet piling, and capped with crushed stone. Approximately 1,200 linear feet of berthing space will be available at the facility. The area to the east and south of the CDF will be dredged from its current depth of between -1 and -6 Mean Lower Low Water (MLLW) to between -20 and -30 MLLW to accommodate vessels of various sizes. Portions of the existing South Terminal Basin would be dredged from its existing depth of -20 to -25 MLLW to a depth of -30 MLLW in order to construct a channel connecting the new South Terminal CDF boat basin to the federal turning basin north of South Terminal. The size of the facility as envisioned will be 28.25 acres.

Although the design process for the South Terminal CDF has not yet been completed, it is anticipated that both contaminated sediment and clean sediment are present within the proposed project footprint. As previously described the Commonwealth's September 24, 2010 submittal to USEPA, there are a number of potential scenarios by which the design could be completed. The following is a list of potential construction scenarios, and a description of the ways that that each construction scenario would be linked to the State Enhanced Remedy:

- Use of Clean Confined Aquatic Disposal (CAD) Cell Material as Fill for the South Terminal CDF;
- Use of Clean CAD Cell Material and Clean Material from Navigational Dredging as Fill for the South Terminal CDF;

- Use of Clean CAD Cell Material and Clean Material from Navigational Dredging and Contaminated Navigational Dredge Material as Fill for the South Terminal CDF;
- Use of Clean Material from the Navigational Dredging Fill for the South Terminal; and
- Use of Clean Material from Navigational Dredging and Contaminated Navigational Dredge Material as Fill for the South Terminal CDF.

Because of the multiple potential sources of material for fill at the proposed facility, a conservative set of assumptions from the above list was used so that sufficient data could be collected to cover multiple potential construction scenarios.

## **1.2 Document Purpose**

This sampling and analysis plan has been prepared by Apex Companies, LLC (Apex) on behalf of the New Bedford Harbor Development Commission (HDC) and the Commonwealth of Massachusetts for the purpose of investigating the proposed footprint (including upland, intertidal, and sub-tidal locations) of the South Terminal CDF in New Bedford Harbor, New Bedford, Massachusetts.

Due to the potential re-use of material within the construction footprint of the South Terminal CDF, additional data will be collected to characterize the dredge spoils that could be utilized for these purposes. The testing is intended to characterize the concentrations of contaminants within potential dredge areas, in order to provide additional information regarding potential temporary re-suspension of sediment during dredging operations. The testing is also intended to characterize levels of contaminants within existing resource areas (inter-tidal, sub-tidal, and salt marsh).

The testing is also intended to determine whether past use of the upland areas (within which a former textile factory operated prior to 1930 and possible coal gasification occurred) resulted in a release(s) of oil and/or hazardous materials that may need to be addressed prior to construction of the facility. This is relevant as Section 402 of the Clean Water Act relates to construction stormwater management, and characterization of the upland facility will help determine potential impacts to stormwater during construction. Additionally, characterization will determine whether there is hazardous waste, TSCA waste or solid waste present in order to determine proper management and disposal (if any) of the material, and will inform the impact of the project on the existing AUL already present on the facility (described in more detail later in the document). Upland areas will be characterized under M.G.L. c.21E via compliance with 310 CMR 40.0000 (The Massachusetts Contingency Plan), as necessary.

This document is intended to provide a work plan, which describes proposed sampling activities, sampling methods, laboratory parameters and field/laboratory quality

assurance/quality control (QA/QC) procedures, as well as sampling frequencies, and a sampling schedule. This Sampling Plan was requested by USEPA, and is intended to be used in the field during sampling activities for characterizing the upland, intertidal, and sub-tidal areas to be filled during the course of construction, as well as the sediment to be dredged for the project.

### **1.3 Sampling Strategy**

This SAP specifies the data collection activities that will be performed to establish baseline conditions at the South Terminal CDF site prior to construction.

The following is a summary of the objectives and scope of the SAP, which were stipulated to satisfy the concerns of specific regulatory programs within USEPA:

For the Upland Facility Construction:

- Sub-tidal and intertidal sediment sample collection at fifteen locations within the facility footprint. Sampling has been designed to characterize the extent of contamination of resources that will be impacted by construction, as well as other potential contaminants of concern (stipulated to satisfy the 401/404, RCRA and TSCA programs);
- Land based geophysical survey within the upland portions of the facility footprint to identify potential subsurface hazards, obstructions and possible sources of hazardous materials (stipulated to satisfy the RCRA program and M.G.L. c.21E);
- Eight environmental borings and up to 17 test pits within the upland portion of the facility footprint to investigate possible sources of hazardous materials on the land side portion of the site, including any areas of interest which the geophysical investigation may reveal (stipulated to satisfy the RCRA and TSCA programs and M.G.L. c.21E). A detailed rationale supporting the number and location of monitoring wells, borings, and test pits is included within Sections 3.2 and 4.4;
- The completion of eight soil borings as groundwater monitoring wells within the upland portion of the facility footprint and sampling of those monitoring wells to establish baseline groundwater quality prior to construction and filling of the South Terminal CDF (to satisfy the RCRA and TSCA programs and M.G.L. c.21E);
- Hydraulic conductivity measurements and tests from sediment collected from inside (sub-tidal and intertidal) and outside of the proposed facility footprint (some tested as-is, some pre-treated prior to testing) to calibrate a model of sediment transport from within the CDF (to satisfy the 401/404 and TSCA programs); and

- Modeling to determine the potential flux of impacted material from a completed South Terminal CDF (to satisfy the 401/404 and TSCA programs).

For the proposed dredge footprint:

- Sub-tidal sediment sample collection from forty-six sampling locations within the dredge footprint focused on delineating the horizontal and vertical extent of PCB and heavy metal contamination, as well as other potential contaminants of concern (to satisfy the 401/404, RCRA, and TSCA programs).

For air monitoring during the project:

- A baseline and construction air sampling program from four sampling stations to establish baseline conditions prior to construction activities (to satisfy anticipated local public concerns).

The following is a table summarizing the sampling outlined within the subsequent sections of this document:

**Table 1: SUMMARY TABLE OF SAMPLING WITHIN THIS DOCUMENT**

Purpose of Sampling Sampling Area USEPA Program	Media to be Sampled	Sampling Method	Locations	Samples to be Collected	Samples to Run	Samples Put on Hold	Analyses	Laboratory Detection Limits
Filled Footprint Sub-tidal/Intertidal 401/404, RCRA and TSCA	Sediment	Russian Peat Corer	10	One sample per foot to refusal.	0 to 1 foot.	All other samples.	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See Appendix C
	Sediment	Russian Peat Corer	5	One sample per foot to refusal.	0 to 1foot.	All other samples.	<i>0 to 1 foot:</i> PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). <i>All other samples:</i> PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See Appendix C
Facility Footprint Upland RCRA and M.G.L. c.21E	N/A	Geophysics	N/A	N/A	N/A	N/A	N/A	N/A
Facility Footprint Upland RCRA and TSCA and M.G.L. c.21E	Soil	Boring	8	Minimum one per boring.	Collected Samples.	N/A	PCB Aroclors (EPA Method 8082 With Non-Target ECD Peaks Reported), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). Asbestos by PLM (if necessary) and VOCs (EPA Method 8260, if necessary).	See Appendix C and N/A for Asbestos by PLM
Facility Footprint Upland RCRA and TSCA and M.G.L. c.21E	Soil	Test Pits	17	Minimum one per test pit.	Collected Samples.	N/A	PCB Aroclors (EPA Method 8082 With Non-Target ECD Peaks Reported), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). Asbestos by PLM (if necessary) and VOCs (EPA Method 8260, if necessary).	See Appendix C and N/A for Asbestos by PLM
Facility Footprint Upland RCRA and TSCA and M.G.L. c.21E	Ground water	Monitoring Well	8	One sample per monitoring well.	Collected Samples.	N/A	PCB Aroclors (EPA Method 8082 With Non-Target ECD Peaks Reported), SVOCs (EPA Method 8270C), and 13 Priority Pollutant Metals (EPA Method 6020A/7471), and VOCs (EPA Method 8260). MAEPH and MAVPH if necessary.	See Appendix C

Purpose of Sampling Sampling Area USEPA Program	Media to be Sampled	Sampling Method	Locations	Samples to be Collected	Samples to Run	Samples Put on Hold	Analyses	Laboratory Detection Limits
Facility Footprint Upland/Intertidal 401/404 and TSCA	N/A	Slug Testing	8	N/A	N/A	N/A	Slug Test	N/A
	Sediment	Russian Peat Corer	8 (2 mixed with additives)	8 samples (2 mixed with additives)	Collected samples.	N/A	ASTM 2434 (coarse-grained material) or ASTM D 5084 (fine-grained material), depending upon sample type plus grain size and porosity.	N/A
Facility Footprint Upland 401/404 and TSCA	N/A	Modeling	N/A	N/A	N/A	N/A	Visual Modflow	N/A
Dredge Area Sub-tidal/Intertidal 401/404, RCRA and TSCA	Sediment	Russian Peat Corer	31	One sample per foot to refusal.	0 to 1 foot.	All other samples.	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See Appendix C
	Sediment	Russian Peat Corer	10	One sample per foot to refusal.	0 to 1 foot.	All other samples.	<i>0 to 1 foot:</i> PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). <i>All other samples:</i> PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See Appendix C
	Sediment	Vibracore	5	One sample per foot to refusal.	All samples.	N/A	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), Copper, Chromium, and Zinc (EPA Method 6020A)	See Appendix C
Dredge Area Water Column 401/404, RCRA, and TSCA	Water Column	Kemmerer Sampler or Peristaltic Pump	4	12 samples (3 water depths per location)	All Samples.	N/A	Turbidity, PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), and 13 Priority Pollutant Metals (EPA Method 6020A/7471).	See Appendix C
Facility Footprint Air Monitoring TSCA	Air	Baseline	1	One sample per week for 3 weeks.	5 Samples (3 plus 1 blank and 1 dup)	N/A	10 PCB Homologues (EPA Method 1668A) Particulates (Real-Time Monitor)	0.1 ng/m3
	Air	During Construction	4 (3 onsite, 1 to southeast of site)	To Be Determined	6 Samples (4 plus 1 blank and 1 dup) per event	N/A	10 PCB Homologues (EPA Method 1668A) Particulates (Real-Time Monitor)	0.1 ng/m3

Sampling is proposed within the dredge footprint on a grid spacing of approximately 120 feet, and within the inter-tidal and sub-tidal portions of the proposed CDF filling area on a grid spacing of approximately 150 feet (**Figure 3** shows sub-tidal and inter-tidal sample locations). This grid spacing results in approximately sixty-one (61) sample locations within the sub-tidal and inter-tidal areas. Samples for 401 Water Quality Parameters are targeted to locations within the vicinity of either CSOs or stormwater discharge points are known or suspected of having existed at one point in time.

Assuming the contaminated thickness of material is an average of two (2) feet thick within the area to be dredged (which, for 15.39 acres, equates to approximately 49,700 cubic yards) and is an average of one (1) foot within the area to be filled (which, for 6.39 acres, equates to approximately 10,300 cubic yards), the average sample location frequency on a volumetric basis is approximately one sampling location per 1000 cubic yards of contaminated material (61 sampling locations/60,000 cubic yards), which is consistent with recommended sampling frequencies for 401 Water Quality Certifications for projects involving reuse of dredged sediment within the Commonwealth of Massachusetts. Please note that this only represents a ratio of sampling frequency to contaminated material. More than one sample will be collected at each sample location, and more than one sample will be analyzed at multiple locations (as outlined below).

Quality control measures will be utilized to ensure data quality during the sampling, documentation, and analysis portions of this program. Quality control procedures are discussed in the sample collection section of this document.

## **2.0 Project Organization and Responsibilities**

Apex Companies LLC will follow a well defined project management organization so that project goals are met during both the field sampling and the laboratory testing portions of the Sampling Plan. Project staff will be integrated into a project team, with individual members contributing their area of expertise to the overall sampling plan under the supervision of a single project manager.

### ***2.1 Project Organization and Key Personnel***

The personnel identified below are considered to be key members of the site characterization project team. The team will maintain an open communication line between the Client, Apex and the regulatory bodies which are engaged in the review process.

Mr. Jay Borkland is the Program Manager for the South Terminal CDF project at Apex Companies LLC. The Program Manager will be responsible for interacting with the regulatory bodies, and the client in resolving any issues which arise prior to and during the sample collection and analysis phase. Mr. Borkland will also ensure that the sampling plan is executed in conformance with this Plan through the Project Manager.

Mr. Chet Myers, P.E. is the Project Manager for the South Terminal CDF project and will oversee the overall project design including the site investigation. Mr. Myers will implement the geotechnical, geophysical, and environmental investigations of the project site. As Project Manager, he will also manage the analytical laboratories for the geotechnical, water, groundwater, sediment, and air samples collected as described in this document. The field staff will report directly to Mr. Myers.

## 3.0 Existing Information

### 3.1 Existing Sediment Data

Sediment sampling and analysis data in New Bedford Harbor, both within the footprint of the proposed facility (and associated dredge area), as well as within other locations between the Route 6 bridge and the New Bedford Hurricane Barrier, has been collected and reviewed in order to provide an indication of sediment characteristics in the proposed South Terminal CDF area. The New Bedford Harbor Development Commission collected multiple sediment samples during the New Bedford Harbor Phase III Navigational Dredging, completed in 2009. Sampling and chemical analyses were also conducted from multiple areas during the New Bedford Harbor Dredge – Phase II, completed in 2005. Additional data was collected and analyzed by USEPA during its New Bedford Superfund Site Remedial Investigation. The existing sediment characterization data indicates that the surficial sediment may contain elevated levels of TPH, metals, PAHs and PCBs. Tables containing historic data, as well as figures indicating the collection location of this data are attached as **Appendix A**.

The existing sediment characterization data is inadequate for the purposes of meeting the goals outlined above. Therefore, new data must be collected from within the proposed dredge area, and area to be filled, to adequately characterize the sediment to be dredged and disposed as well as the upland portions of the facility that will be filled and covered. The following sections discuss the sample collection and analysis protocols that will be performed in order to obtain the additional data required.

Historic information has indicated the presence of several current or former CSOs, current or former historic drain lines or potential locations of former CSOs or drain lines. The locations of five (5) existing or former drain lines/CSOs are shown on **Figure 3**. The locations of the five former or current lines are as follows:

1. One existing CSO discharges at the northern-most end of the existing South Terminal bulkhead.
2. One existing CSO discharges at the approximate mid-point of the existing South Terminal bulkhead.
3. A right-of-way for an existing drain line currently runs across the northern boundary of the footprint of the proposed facility.
4. Historic information indicates that a 72-inch drain line either currently or historically may have discharged at the corner of the southern end of the existing South Terminal bulkhead.
5. A 30-inch diameter drain line and former CSO discharges runs parallel to the southern boundary of the proposed facility.

These five existing or former drain lines/CSOs could have been historic sources of impacts to sediment.

### **3.2 Existing Upland Information**

The upland properties to be included in the South Terminal CDF were historically part of the Potomska Mill complex from the 1880's to the 1930's. The Potomska Mill complex supported the textile industry during this time period. The mill buildings have been demolished, and from about 1946 through 1966 the property and surrounding lots existed as urban, filled, undeveloped open space. The New Bedford Redevelopment Authority acquired the former mill complex in 1998, and subsequently subdivided it and sold off portions for redevelopment (the various parcels that are referred to as the "Standard Times Field Area"). The following four parcels of the former mill complex are included in the proposed South Terminal CDF (see **Figure 4**):

1. An undeveloped 9.2 acre parcel currently owned by the City of New Bedford (Map Number 25A/Lot Number 48);
2. Two adjacent undeveloped parcels totaling 3.4 acres owned by the Commonwealth of Massachusetts (referred to as a single site for the purposes of this document – (Map Number 25A/Lot Number 49 and Map Number 25A/Lot Number 53);
3. A 2.9 acre developed site currently owned by the Shuster Corporation (Map Number 31/Lot Number 263); and
4. A 6.4 acre undeveloped site currently owned by RIST LLC (a Limited Liability Corporation owned by Richard and Steven Shuster), commonly referred to as "the Shuster vacant lot" (Map Number 31/Lot Number 288).

Available historical information has been reviewed as part of this SAP including the following documents which are attached to this Plan as references:

- An EDR Radius map of the area, which includes research into local, state, and federal databases of known spills and releases, historic USGS maps of the area, historic aerial photos, and historic Sanborn Fire Insurance Maps (attached as **Appendix D**);
- Additional historic Sanborn Fire Insurance Maps of the area, dating from 1888 to 1995 (attached as **Appendix E**);
- A Class 3 Response Action Outcome for 16 Blackmer Street (one of the parcels to be included in the South Terminal CDF), prepared by Common Sense Environmental, for the Commonwealth of Massachusetts Department of Fish and Game, dated March 17, 2009 (attached as **Appendix F**);

- A Limited Environmental Site Assessment, prepared by CLC Consulting Group, for Mr. Stephen Shuster, for the Shuster Vacant Lot, dated April 28, 2006 (attached as **Appendix G**); and
- A Draft Brownfields Targeted Site Assessment (BTSA), prepared by Metcalf & Eddy, for USEPA Region 1, for the Standard Times Field Property, dated January 20, 2000 (attached as **Appendix H**).

The following is a summary of the existing information obtained from the above-mentioned reports:

### ***9.2 Acre City of New Bedford Property***

This property extends along the coast line of approximately ½ of the proposed facility. Historic information (see **Appendix F**) indicates that the high-water mark in this section of New Bedford Harbor has changed significantly since the early- to mid- 1800s. It is not clear whether the coastline has been improved via natural forces, or fill, or a combination of the two.

### ***3.4 Acre Commonwealth of Massachusetts Properties***

The Class 3 Response Action Outcome Statement (**Appendix F**) indicates that the Commonwealth of Massachusetts site has undergone assessment and closure activities under the Massachusetts Contingency Plan (MCP). The MCP Response Action Outcome (RAO) statement was prepared in March 2009 that included an Activity and Use Limitation (AUL) for a portion of the property. The AUL was implemented due to elevated residual levels of lead and polycyclic aromatic hydrocarbons (PAHs) in the shallow soils on the site. Conditions in the AUL include maintenance of a parking lot on the property to limit exposure potential to these soils. A number of test pits, borings, and monitoring wells were advanced during this investigation (see **Figure 4**), and samples were analyzed for VPH/EPH, VOCs, SVOCs, Metals, PCBs, Pesticides, Asbestos, and Cyanide.

- In general, contaminants of concern (COCs) for the Commonwealth of Massachusetts site include lead and SVOCs, which are typical COCs for urban sites that have been filled;
- The contamination detected on this property was attributed to the urban fill that was historically placed on this lot;
- Groundwater was encountered at depths ranging from approximately 3 to 5.5 feet below ground surface;
- A portion of the former Potomska Mills complex extended onto these two

properties, based on historic Sanborn Fire Insurance Maps (see **Figure 4**); and

- Polychlorinated biphenyls (PCBs) were detected in one groundwater sample collected at the Commonwealth of Massachusetts site; however, subsequent re-testing of the groundwater did not confirm the original testing results.

### ***2.9 Acre Shuster Corporation Site***

This parcel of land is currently incorporated into the existing South Terminal bulkhead. The majority of the site is paved. A 20,000 square foot building located on this parcel is currently operated by the Shuster Corporation. The Shuster Corporation supplies parts and industrial supplies to commercial and industrial entities. Products supplied include ball bearings, conveyors, compressors, couplings, oil filters, lubricants and dispensing equipment, oil recovery systems, gauges, hoses, fittings, and jet equipment. The building primarily operates as a warehouse; however, it is possible that some repairs may take place within the building.

### ***6.4 Acre Shuster Vacant Lot***

A significant portion of the footprint of the former Potomska Mills complex was located within the Shuster Vacant Lot (see **Figure 4**). Sanborn Fire Insurance maps indicate various structures on the property including what appears to be an above-ground storage tank (possible gasometer) and boilers that are indicative of possible coal gasification processes. Other site buildings contain notes that may indicate the presence of a furnace, and weaving buildings.

The mill buildings were demolished sometime between the 1930s and the mid-1940s. Reviewed information did not detail demolition activities and whether foundations or bottoms of structures (e.g., gasometer) were removed or just buried in place which was a common practice historically. Aerial photos from 1961 and 1974 show no activity at the site. An aerial photo taken in 1985 shows a depression filled with water (**Appendix D**). It is currently unclear as to the source of this water and this feature is not present in the aerial photos taken in 1992 or 1995.

The Schuster Vacant Lot has undergone assessment only (under a limited Environmental Site Assessment) and has not reached regulatory closure under the MCP. The following is a summary of relevant findings from the investigations conducted to date at the Shuster vacant lot:

- In general, contaminants of concern (COCs) for the Schuster vacant lot included lead and PAHs, which are typical COCs for urban sites that have been filled;
- Bulk asbestos containing material (ACM) was confirmed in one soil sample from boring B-6;

- The contamination detected on this property was attributed to the urban fill that was historically placed on this lot; and
- Groundwater was encountered at depths ranging from approximately 3 to 5.5 feet below ground surface.

Based on historical Sanborn Map information which indicates potential coal gasification activities (gasometer), the potential contaminants of concern include SVOCs, petroleum-related compounds, VOCs, cyanide, PCBs and metals. The detection of bulk asbestos in one sample may have been associated with piping wrap or other structures that were insulated such as the historical boilers and furnaces at the site. The potential COCs are incorporated into the Sampling and Analyses Plan for samples to be collected from the Shuster Vacant Lot portion of the site.

### ***Standard Times Field Property***

The BTSA performed by Metcalf & Eddy covered a 25.5 acre property referred to as the Standard Times Field Property which includes the site that is the subject of this Sampling Plan. Much of the information contained in this report is summarized above such as the Potomska Mills complex on the northern portion of the site and the site features that indicate coal gasification activities potentially occurred on the northern portion of the site. The following is a summary of other information contained in the report, some of which is described above.

- Lead and PAHs were detected above MCP Reportable Concentration (RCs) on the southern portion of the site. PCBs were also detected in groundwater above RCs in the same general area where stressed vegetation was observed. This area was subsequently the subject of additional environmental investigations under the MCP and an AUL was applied to the area where MCP regulatory standards were exceeded in soil and/or groundwater;
- PCBs, PAHs and metals were detected at concentrations below applicable MCP RCs at various locations across the property. The source of PCBs was not identified and the PAHs were attributable to coal and coal ash observed in the fill and historic operations which included coal use;
- Fill materials were observed on the southeastern portion of the site. A prior consultant indicated the fill may have been dredged material, however, M&E indicated the fill appeared to be indicative of demolition debris, possibly from the former mill complex. The report further indicated buried building materials, if present, may contain asbestos containing materials; and
- Other features such as a reported 150,000-gallon UST were indicated in the report. However, this UST is outside the site area subject to this Plan.

## 4.0 Sampling and Analytical Program

### 4.1 Dredge Areas

#### 4.1.1 Sample Collection

The proposed sample locations within the sub-tidal areas within the dredge footprint have been selected based on existing data in order to provide sufficient characterization information prior to construction. The following sub-tidal areas are anticipated to be effected by dredging:

- Areas of Dredging (Existing Depth Between -1 and -6 MLLW):
  - 9.0 acres of near-shore, sub-tidal area will be dredged to between -20 and -30 MLLW (6.65 acres to -20 MLLW and 2.35 acres to -30 MLLW); and
- Areas of Dredging (Existing Depth between -20 and -25 MLLW):
  - 6.39 acres of subtidal area will be dredged to -30 MLLW.

#### 4.1.2 Vertical Delineation

“Parent” material consists of a number of different combinations of silt, sand, gravel or rock. “Parent” geological material was formed and placed during the advancement and recession of the glaciers, approximately 13,000 years before industrial activity of man. Therefore, “parent” material would not normally be expected to contain anthropogenic contaminants. Contaminated material would typically have formed as a layer of fine-grained material that has deposited within New Bedford Harbor over the last several hundred years. Contamination within New Bedford Harbor, particularly the areas located to the south of the Coggeshall Street Bridge, has been shown to typically be present within the top one to two feet of dredge material.

When making a “Suitability Determination” for offshore disposal of “parent” material, U.S. Army Corps of Engineers (USACE) determines the delineation between “parent” and non-“parent” materials utilizing the following indicator constituents: PCBs, Copper, Chromium and Zinc. The concentrations of these indicator constituents indicate the depth at which the transition from “parent” to non-“parent” material occurs. Attached as **Appendix B**, are tables previously utilized to delineate between “parent” and non-“parent” material during the “Suitability Determination” process for CAD Cell #2.

In order to determine vertical delineation between “parent” and non-“parent” material within the proposed dredge footprint, five (5) vibracores will be advanced. The vibracores will be advanced to refusal, and the recovered material will be sampled at one-

foot intervals for PCBs (PCB Congeners by Modified EPA Method 8270C), Copper, Chromium, and Zinc (EPA Method 6020A). Sediment will be logged in the field in accordance with ASTM 2488-93 “Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).” The locations of the vibracores are indicated on **Figure 3**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

#### **4.1.3 Horizontal Delineation**

Other than the five (5) vibracore locations, discussed within Section 4.1.2, samples will be collected using a Russian Peat Corer. A Russian Peat Corer is a hand-operated, mechanical sampling device that utilizes a side-filling mechanism to collect uncompressed samples from wetlands and estuaries. The chambered-type corer collects samples which are not compressed or shortened during recovery, unlike samples taken with end-filling core samplers. The corer is deployed (in the closed position) to the desired depth. The corer is rotated clockwise 180° so that the sharpened edge of the chamber cuts a sediment core which is contained by the cover plate. During retrieval, the cover plate's counterclockwise rotation extrudes the undisturbed sample. This mechanism will be utilized to collect samples at one-foot intervals until refusal at locations indicated on **Figure 3**, except where a vibrocore sample is scheduled. Approximately 41 locations will be sampled utilizing a Russian Peat Corer.

The location of former CSOs and stormwater discharge points are noted on **Figure 3**. Samples have been targeted to analyze the areas immediately in front of these former and existing discharge points within the proposed dredge footprint in order to delineate any historic contamination associated with these points. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

#### **4.1.4 Sample Collection Method**

Samples will be collected at each sampling station until refusal. The sampling will be lead in the field by an experienced sediment sampler. This Field Operations Lead (FOL) will have discretion (within the parameters of this sampling plan) to make decisions in the field concerning the sampling program. Sampling will be conducted from a research vessel equipped with an “A-frame” and appropriate sampling and positioning equipment. As-built sample locations will be documented using a Global Positioning System (GPS).

Once the sampling vessel is in position, the as-built coordinates and water depth will be logged. The vibracore unit or the Russian Peat Corer will be deployed where noted on **Figure 3**. Samples will be collected at one-foot intervals.

### 4.1.5 Water Column Testing

In order to determine what risk to the environment may be posed by sediments suspended in the water column during construction activities, up to twelve water column samples will be collected at the site in four locations. The locations of these samples are indicated on **Figure 3**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**. During dredging, pile-driving, and filling activities it is expected that there will be a localized increase in the volume of suspended sediment in the water column. Water column samples will be collected to assess potential contamination in the water column that may affect the water quality at the site. Water samples will be analyzed for turbidity (utilizing a real-time turbidity meter) and PCBs (22 NOAA Congeners by Modified EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), SVOCs (EPA Method 8270C), and Total Petroleum Hydrocarbons (EPA Method 8015) (utilizing an analytical laboratory).

Water samples will be collected within proposed dredge area from approximately two (2) feet below the water surface, the approximate midpoint of the water column, and approximately two (2) feet off the bottom (i.e., two feet above the sediment) to provide a representative sample of pre-dredge conditions at the site. A discrete interval water sampling device such as a Kemmerer sampler or a peristaltic pump will be used to collect the water sample. Efforts will be made to ensure that there is not contamination from surface sheens or other sources while the sample is being collected or the device is being lowered into the water. The collection point will be recorded and noted using a portable GPS device. The water will be placed directly from the sampling device or pump tubing into clean laboratory supplied glassware, sealed and placed in a cooler and transported to the laboratory in accordance with Section 4.3.2 of this document.

## 4.2 Filled Facility – Sub-Tidal and Inter-Tidal Areas

### 4.2.1 Sample Collection

The proposed sample locations within the sub-tidal and inter-tidal areas have been selected based on existing data in order to provide sufficient characterization information prior to construction. The following sub-tidal and inter-tidal areas are anticipated to be effected by either filling or dredging:

- Areas of Proposed Filling:
  - 1.43 acres of intertidal area,
  - 4.73 acres of shallow, near-shore sub-tidal area; and
  - 0.18 acres of salt marsh will be filled during the construction of the facility.

### 4.2.2 Horizontal Delineation

Samples will be collected using a Russian Peat Corer. See Section 4.1.3 for a description

of this device. This mechanism will be utilized to collect samples at one-foot intervals until refusal at locations indicated on **Figure 3**. Approximately 15 locations will be sampled utilizing a Russian Peat Corer.

The location of former CSOs and stormwater discharge points are noted on **Figure 3**. Samples have been targeted to analyze the areas immediately in front of these former and existing discharge points within the proposed filling area in order to delineate any historic contamination associated with these points. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

### **4.2.3 Sample Collection Method**

Samples will be collected at each sampling station until refusal. The sampling will be led in the field by an experienced sediment sampler. This Field Operations Lead (FOL) will have discretion (within the parameters of this sampling plan) to make decisions in the field concerning the sampling program. Sampling will be conducted from a research vessel equipped with an “A-frame” and appropriate sampling and positioning equipment. As-built sample locations will be documented using a Global Positioning System (GPS).

Once the sampling vessel is in position, the as-built coordinates and water depth will be logged. The vibracore unit or the Russian Peat Corer will be deployed where noted on **Figure 3**. Samples will be collected at one-foot intervals.

## **4.3 Dredge and Fill Area Sampling Logistics**

### **4.3.1 Sampling Schedule**

The proposed sampling fieldwork is anticipated to be conducted over a three-week period. Chemical analysis will begin within the first week of sampling, and is expected to take approximately three weeks per sample. Sampling results will be submitted approximately two weeks after all analytical results have been reported.

### **4.3.2 Sample Handling**

Sampling equipment will be cleaned following standard decontamination procedures prior to individual sample collection. Sediment samples will be logged and visually characterized prior to being transferred to laboratory-supplied pre-cleaned and pre-preserved jars. Samples will be stored at 4 degrees Celsius in sample coolers on the vessel prior to shipment to the laboratory.

Samples for chemical analysis will be stored on ice from the time of sample collection until they are delivered to the laboratory. Samples will be collected and placed in the appropriate container for each analytical method and sealed with the lid. The sealed container will then be labeled with indelible ink, with the sample location, depth interval and time of collection. Sample containers will then be wrapped in protective shipping material (such as bubble wrap) and be placed in a cooler with ice. Ice will be placed in and around the samples to ensure uniform and quick chilling. Chemical ice shall not be used.

At the completion of daily sample collection events, all of the samples will be added to the Chain of Custody form with appropriate analytical testing methods noted. The Chain of Custody will be placed in a sealable watertight plastic bag, and affixed to the lid of the cooler. The cooler lid will be closed tightly, and taped shut with clear packing tape. Sample coolers will be shipped via courier or by overnight express service to an EPA certified laboratory for analysis. Standard quality control and quality assurance (QA/QC) samples (including field and matrix spike duplicates) will be collected as part of the sampling protocol.

#### **4.3.3 Sampling Quality Control**

QA/QC duplicate samples will be collected at the rate of up to one duplicate for every ten samples per sample matrix (with the possible exception of elutriate testing, depending upon field and laboratory requirements). Samples will be collected and labeled in such a manner as to make them easily associated with the primary samples.

Sediment samples which are to have duplicate samples generated from them, will be homogenized prior to being split into the primary and duplicate sample. Primary and duplicate samples will be transported and stored in the same manner. All duplicate samples will be run by the laboratory as “blind” samples.

Up to one half of the duplicate samples will be analyzed by a different analytical laboratory to provide analytical quality assurance for the project.

#### **4.3.4 Sample Analysis**

The analytical testing program will address chemical characterization of the sediment within the dredge footprint as well as within the inter-tidal and sub-tidal areas to be filled. Samples will be sent to an offsite chemical analysis laboratory. Samples will be hand-delivered or couriered to the laboratory in sample coolers in order to maintain appropriate sample conditions. Samples requiring physical characterization will be sent to a qualified geotechnical laboratory.

#### 4.3.4.1 Chemical Analysis

Sampling of five (5) vibracores will be performed as previously stipulated. Samples from within the dredge areas or the filled facility footprint, fifty-six (56) other locations, will be collected on one foot intervals from the surface to refusal for PCBs (22 NOAA Congeners by Modified EPA Method 8270C) at each sample location. Surface samples (samples collected from 0 to 1 foot) from fifteen (15) of the fifty-six (56) locations (five locations within the area to be filled and ten locations from within the dredge footprint) will also be analyzed for 13 Priority Pollutant Metals (EPA Method 6020A/7471), SVOCs (EPA Method 8270C), and Total Petroleum Hydrocarbons (EPA Method 8015); four (4) of the ten (10) locations from within the dredge footprint will also be locations for water column elutriate testing. Should the metals analyses indicate a concentration above the “20 times rule” TCLP analyses will be performed on that metal. The location of each suite of analyses from within the dredge areas or within the inter-tidal or sub-tidal areas of the filled areas will be performed is indicated on **Figure 3**.

Analytical parameters for the samples were selected based on guidelines established during discussions with USEPA.

Of the fifty-six (56) sampling locations, the surface samples (samples collected from 0 to 1 foot) will be analyzed immediately. Samples collected at deeper intervals will be put on ice at the laboratory. Once the delineation line between “parent” and non-“parent” material has been determined, the following procedures will be initiated:

1. The delineation between “parent” and non-“parent” material will be established using the data from the five (5) vibracores within the dredge areas;
2. Of the 41 other sampling locations within the dredge footprint, approximately 6 locations (which represents 10% of the total number of sampling locations) that contain the highest concentration of PCBs will be identified; and
3. In those 6 locations, samples collected from below the “parent”/non-“parent” horizon will also be run for PCBs, in order to confirm that PCBs have not infiltrated into “parent” material.

Standard turnaround time for all analytical parameters is 14 business days. Samples collected will be analyzed by a laboratory for a standard analytical turnaround time. Additionally, all sediment samples may be frozen to increase the holding time for up to one year. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

#### 4.3.4.2 Laboratory Methods

Samples will be sent to a laboratory. Chemical analytical methods will be performed in

accordance with USEPA protocol. Laboratory methods for the proposed analyses are shown above.

#### ***4.4 Filled Facility - Upland Areas***

Upland areas will be characterized under M.G.L. c.21E via compliance with 310 CMR 40.0000 (The Massachusetts Contingency Plan) as necessary. Upland areas will be characterized to assess the potential for previously undisclosed or undiscovered oil and/or hazardous material releases, as well as to characterize existing soils at the site, in order to evaluate potential impacts to storm-water during construction, as regulated under Section 402 of the Clean Water Act. Additionally, characterization will determine whether there is hazardous waste, TSCA waste or solid waste present in order to determine proper management and disposal (if any) of the material, and will inform the impact of the project on the existing AUL already present on the facility (described below).

Based on the review of existing upland historic information (outlined in **Section 3.2**), the following items have been identified as areas of concern that require investigation:

##### ***9.2 Acre City of New Bedford Property***

- Historic information indicates that this area has been filled either through natural deposition or via anthropogenic means. It is prudent to advance borings and/or test pits in this area to assess the quality of the fill material and determine the presence of PCBs (from historic deposition, or man-deposited material), metals, SVOCs, and possible asbestos containing materials (from possible filling using demolition debris from the former mill complex).

##### ***3.4 Acre Commonwealth of Massachusetts Properties***

- This area has been previously characterized by several soil borings and test pits (see **Figure 4**). One groundwater sample was collected from this area, which is the subject of a MCP AUL, indicated PCBs in groundwater at a level above its MCP regulatory standard. The TSCA program has indicated that additional assessment of the presence of PCBs in groundwater is needed to confirm or rebut the presence of PCBs in groundwater.

##### ***2.9 Acre Shuster Corporation Site***

- This parcel is an active commercial/industrial site where lubricants, cleaning products, fuels, and other potential contaminants have been identified as materials provided by the current business. This area should be assessed to determine whether activities in this area have impacted soil and/or groundwater quality; and

- The warehouse has loading docks at each end of the building where the aforementioned materials are loaded and unloaded. While spills have not been identified in these areas, subsurface explorations area recommended to assess potential impacts to the subsurface.

#### ***6.4 Acre Shuster Vacant Lot***

- The former Potomska Mills complex is a potential source of impacts to the environment. Existing information did not indicate what oils and/or hazardous materials were used at the mill, however, dyes used in the textile industry could contain metals and machinery could have been cleaned using solvents containing VOCs. PCBs are potential contaminants that could have been present at the facility in transformers. SVOCs and VOCs are typical contaminants associated with former coal gas holders or coal bins, and petroleum hydrocarbons could have been used as a fuel source for the boilers and furnaces, etc., asbestos containing materials may have been present for piping insulation, gaskets, and other types of materials for insulation;
- Potential impacts to the subsurface at the former Potomska Mills may have occurred beneath the former floors as the integrity and/or composition of former flooring is not known and through floor drains or possible sumps. There is also the potential for buried foundations that are coated and/or contain asbestos containing materials. Areas within this area and across the site may have been filled with demolition debris from the former mill complex;
- As mentioned in the previous bullet, asbestos containing materials may have been associated with debris from the demolition of the facility that may have been placed within the foundation of the buildings. Pipe runs for the building(s) may also have had asbestos insulation;
- At least one structure noted on the Sanborn Fire Insurance Maps of the former mill complex appears to be an above-ground storage tank that was possibly a gasometer (a gas holder). It was not uncommon during decommissioning of these structures to bury the base of the gas holders in place. Soil and groundwater quality in the area of this apparent tank should be assessed as well as the general quality of the fill material across the site;
- Areas either identified as, or appear to be, a boiler room, machine shop, and engine room (as noted on the Sanborn Fire Insurance Maps) should be assessed;
- An unidentified depression, shown on a 1985 aerial photograph, that appears to be filled with water should be investigated to assess soil and groundwater quality in this area; and
- Pipe runs associated with the facility could be potential sources of asbestos

containing material and should be assessed.

***Standard Times Field Property***

- This study area included adjacent lots as well as the site properties summarized above. Of note were observations of fill materials by others on the south-southeast portion of the site that reportedly contained possible demolition debris that may be related to former mill buildings. Soil and fill quality should be assessed in the area of the site.

Based upon these areas of concern, a series of subsurface explorations, including a geophysical investigation, test pits, borings, and monitoring wells are proposed below, as outlined on **Figure 4**, and as described in more detail in the following sections.

<b>Test Pits</b>		
<b>Location Identification</b>	<b>Area of Concern</b>	<b>Rational</b>
TP1, TP2, TP3, TP8 and TP12	Mill weaving complex	Assess potential impacts by former machinery, oils, etc. associated with historical mill weaving operations. Assess whether building foundations have been left in place and quality of the fill material.
TP4, TP6 and TP7	Boiler Room, Machine Shop, Engine Room.	Area where petroleum-related products may have been used and may contain buried structures and vessels. Assess quality of fill in this area.
TP11, TP13, TP14 and TP15	Large circular structure that appears to be former AST and other possible tank structure. May have been gasometer(s).	Coal gasification activities may have occurred at site as indicated by gasometer. Assess whether base of structures have been buried in place, and the presence of waste products and building debris. Assess quality of fill in this area.
TP9 and TP10	Former weaving building and adjacent area. Former building that covers significant portion of site.	Characterization of quality of fill materials is lacking, and processes within historic building that presumably used oils, lubricants and potentially hazardous materials.
TP5, TP16 and TP17	East-southeastern area of site – reported demolition debris in fill	Area where prior reports indicate filling with possible demolition debris from former mill complex. Assess quality of fill in this area.
<b>Test Borings/wells</b>		
B1 and B2	Area of loading docks at Schuster warehouse	Assess the potential for possible spills of oil and/or hazardous materials.
B3 and B4	Areas of Boiler Room, Machine Shop, Engine Room.	Evaluate soil and groundwater quality in area of and adjacent to former structures.
B6	Downgradient/adjacent to large structure that appears to be an AST and possible gasometer	Evaluate soil and groundwater at in area of former structures
B5 and B7	In area of PCB detection in groundwater during prior work and downgradient location of former mill complex	Evaluate soil and groundwater quality in area where PCBs were detected in groundwater during prior work at the site and downgradient of former structures.

#### 4.4.1 Geophysical Investigation

A geophysical investigation is a non-intrusive means of quickly gathering subsurface information, over a large area, on subsurface anomalies/structures that may contain and or be indicative of contamination, including asbestos-covered piping and other building debris possibly containing asbestos that may not be located within the former building footprint or other targeted locations for investigation as well as remnants of buried tanks and fill areas containing potentially unsuitable materials.

Geophysical investigations will be performed on the upland areas of the South Terminal CDF. The geophysical survey will be conducted of the entire property using Time Domain Electromagnetics (TDEM) followed by Ground Penetrating Radar (GPR). GPR will be used in conjunction with TDEM data to better characterize electromagnetic anomalies. The purpose of the investigation is to provide information on the character and conditions of the subsurface within the boundaries of the proposed project. The information will allow:

- Hazard screening of the soils underlying the project site and targeting of borings and test pits in areas where geophysical signatures suggest hazardous materials (if any are found) may exist; and
- Utility and other obstruction identification of the uplands prior to placement of fill material.

The investigation will aid in determining whether any infrastructure which may have serviced the mill remains below the ground surface. Geophysical methods may reveal the presence of underground storage tanks, metallic pipelines, and extent of buried debris, foundations, and voids. As previous investigations at the site have identified bulk ACM, which is likely associated with building demolition debris, it is anticipated that buried debris would be the likeliest location for the presence of any additional ACM onsite. The geophysical survey information will be used with complementary geotechnical data in characterizing the subsurface site conditions. The geophysical information will be used in conjunction with the historical site information gathered from the review of the readily-available existing information outlined in **Section 3.2**.

During the geophysical investigation and subsequent test pit program, observations will be made as to the presence of bulk ACM. Following guidance contained in draft regulations prepared by the Massachusetts Department of Environmental Protection Bureau of Waste Prevention and Waste Site Cleanup (dated October 11, 2007), Apex will visually survey the property for visible asbestos source material (VASM) including but not limited to abandoned building components and structures. Should VASM or suspected VASM be observed, a sample will be collected to confirm its presence. Confirmation will include submission of a sample for analysis by Polarized Light Microscopy (PLM) at an appropriate laboratory. Should ACM be confirmed, Apex will estimate the volume of the ACM. If required, Apex will notify the City of New Bedford,

and an asbestos removal action will be undertaken with approval from the Department of Environmental Protection and in accordance with other applicable State and local requirements.

#### **4.4.2 Sample Collection**

Test pits and soil borings (which will be completed as monitoring wells) will be advanced in order to assess selected target areas for potential impacts to soil and groundwater or to determine whether construction-debris related asbestos is present. The location of test pits and soil borings area shown on **Figure 4**, and have been located in order to investigate the areas of concern as noted in **Section 4.4**.

##### **4.4.2.1 Test Pits**

Approximately 17 test pits will be excavated to assess potential target areas identified during the geophysical survey and historical information review. Test pits will be excavated using a backhoe capable of excavating to depths approximating the water table (reported at depths up to approximately 10 feet). Soil samples will be collected for field screening using DEP's jar headspace screening method. The material removed from the test pits, side-walls of the test pits, and the bottom of test pits will be observed for visual and olfactory evidence of contamination, and for possible materials that appears to be ACM. The soil samples will be screened for total VOCs using a photo-ionization detector (PID). Samples exhibiting PID readings and/or visual and/or olfactory evidence of contamination will be collected for laboratory analysis. If potential contamination is not observed, a sample will be collected from immediately above the saturated zone or from fill materials. Upon completion, each test pit will be backfilled with the excavated soils in the general sequence the soils were removed. Test pit logs will be prepared detailing the subsurface conditions encountered. Each test pit will be recorded at the time of excavation with coordinates in NAD 83 State Plane, Massachusetts Mainland Zone, and shown on **Figure 4**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

##### **4.4.2.2 Test Borings and Monitoring Wells**

The drilling program will include the installation of eight (8) soil borings to assess soil and groundwater quality conditions in areas of concern identified during the geophysical survey and/or historical information review, and in areas of concern identified during the test pit program. Test borings/monitoring wells will be located on the site in both upgradient and downgradient positions. The borings will be completed as monitoring wells. Groundwater quality data will be used to assess impacts to groundwater due to historical and/or current site activities and will provide a baseline for future long term monitoring. The monitoring wells will also be used to gauge depth to water across the

site area.

Test borings will be advanced using conventional hollow-stem auger drilling methods. Soil samples will be collected continuously using a two foot long split spoon sampler. Each sample will be logged by Apex personnel and placed in a clean glass jar. Each sample will be screened in the field using DEP's jar headspace method. One soil sample from each boring will be selected for laboratory analyses as cited on **Table 1** in **Section 1.3**. Samples will be selected based on PID readings and visual and olfactory observations that indicate potential contamination. Should evidence of contamination not be observed, a sample will be selected from fill materials immediately above the groundwater table/smear zone.

Monitoring wells will be installed at each location that encounters groundwater. Monitoring wells will be constructed with two-inch diameter PVC materials. Well screens will be at least five to 10 feet long and will be set to span the water table observed during drilling. Well screen placement will consider tidal fluctuations. Newly installed monitoring wells will be surveyed to a MLLW datum. Previously installed monitoring wells that are located by Apex will be included in the survey and tied into MLLW datum by the survey.

Borings and monitoring well locations be located using NAD 83 State Plane Coordinates Massachusetts Mainland Zone, at the time of installation with a portable GPS. The locations of the proposed borings are shown on **Figure 4**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

#### **4.4.2.3 Groundwater Monitoring**

One initial sampling will include the eight (8) newly installed monitoring wells. The resulting data will be used to establish base-line conditions.

Depending on the contaminants of concern that are indentified during the soil investigation portion of the sampling and characteristics of the fill material used within the CDF, the monitoring wells will be sampled and analyzed for PCB Aroclors (EPA Method 8082 With Non-Target ECD Peaks Reported), 13 Priority Pollutant Metals (EPA Method 6020A/7471), SVOCs (EPA Method 8270C), and Total Petroleum Hydrocarbons (EPA Method 8015). Dependent upon the results of screening of soil at test pits and monitoring wells, groundwater samples may also be analyzed for VOCs (via EPA Method 8260). A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

#### **4.4.3 Sample Handling**

Sampling equipment will be cleaned following standard decontamination procedures

prior to individual sample collection. Sediment samples will be logged and visually characterized prior to collection in laboratory-supplied pre-cleaned and pre-preserved jars. Samples will be stored at four (4) degrees Celsius in sample coolers on the vessel prior to shipment to the laboratory.

Samples for chemical analysis will be stored on ice from the time of sample collection until they are delivered to the laboratory. Samples will be collected and placed in the appropriate laboratory-provided sample container for each analytical method and sealed with the lid. The sealed container will then be labeled with indelible ink, with the sample location, depth interval and time of collection. The sample container will then be wrapped in protective shipping material (such as bubble wrap) and be placed in a cooler with ice. Ice will be placed in and around the samples to ensure uniform and quick chilling. Chemical ice shall not be used.

At the completion of daily sample collection events, all of the samples will be added to the Chain of Custody form with appropriate analytical testing methods noted. The Chain of Custody will be placed in a sealable watertight plastic bag, and affixed to the lid of the cooler. The cooler lid will be closed tightly, and taped shut with clear packing tape. Sample coolers will be shipped via courier or by overnight express service to an EPA certified laboratory for analysis. Standard quality control and quality assurance (QA/QC) samples (including field and matrix spike duplicates) will be collected as part of the sampling protocol.

#### **4.4.4 Sampling Quality Control**

QA/QC duplicate samples will be collected at the rate of up to one duplicate for every ten samples per sample matrix. Samples will be collected and labeled in such a manner as to make them easily associated with the primary samples.

Sediment samples to be used for duplicate samples will be homogenized prior to being split into the primary and duplicate samples. Primary and duplicate samples will be transported and stored in the same manner. All duplicate samples will be run by the laboratory as “blind” samples.

Up to one half of the duplicate samples will be analyzed utilizing a different analytical laboratory to provide analytical quality assurance for the project.

#### **4.4.5 Sample Analysis**

Samples will be sent to an offsite chemical analysis laboratory. Samples will be hand-delivered or couriered to the laboratory in sample coolers in order to maintain appropriate sample conditions. Samples requiring physical characterization will be sent to a qualified geotechnical laboratory.

## 4.4.5.1 Chemical Analysis

### 4.4.5.1.1 Soil

At a minimum one, soil sample(s) will be selected from each boring and each test pit for laboratory analyses.

For test pits, soil samples will be collected from the sidewalls of the excavation and/or from the excavator bucket so that a vertical profile of each test pit can be developed. The depth of each sample will be measured using a six-foot ruler or weighted tape measure and changes in soil type will be noted. Samples will be field screened for total VOCs using a PID following MADEP's jar headspace screening method. Soil samples will be selected based on depth and strata changes, fill type, color or grain size. Samples exhibiting PID readings and/or visual and/or olfactory evidence of contamination will be collected for laboratory analysis. If no visual or screening evidence of contamination is observed then soil samples will be collected considering depth, strata changes and the vertical distribution of prior samples so that samples from varying depths will be collected to support a risk characterization.

For soil borings, soil samples will be collected continuously using a two foot long split spoon sampler. Each sample will be logged by Apex personnel and placed in a clean glass. Each sample will be screened in the field using DEP's jar headspace method. The soil sample selection process will be consistent to the selection process employed for the test pits.

Selected soil samples will be submitted for the 13 Priority Pollutant Metals (EPA Method 6020A/7471), PCB Aroclors (EPA Method 8082 With Non-Target ECD Peaks Reported), total petroleum hydrocarbons (EPA Method 8015), and semi-volatile organic compounds (SVOCs by Method 8270C). If deemed necessary, soil samples will be submitted for extractable petroleum hydrocarbons (Massachusetts Method MAEPH) and/or volatile petroleum hydrocarbons (Massachusetts Method MAVPH) including the target compounds, where applicable. If elevated headspace readings are detected then the soil sample will be submitted for volatile organic compounds (VOCs by EPA Method 8260). If metals analyses indicate concentrations above the "20 times rule" TCLP analyses will be performed on the detected constituent exhibiting the elevated concentration. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1 in Section 1.3**.

### 4.4.5.1.2 Groundwater

Each monitoring well will be developed and allowed to reach equilibrium with the surrounding aquifer before sampling. Low-flow sampling will be used to minimize turbidity in each sample. Groundwater indicator parameters, including turbidity, pH,

conductivity and temperature will be monitored during monitoring well development and purging. Each groundwater sample will be analyzed for the 13 Priority Pollutant Metals (field filtered prior to preservation) (EPA Method 6020A/7471), PCB Aroclors (EPA Method 8082 With Non-Target ECD Peaks Reported), total petroleum hydrocarbons (EPA Method 8015), TPH (EPA Method 8015), SVOCs (EPA Method 8270C) and VOCs (EPA Method 8260). If elevated levels of petroleum contamination are detected in soil samples, then groundwater samples may be collected and submitted for EPH (Massachusetts Method MAEPH) and VPH (Massachusetts Method MAVPH) analyses.

Analytical parameters for the samples were selected based on guidelines established during discussions with USEPA. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

Standard turnaround time for all analytical parameters is 14 business days. Samples collected will be analyzed by a laboratory for a standard analytical turnaround time. Additionally, all sediment samples may be frozen to increase the holding time for up to one year (with the exception of VOC parameters).

#### **4.4.5.2 Laboratory Methods**

Samples will be sent to a laboratory. Chemical analytical methods will be performed in accordance with USEPA protocol. Laboratory methods for the proposed analyses are shown above.

### ***4.5 Ambient Air Monitoring***

To ensure protection of public health, ambient air monitoring will be conducted prior to, and during the construction of the South Terminal CDF. The purpose of the program is to quantify the amount and concentrations, if any, of particulates generated at the site or during construction as well as PCBs which may volatilize from sediments during the dredging or during filling operations associated with the South Terminal CDF. This data will be provided to the EPA for their use in tracking the cumulative exposure budgets of receptors within the harbor, and be used to initiate proper responses to mitigate or reduce potential PCB exposure risks. To achieve this goal, monitoring locations will be established in the vicinity of the proposed CDF.

#### **4.5.1 Monitoring Stations**

One background air monitoring station will be erected at the site, at a location to be determined in the field. Construction air monitoring stations will be erected in four locations surrounding the South Terminal CDF site (one on the northwest, southwest, and northeast sides of the facility, and one to be located to the southeast, on the Hurricane

Barrier) in a configuration which will account for anticipated seasonal prevailing wind directions, as shown on **Figure 4**. Previous studies and plans for the New Bedford Harbor Superfund site have identified the seasonal prevailing wind directions, which would affect the transportation of any volatilized PCBs they are listed below:

- Summer – prevailing winds are from the South and Southwest, and would carry contaminants North or Northeast;
- Fall – Prevailing winds are from the Northwest, and South/Southwest;
- Winter – Prevailing winds are from the Northwest, with secondary peak winds from the Northeast and Southeast; and
- Spring – Prevailing winds are transitional, but trend from the Northwest and East.

The preliminary locations construction air monitoring locations are shown on **Figure 4**. Prior to installation, the installation site will be inspected, to ensure that no obstructions or impediments (i.e. buildings, trees etc) exist at that location which may adversely affect the validity of the data collected at that location by interrupting the wind flow direction. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

#### **4.5.2 Monitoring Station Sampling Frequency**

Background sampling will be conducted at one location onsite and will consist of three 24-hour samples collected on days on three consecutive weeks for PCB analysis. Additionally, background sampling for particulates will be conducted by monitoring utilizing a real-time dust meter for 8-hour intervals on three separate occasions on three consecutive weeks. The background sampling location has not yet been determined, and will likely depend on the prevailing wind conditions at the time of sampling.

The frequency of sampling for PCBs in air at the four construction air monitoring locations will be determined at a later date. Real-time monitoring utilizing a dust meter will be conducted during construction. After the full sampling program results have been gathered, a more detailed construction air monitoring plan will be prepared and submitted for USEPA review, at which time a construction air monitoring frequency will be proposed.

Previous reports from the Superfund site show that the major source of airborne PCB's in the New Bedford area to be the source points in the upper harbor. Consequently, the relatively low concentrations revealed in the sediments in previous investigations of the area of The South Terminal CDF suggest that volatilization releases from the sediments during construction of the CDF and dredging would not be significantly different from background levels. If air sampling confirms there is no or little change in ambient air PCB concentrations, a reduction in the sampling frequency may be proposed.

Samples will be run for 10 PCB Homologues (EPA Method 1668A).

## **5.0 Hydraulic Conductivity**

In order to assess hydraulic conductivity at the facility for future modeling purposes, several analyses will be conducted. Slug tests (either rising-head or falling-head) will be performed in each monitoring well to evaluate hydraulic conductivity across the facility. In addition, up to two samples of the sediment that will be used as fill within the facility will be collected during sampling activities and up to four samples will be collected from the intertidal and sub-tidal areas that are anticipated to be filled. Sample locations will be documented using a portable GPS.

Samples of the intertidal and sub-tidal areas will be collected using the vibracore sampling vessel. The vibracore will be used to collect four (4)-inch diameter sediment cores that will be sealed immediately upon retrieval to minimize disturbance. If the vibracore is unsuccessful, a comparable method will be utilized to collect an undisturbed sample. If it is not possible to collect undisturbed samples, a sample will be collected with the least disturbance possible, and the sample will be reconstituted in the laboratory.

The sediment samples will be labeled (top and bottom, sample interval and date collected) and maintained in an upright position during transport to a materials testing laboratory where either constant head or falling head measures of hydraulic conductivity will be performed. Each sediment sample will also be analyzed for porosity and grain size to aid in the determination of hydraulic conductivity values.

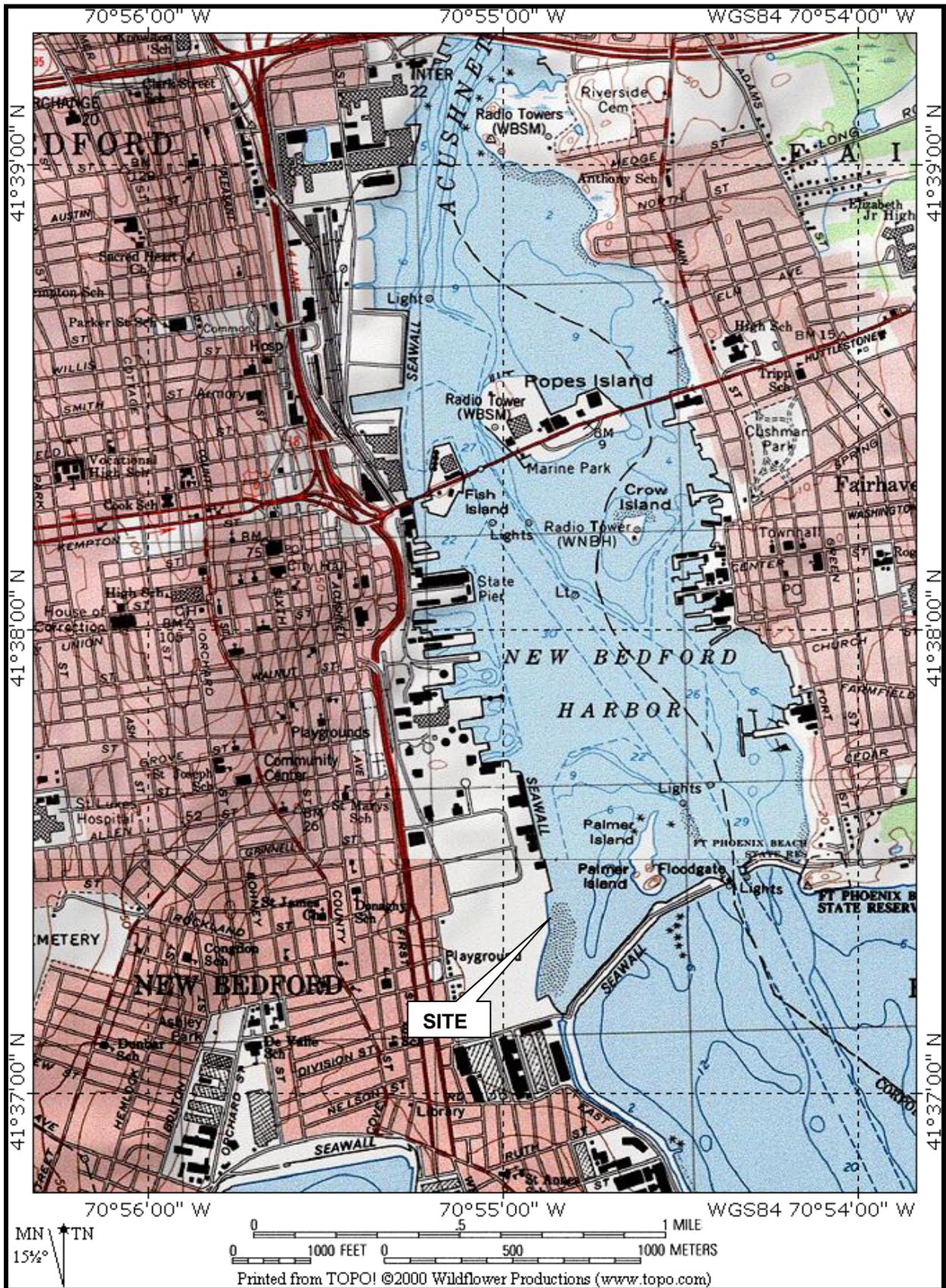
Additionally, up to two sediment samples will be collected and treated with additives anticipated to be utilized during construction to stabilize the sediment prior to placement within the CDF. These additives potentially include: granular material, lime, and cement. After mixture and curing (if necessary) is complete, a falling head and/or constant head hydraulic conductivity test will be conducted on the stabilized sediment. Either ASTM 2434 or ASTM D 5084 will be performed to determine hydraulic conductivity of sediment samples.

## **6.0 Groundwater Modeling**

In order to simulate the potential for contaminant flux out of the South Terminal CDF, groundwater modeling of the proposed CDF will be performed using Modflow software. The basis of the model will be similar models used by USEPA when determining potential contaminant flux out of similar CDFs either conceived or constructed by USEPA for the New Bedford Harbor Superfund remedy. Input elements of the model will include existing information regarding soil beneath the facility, hydraulic conductivity within the existing substrate, hydraulic conductivity of sediments to be placed within the

CDF, as well as the contaminant levels detected in soil and groundwater at the site and within sediments planned to be placed within the CDF. The focus of the modeling will be to estimate contaminant flux from impacted sediment placed within the CDF into New Bedford Harbor. Modeling results will be summarized. Where applicable, modeling assumptions will be identified and explained.

# **FIGURE 1**



**Figure 1: Site Location Map**  
 South Terminal CDF Proposed Location  
 City of New Bedford, New Bedford, Massachusetts

## **FIGURE 2**

1 WAMSUTTA STREET  
SUITE 8  
NEW BEDFORD, MA 02740  
(508) 996-9828

184 HIGH STREET  
SUITE 502  
BOSTON MA 02110  
(617) 728-0070

**REVISIONS**

NO.	DATE	DESCRIPTION

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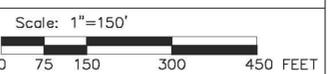


**PREPARED FOR:**

THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
NEW BEDFORD,  
MASSACHUSETTS

**DRAWING TITLE:**

SOUTH TERMINAL  
MARINE  
INFRASTRUCTURE PARK  
PROPOSED BULKHEAD



Date 3/24/10	Drawing No.  P-4
Proj. Mgr. JAB	
Design CWM	
Check CHM	
Drawn GCD	
Job. No. 6690	
Last Rev. 8/23/10	

## **FIGURE 3**



184 HIGH STREET  
SUITE 502  
BOSTON MA 02110  
(617) 728-0070

REVISIONS

#	DATE	DESCRIPTION
1	10/28/10	BORING PROG. & NUM.
2	11/22/10	BORINGS PLACED BY OUTFALL LOC.

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NOTES:

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3. BACKGROUND IMAGES SHOWN HEREON ARE PROVIDED COURTESY OF MASSGIS.
4. BORING LOCATIONS FROM PREVIOUS ENVIRONMENTAL INVESTIGATIONS ARE APPROXIMATE AND WERE SCALED INTO LOCATION FROM RECORD PLANS.
5. EXISTING AND POSSIBLE EXISTING STORM DRAIN AND COMBINED SEWER OVERFLOW (CSO) LOCATIONS AND SIZES SHOWN ARE FROM RECORD PLANS AND HAVE NOT BEEN FIELD VERIFIED.

- HORIZONTAL DELINEATION (PEAT CORER) - PCBs VIA NOAA CONGENERS AT 1' INTERVALS- SURFACE SAMPLES ALSO RUN FOR 13 PRIORITY POLLUTANT METALS, SVOCs, AND TPH - PLUS WATER COLUMN TESTING
- HORIZONTAL DELINEATION (PEAT CORER) - PCBs VIA NOAA CONGENERS AT 1' INTERVALS- SURFACE SAMPLES ALSO RUN FOR 13 PRIORITY POLLUTANT METALS, SVOCs, AND TPH
- VERTICAL DELINEATION (VIBRACORE)-SAMPLES AT 1' INTERVALS FOR PCBs VIA NOAA CONGENERS, COPPER, CHROMIUM, AND ZINC
- HORIZONTAL DELINEATION (PEAT CORER) - PCBs VIA NOAA CONGENERS AT 1' INTERVALS

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COMMISSION  
NEW BEDFORD,  
MASSACHUSETTS

DRAWING TITLE:

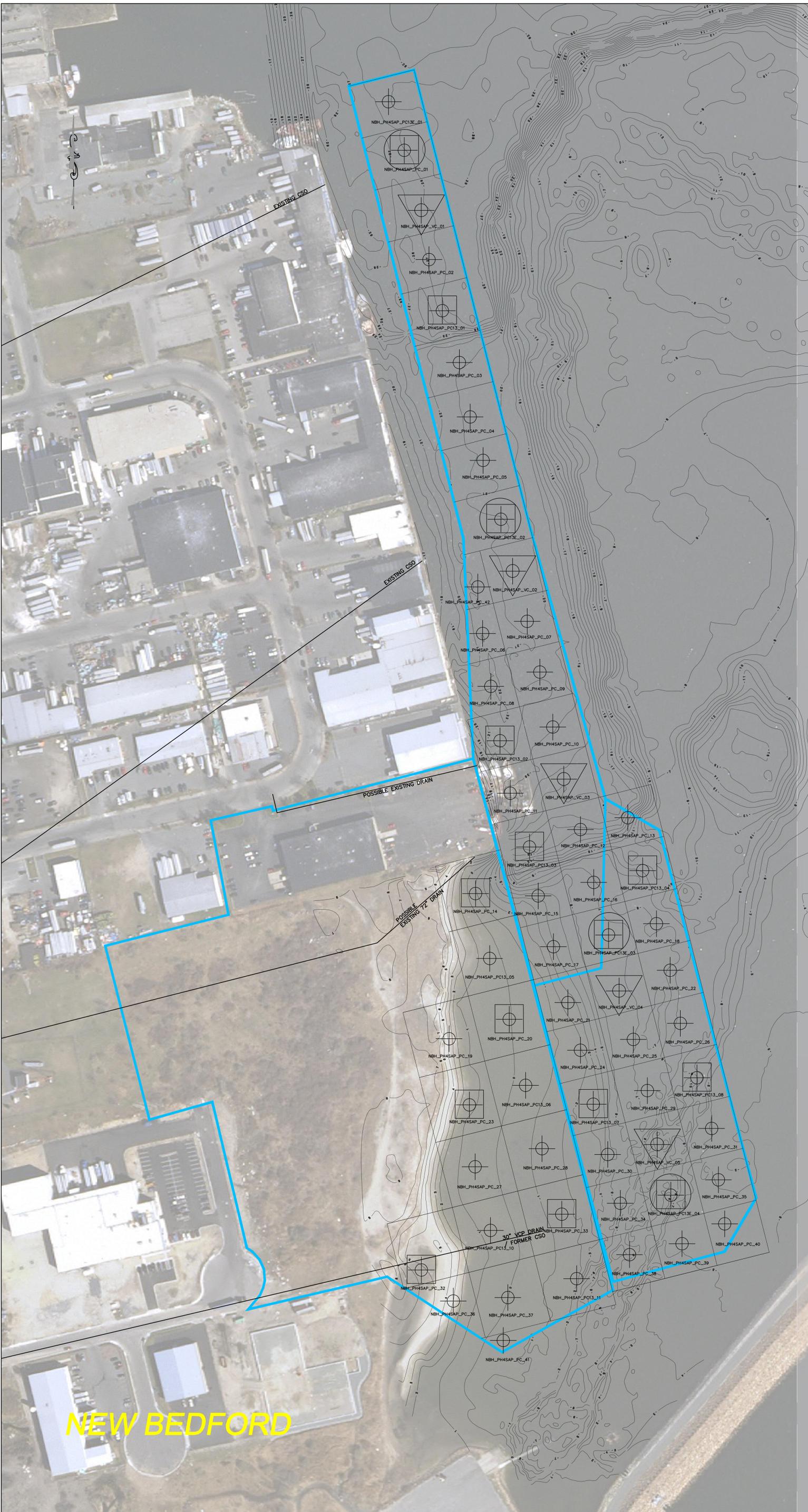
SOUTH TERMINAL  
MARINE  
INFRASTRUCTURE PARK  
INTER-TIDAL AND  
SUB-TIDAL SAMPLING  
PLAN

Scale: 1"=100'



Date 10/28/10	Drawing No.  <b>FIG. 3</b>
Proj. Mgr.	
Design CWM	
Check JAB	
Drawn GCD	
Job. No. 6615	
Last Rev. 11/22/10	

**NEW BEDFORD**



**FIGURE 4**

184 HIGH STREET  
SUITE 502  
BOSTON MA 02110  
(617) 728-0070

REVISIONS

#	DATE	DESCRIPTION
1	10/28/10	Boring locations and numbers
2	11/22/10	Realigning based on prev. investigation

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NOTES:

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2. PROPERTY LINES AND OWNERSHIP SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON DATA PROVIDED BY THE ASSESSORS OFFICE OF THE CITY OF NEW BEDFORD.
3. HISTORIC OVERLAY SHOWING THE FORMER MILL STRUCTURES OF POTOMSKA MILLS IS FROM "ATLAS OF THE CITY OF NEW BEDFORD 1911", GEORECTIFIED BY APEX COMPANIES LLC. STRUCTURE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
4. BACKGROUND IMAGES SHOWN HEREON ARE PROVIDED COURTESY OF MASSGIS.
5. BORING LOCATIONS FROM PREVIOUS ENVIRONMENTAL INVESTIGATIONS ARE APPROXIMATE AND WERE SCALED INTO LOCATION FROM RECORD PLANS.

- TEST PITS - LOCATION TO BE REFINED BY GEOPHYSICAL SURVEY RESULTS.
- TEST BORING/MONITORING WELL FOR ENVIRONMENTAL INVESTIGATION
- AIR MONITORING LOCATION
- PREVIOUS ENVIRONMENTAL INVESTIGATION BORING LOCATION

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COMMISSION  
NEW BEDFORD,  
MASSACHUSETTS

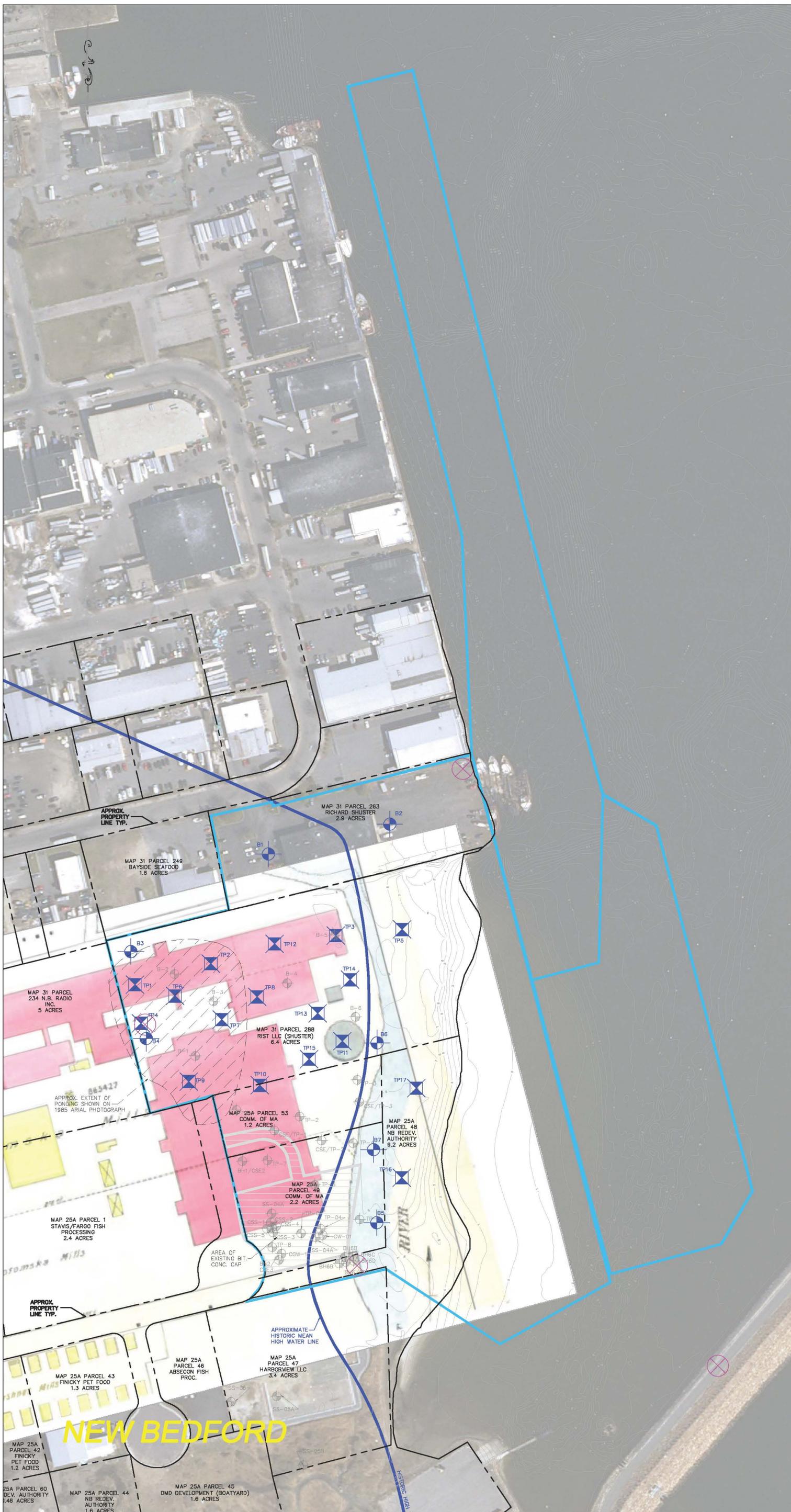
DRAWING TITLE:

SOUTH TERMINAL  
MARINE  
INFRASTRUCTURE PARK  
UPLAND SAMPLING  
PLAN

Scale: 1"=100'



Date	10/28/10	Drawing No.
Proj. Mgr.		
Design	CWM	
Check	JAB	
Drawn	GCD	
Job No.	6690	
Last Rev.	11/22/10	FIG. 4



# **APPENDIX A**

**Table 1:  
Analytical Data: Linberg Marine  
Phase III Harbor Maintenance Dredge Program  
New Bedford, Massachusetts**

Sample Name	Collection Date	Extractable Petroleum Hydrocarbons (µg/kg)																			
		C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aromatics	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene
307A 0-1	10/23/2006	300000	1300000	310000	320000	830	830	830	830	830	830	1000	2000	990	890	1300	830	920	1700	1700	830
308 0-1	10/23/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Metals (mg/kg)							
Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
5.9	32	4.4	260	190	1.4	1.8	0.94
NS	NS	NS	NS	NS	NS	NS	NS

Sample Name	Collection Date	PCB Congeners (µg/kg)																				Summation of Congeners (mg/kg) [NOAA 18]	Reactive Sulfide (mg/kg)		
		C12-BZ#5/#8	C13-BZ#18	C13-BZ#28/#31	C14-BZ#44	C14-BZ#52	C14-BZ#43/#49	C14-BZ#66	C15-BZ#101/#84	C15-BZ#87	C17-BZ#184	C15-BZ#105	C15-BZ#118	C17-BZ#183	C16-BZ#167/#128	C16-BZ#138/#163	C16-BZ#153	C17-BZ#170/#190	C17-BZ#180	C17-BZ#182/#187	C18-BZ#195			C19-BZ#206	C10-BZ#209
307A 0-1	10/23/2006	87	300	1500	370	570	620	740	920	270	0.31	290	760	29	130	540	460	54	100	66	9.2	19	3.8	18.0	150
308 0-1	10/23/2006	14	33	190	39	84	94	84	120	32	0.24	36	110	4.1	20	80	80	8.3	12	9.6	1.1	1.6	1.1	2.4	NS

Notes:

U = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

**Table 2:  
Analytical Data: Olde North Wharf Fisheries  
Phase III Harbor Maintenance Dredge Program  
New Bedford, Massachusetts**

Sample Name	Collection Date	Extractable Petroleum Hydrocarbons (µg/kg)																				
		C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aromatics	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
309 0-1	10/24/2006	48000	300000	100000	110000	650	650	650	650	650	650	650	860	1800	650	650	650	650	650	1300	1300	650
310 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
311 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Metals (mg/kg)							
Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
6	160	1	56	360	1	1	0
NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS

Sample Name	Collection Date	PCB Congeners (µg/kg)																					
		C12-BZ#5/#8	C13-BZ#18	C13-BZ#28/#31	C14-BZ#44	C14-BZ#52	C14-BZ#43/#49	C14-BZ#66	C15-BZ#101/#84	C15-BZ#87	C17-BZ#184	C15-BZ#105	C15-BZ#118	C17-BZ#183	C16-BZ#167/#128	C16-BZ#138/#163	C16-BZ#153	C17-BZ#170/#190	C17-BZ#180	C17-BZ#182/#187	C18-BZ#195	C19-BZ#206	C10-BZ#209
309 0-1	10/24/2006	26	57	330	73	160	180	140	240	61	0	65	200	7	36	150	140	15	24	16	2	3	2
310 0-1	10/24/2006	85	260	1100	280	420	420	460	700	220	0	210	530	19	98	420	350	42	65	46	6	5	3
311 0-1	10/24/2006	29	65	390	95	170	200	190	300	78	0	81	240	9	43	180	160	20	32	21	3	3	1

Summation of Congeners (mg/kg) [NOAA 18]
4.4
13.2
5.3

Reactive Sulfide (mg/kg)
190
NS
NS

Notes:

U = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

**Table 3:  
Analytical Data: Union Wharf  
Phase III Harbor Maintenance Dredge Program  
New Bedford, Massachusetts**

Sample Name	Collection Date	Extractable Petroleum Hydrocarbons (µg/kg)																				
		C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aromatics	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
321 0-1	10/25/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
325 0-1	10/25/2006	880000	2200000	1000000	1100000	1000	1000	1000	1000	1000	2400	1200	8500	10000	5700	5200	5600	2400	4100	3700	3700	2800

Metals (mg/kg)							
Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
NS	NS	NS	NS	NS	NS	NS	NS
20	330	5.1	200	3000	3.0	1.2	7.3

Sample Name	Collection Date	PCB Congeners (µg/kg)																					
		C12-BZ#5/#8	C13-BZ#18	C13-BZ#28/#31	C14-BZ#44	C14-BZ#52	C14-BZ#43/#49	C14-BZ#66	C15-BZ#101/#84	C15-BZ#87	C17-BZ#184	C15-BZ#105	C15-BZ#118	C17-BZ#183	C16-BZ#167/#128	C16-BZ#138/#163	C16-BZ#153	C17-BZ#170/#190	C17-BZ#180	C17-BZ#182/#187	C18-BZ#195	C19-BZ#206	C10-BZ#209
321 0-1	10/25/2006	24	68	270	82	120	110	140	170	45	0.28	46	97	43	22	180	180	77	170	96	18	8.8	0.36
325 0-1	10/25/2006	73	150	720	220	370	320	350	940	280	0.37	250	620	120	150	810	870	210	440	300	42	33	9.4

Summation of Congeners (mg/kg) [NOAA 18]
4.6
17.0

Reactive Sulfide (mg/kg)
NS
79

Notes:

U = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

**Table 4:  
Analytical Data: Steamship Authority Pre-Dredge Locations  
Phase III Harbor Maintenance Dredge Program  
New Bedford, Massachusetts**

Sample Name	Collection Date	PCB Congeners (µg/kg)																					
		C12-BZ#5/#8	C13-BZ#18	C13-BZ#28/#31	C14-BZ#44	C14-BZ#52	C14-BZ#43/#49	C14-BZ#66	C15-BZ#101/#84	C15-BZ#87	C17-BZ#184	C15-BZ#105	C15-BZ#118	C17-BZ#183	C16-BZ#167/#128	C16-BZ#138/#163	C16-BZ#153	C17-BZ#170/#190	C17-BZ#180	C17-BZ#182/#187	C18-BZ#195	C19-BZ#206	C10-BZ#209
329 0-1	10/23/2006	48	87	540	120	260	290	220	370	90	0.7 U	97	310	18	57	240	260	37	69	46	7.3	7.3	1.7
330 0-1	10/23/2006	140	260	1300	340	600	620	600	930	260	2.4 U	250	680	56	140	580	570	110	210	140	26.0	22.0	6.3
331 0-1	10/25/2006	2	3	14	4	8	9	6	12	2	0.33 U	3	9	2	3	8	10	2	4	3	0.33 U	0.33 U	0.33 U
332A 0-1	10/23/2006	2	3	14	4	7	8	5	11	3	0.19 U	3	8	1	2	7	8	1	3	2	0.7	0.19 U	0.3

Summation of Congeners (mg/kg) [NOAA 18]
7.2
18.0
0.234
0.210

Notes:

U = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

**Table 5:  
Additional Analytical Data: Additional Pre-Dredge Locations  
Phase III Harbor Maintenance Dredge Program, USEPA Data, Intertidal Sampling Results  
New Bedford, Massachusetts**

Sample Name	Collection Date	Extractable Petroleum Hydrocarbons (µg/kg)																			
		C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aromatics	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene
VC-07C-08	11/17/2008	25000	213000	152000	185000	803 U	803 U	803 U	803 U	3790	803	6330	5250	2920	3180	2740	2470	2520	2040	803	1880

Sample Name	Collection Date	Metals (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
VC-05-08	11/13/2008	4.58	20	1.59	82.7	64.4	0.729	0.793	0.283
VC-07C-08	11/17/2008	6.6	87.2	8.01	86.5	547	0.744	11.9	0.803
VC-16-08	11/21/2008	8.22	44.4	0.948	57.7	107	1.2	0.524	0.641

Sample Name	Collection Date	PCB Congeners (µg/kg)																					
		C12-BZ#5/#8	C13-BZ#18	C13-BZ#28/#31	C14-BZ#44	C14-BZ#52	C14-BZ#43/#49	C14-BZ#66	C15-BZ#101/#84	C15-BZ#87	C17-BZ#184	C15-BZ#105	C15-BZ#118	C17-BZ#183	C16-BZ#167/#128	C16-BZ#138/#163	C16-BZ#153	C17-BZ#170/#190	C17-BZ#180	C17-BZ#182/#187	C18-BZ#195	C19-BZ#206	C110-BZ#209
VC-05-08	11/13/2008	39.7	166	529	156	296	209	184	359	127	1.13 U	127	386	10.8	72.5	320	224	29.9	38.3	23.8	2.47	3.49	1.35
VC-07C-08	11/17/2008	576	1490	2150	656	1240	620	285	504	174	1.03 U	143	390	23.2	97.3	400	309	57	90.9	66.9	9.52	16.5	2.77
VC-16-08 (0-1.5')	11/21/2008	17.2	95.9	153	145	340	132	96.9	207	207	1.22 U	163	478	13.8	108	464	300	41.8	50.1	27.2	1.22 U	6.62	3.85
H1	8/6/2010	1.80	7.41	20.4	9.54	16.6	11.4	4.13	16.1	2.08	0.958 U	4.38	13.6	0.958 U	3.14	12.2	10.4	1.19	1.16	0.958 U	0.958 U	0.958 U	0.958 U
D2	8/6/2010	0.870 U	1.09	3.01	1.45	4.10	2.73	0.870 U	3.49	0.870 U	0.870 U	0.870 U	2.83	0.870 U	0.870 U	3.20	2.57	0.870 U	0.870 U	0.870 U	0.870 U	0.870 U	0.870 U
F1	8/10/2010	0.912 U	2.38	7.14	2.89	7.57	5.12	1.40	7.25	0.912 U	0.912 U	2.00	6.59	0.912 U	1.31	5.34	4.72	1.25	0.912 U	0.912 U	0.912 U	0.912 U	0.912 U
B1	8/10/2010	0.856 U	2.64	7.63	2.44	8.52	5.5	1.87	7.77	0.856 U	0.856 U	1.8	6.7	0.856 U	1.2	6.07	6.37	0.933	0.968	0.856 U	0.856 U	0.856 U	0.856 U

Summation of Congeners (mg/kg) [NOAA 18]
7.7
22.1
7.0
0.32
0.07
0.14
0.15

Sample Name	Collection Date	Total PCBs [Method Unknown] (mg/kg)
S-203316	Pre-ROD	16
S-ae538	Pre-ROD	1
S-ae539	Pre-ROD	5
S-ae540	Pre-ROD	4
S-ae542	Pre-ROD	3
S-403	10/6/1999	2
S-405	10/6/1999	0.2
S-406	10/7/1999	9.2
S-af541	Pre-ROD	1
S-ae531	Pre-ROD	10
S-ae532	Pre-ROD	6
S-ae517	Pre-ROD	4
S-ae525	Pre-ROD	2
S-ae532	Pre-ROD	6

Notes:  
U = Concentration is below the laboratory's method detection limit.  
NS = Not sampled.



184 HIGH STREET  
SUITE 202  
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**REVISIONS**

NO.	DATE	DESCRIPTION
1.	08/08	PRELIM. DREDGE LAYOUT
2.	10/08	REV. SHEET
3.	11/08	REVISED
4.	12/08	POST-CONSTRUCTION PLAN

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMED THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS. FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.



**PROJECT TITLE:**  
NEW BEDFORD HARBOR  
NAVIGATIONAL  
DREDGE - PHASE III,  
PART A & B

**PREPARED FOR:**  
THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
AND THE  
TOWN OF FAIRHAVEN,  
MASSACHUSETTS

**DRAWING TITLE:**  
TONNESON PARK  
DREDGE AREAS-  
PRE AND POST DREDGE  
SAMPLING LOCATIONS  
NOT  
FOR CONSTRUCTION



Date 9/5/08	Drawing No.  <b>V-1</b>
Proj. Mgr. JAB	
Design GCD	
Check CM	
Drawn GCD	
Job No. 6615	
Last Rev. 1/22/10	

**NOTES**

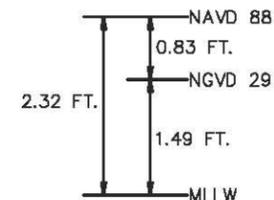
- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MASSLAND ZONE 850, REFERENCED TO THE 1988 NORTH AMERICAN DATUM.
- BASE PLAN FOR THIS PROJECT OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
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VC-07-08

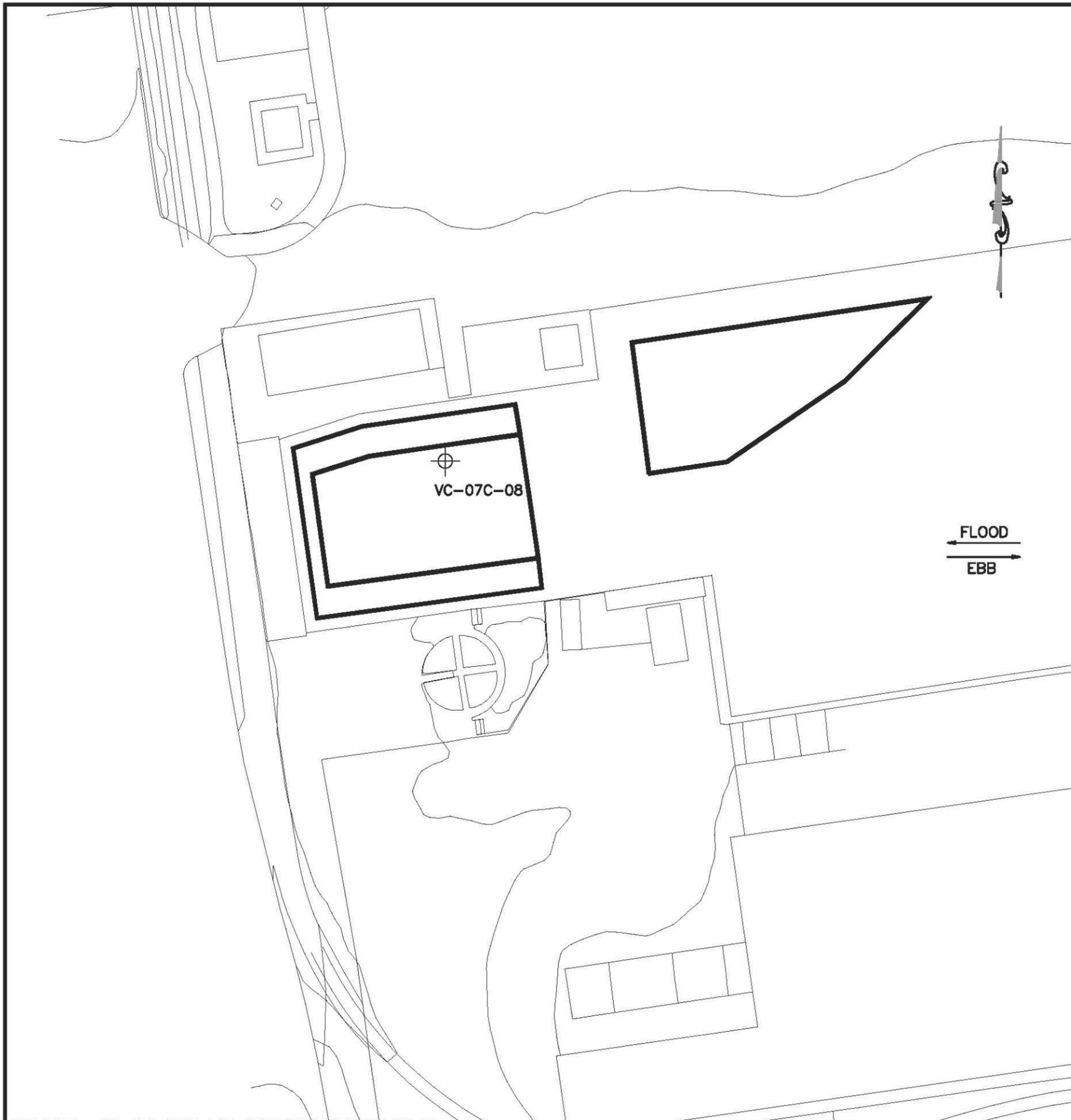
**PRE DREDGE SAMPLE LOCATION**

FLOOD  
← →  
EBB

GRAPHIC DEPICTION OF  
DATUM SEPARATIONS FOR  
NEW BEDFORD HARBOR



VC-07C-08





FLOOD  
EBB

**NOTES**

- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
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(617) 728-0070

**REVISIONS**

NO.	DATE	DESCRIPTION
1.	08/08	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET
3.	1/16/09	RE-BID
4.	1/22/10	POST-DREDGE SAMPLES

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**PRE DREDGE SAMPLE LOCATION**

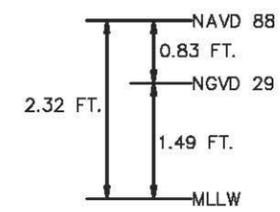


**APEX SAMPLES 8-6-2010,  
8-10-2010**



**USACE SAMPLES**

GRAPHIC DEPICTION OF  
DATUM SEPARATIONS FOR  
NEW BEDFORD HARBOR



**PROJECT TITLE:**

**NEW BEDFORD HARBOR  
NAVIGATIONAL  
DREDGE - PHASE III,  
PART A & B**

**PREPARED FOR:**

**THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
AND THE  
TOWN OF FAIRHAVEN,  
MASSACHUSETTS**

**DRAWING TITLE:**

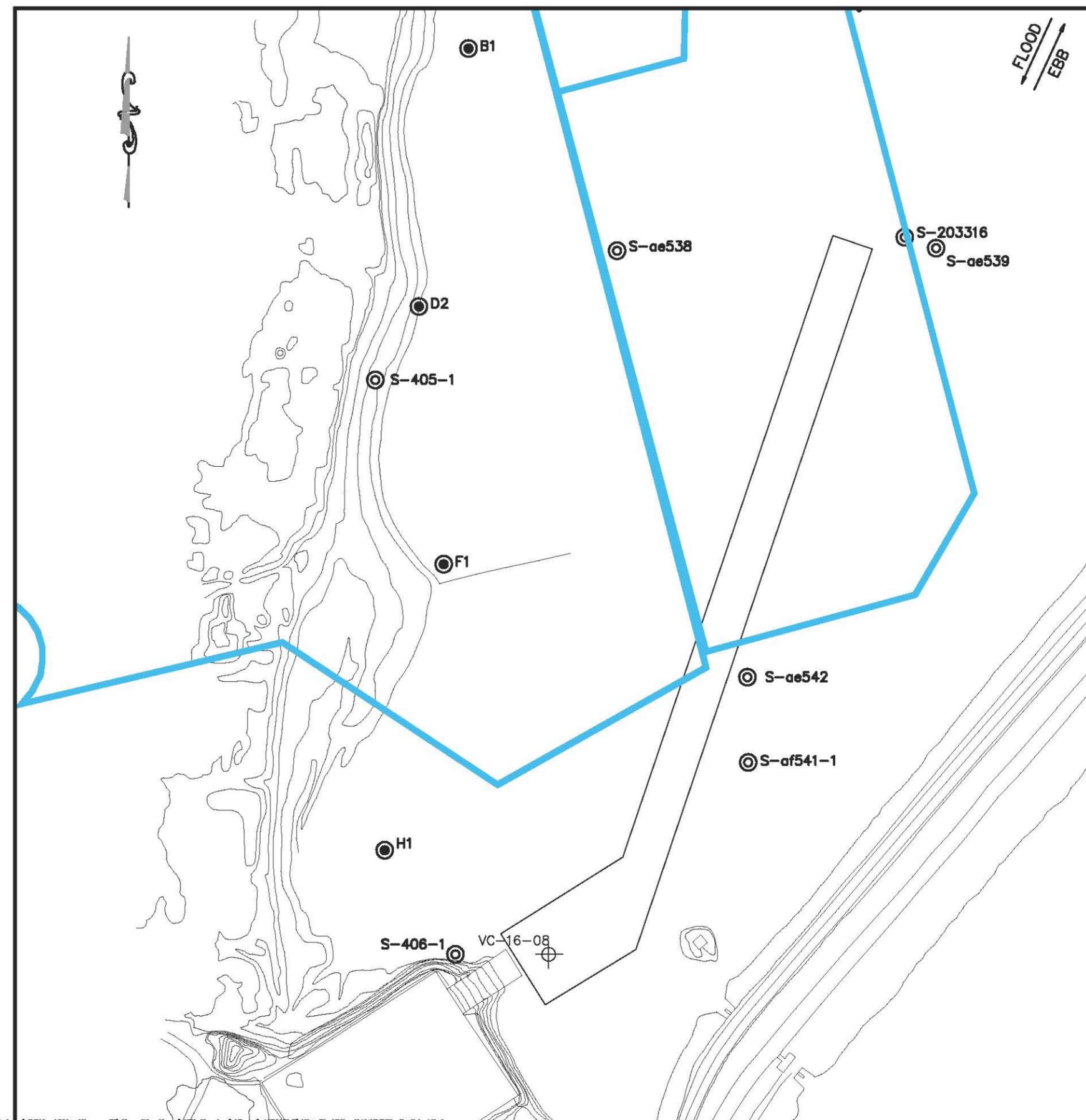
**GIFFORD STREET BOAT  
RAMP DREDGE AREA-  
PRE AND POST DREDGE  
SAMPLING LOCATIONS  
NOT  
FOR CONSTRUCTION**

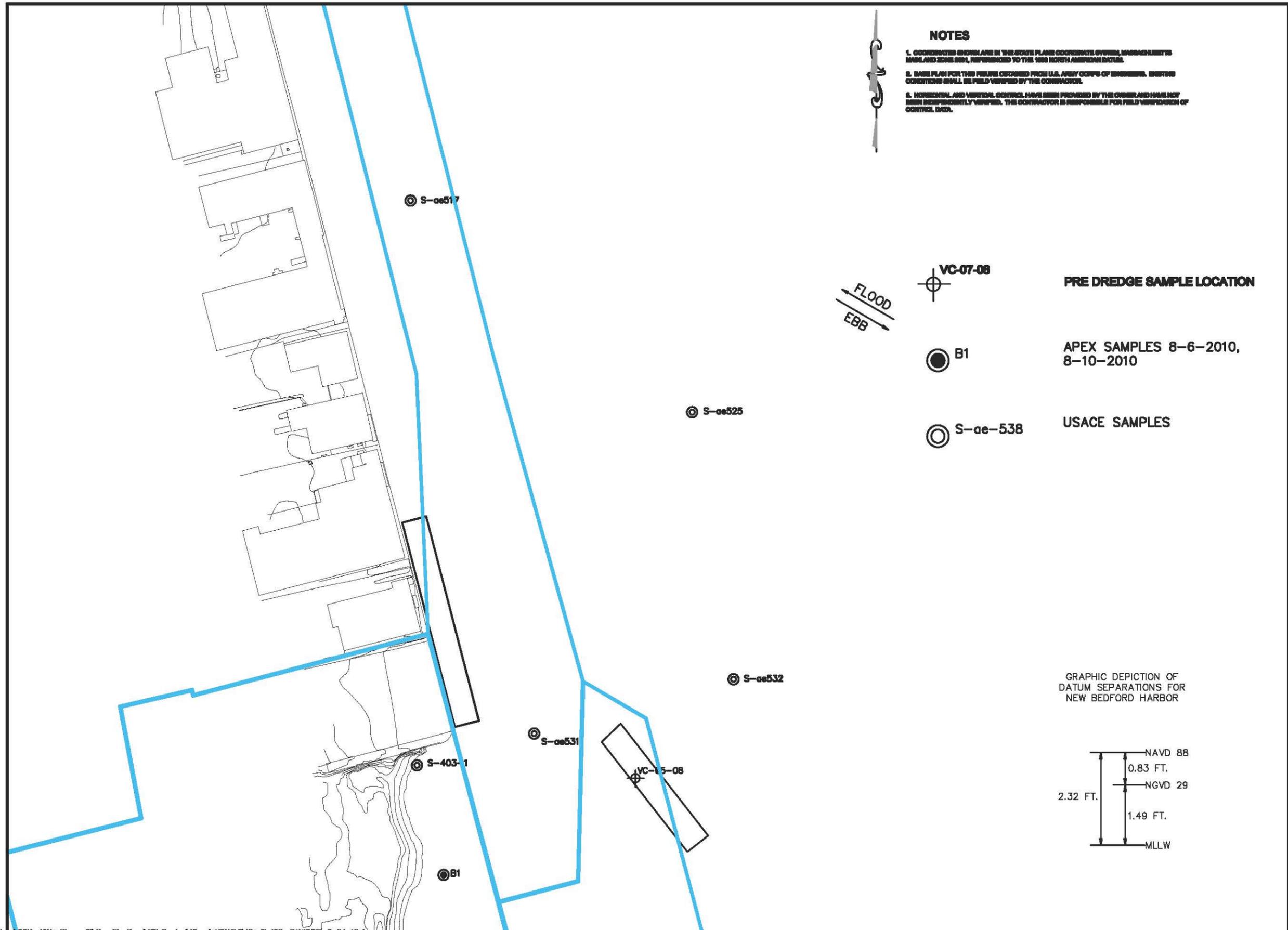
**Scale:**



Date 9/5/08  
 Proj. Mgr. JAB  
 Design GCD  
 Check CM  
 Drawn GCD  
 Job. No. 6615  
 Last Rev. 1/22/10

Drawing No.  
**V-2**



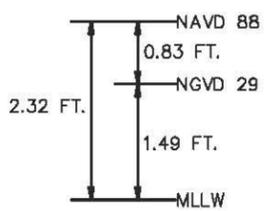


**NOTES**

- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAPLAND ZONE 80A, REFERENCED TO THE 1988 NORTH AMERICAN DATUM.
- BASE PLAN FOR THIS PROJECT OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.

- VC-07-08 PRE DREDGE SAMPLE LOCATION
- B1 APEX SAMPLES 8-6-2010, 8-10-2010
- S-ae-538 USACE SAMPLES

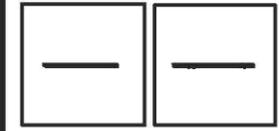
GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR



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REVISIONS		
NO.	DATE	DESCRIPTION
1.	08/08	PRELIM. DREDGE LAYOUT
2.	10/08	REV. SET
3.	1/09	REV. SET
4.	10/10	POST-DREDGE SAMPLES

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMED THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS. FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.



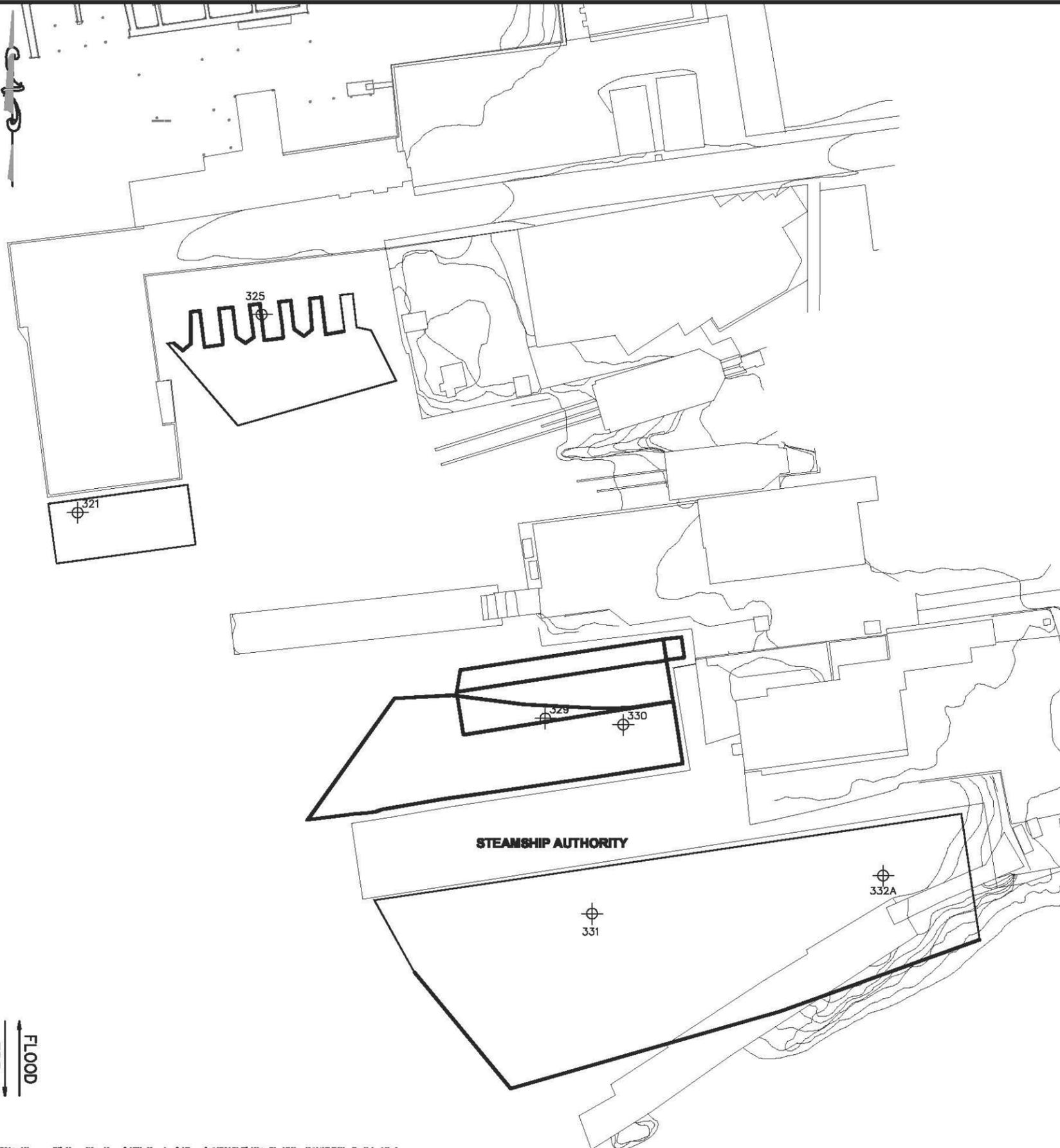
**PROJECT TITLE:**  
NEW BEDFORD HARBOR  
NAVIGATIONAL  
DREDGE - PHASE III,  
PART A & B

**PREPARED FOR:**  
THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
AND THE  
TOWN OF FAIRHAVEN,  
MASSACHUSETTS

**DRAWING TITLE:**  
SOUTH TERMINAL  
DREDGE AREAS- PRE  
AND POST DREDGE  
SAMPLING LOCATIONS  
NOT  
FOR CONSTRUCTION



Date 9/5/08	Drawing No.  V-3
Proj. Mgr. JAB	
Design GCD	
Check CM	
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	



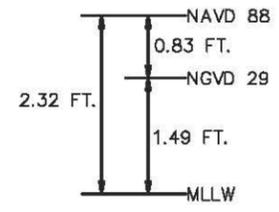
**NOTES**

- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAPLAND ZONE 801, REFERENCED TO THE 1988 NORTH AMERICAN DATUM.
- BASE PLAN FOR THIS PHASE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.

VC-07-08

PRE DREDGE SAMPLE LOCATION

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

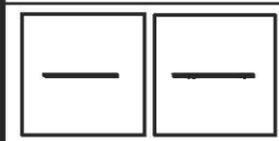


104 HIGH STREET  
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(617) 726-0070

**REVISIONS**

NO.	DATE	DESCRIPTION
1.	08/08	PRELIM. DREDGE LAYOUT
2.	10/10/08	REVISED
3.	07/09	REVISED
4.	10/27/10	POST-DREDGE SAMPLES

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMED THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.



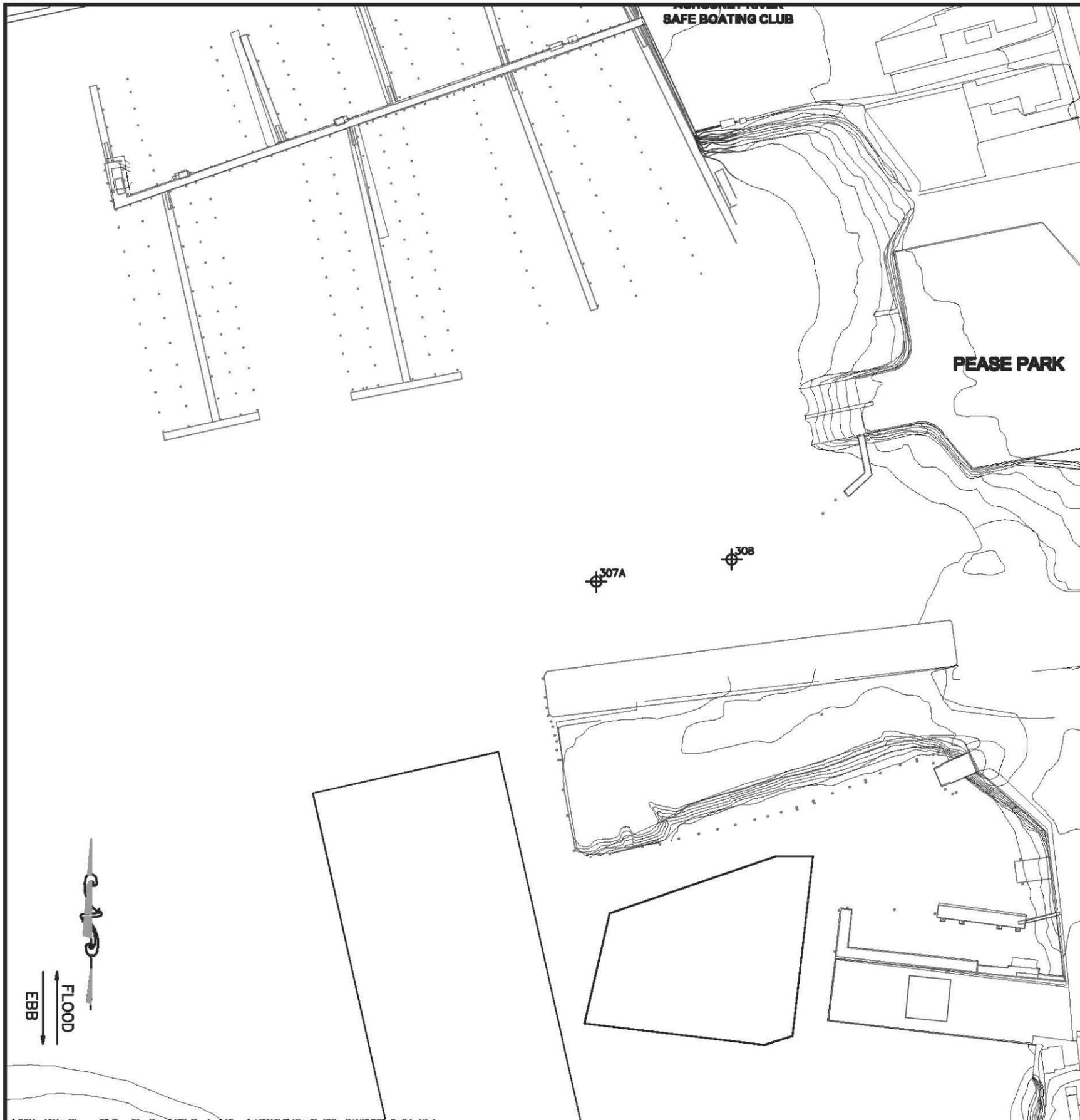
**PROJECT TITLE:**  
NEW BEDFORD HARBOR  
NAVIGATIONAL  
DREDGE - PHASE III,  
PART A & B

**PREPARED FOR:**  
THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
AND THE  
TOWN OF FAIRHAVEN,  
MASSACHUSETTS

**DRAWING TITLE:**  
WARREN ALEXANDER  
SOUTH AND URSON  
WHARF DREDGE AREAS-  
VERACORE AND BORING  
LOCATION SHEET  
**NOT  
FOR CONSTRUCTION**



Date 9/5/08	Drawing No.  <b>V-4</b>
Proj. Mgr. JAB	
Design GCD	
Check CM	
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	

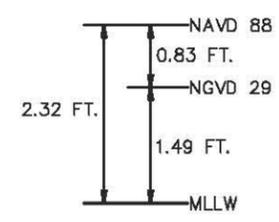


**NOTES**

- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1988 NORTH AMERICAN DATUM.
- HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PERFORMED BETWEEN 8-11-08 AND 11-8-08.
- HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7884 J 1877 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S. HIGHWAY 8 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 8. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MLLW - 1.82 FT - NGVD29 (0.3 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.82 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
- BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.
- THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.



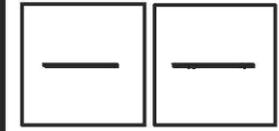
GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR



116 BROAD STREET  
SUITE 200  
BOSTON MA 02110  
(617) 728-0070

REVISIONS		
NO.	DATE	DESCRIPTION
1.	08/08	PRELIM DREDGE/RELOCATE
2.	11/08	REV SHEET
3.	11/08	REV SHEET

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**PROJECT TITLE:**  
NEW BEDFORD HARBOR  
NAVIGATIONAL  
DREDGE - PHASE III,  
PART A & B

**PREPARED FOR:**  
THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
AND THE  
TOWN OF FAIRHAVEN,  
MASSACHUSETTS

**DRAWING TITLE:**  
LEADING DREDGE  
AREAS-  
VERRACORE AND BORING  
LOCATION SHEET  
**NOT  
FOR CONSTRUCTION**



Date 9/5/08	Drawing No.  <b>V-5</b>
Proj. Mgr. JAB	
Design GCD	
Check CM	
Drawn GCD	
Job No. 6615	
Last Rev. 10/30/08	



104 HIGH STREET  
SUITE 602  
BOSTON, MA 02110  
(617) 728-0070

**REVISIONS**

NO.	DATE	DESCRIPTION
1.	08/08	PRELIM. DREDGE LAYOUT
2.	10/08	REVISED
3.	11/08	REVISED
4.	12/09	POST-DREDGE SAMPLES

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**PROJECT TITLE:**  
NEW BEDFORD HARBOR  
NAVIGATIONAL  
DREDGE - PHASE III,  
PART A & B

**PREPARED FOR:**  
THE NEW BEDFORD  
HARBOR DEVELOPMENT  
COMMISSION  
AND THE  
TOWN OF FAIRHAVEN,  
MASSACHUSETTS

**DRAWING TITLE:**  
OLDE NORTH WHARF  
FISHERIES DREDGE AREAS  
PRE AND POST DREDGE  
SAMPLING LOCATIONS  
NOT  
FOR CONSTRUCTION



Date 9/5/08	Drawing No.  <b>V-7</b>
Proj. Mgr. JAB	
Design GCD	
Check CM	
Drawn GCD	
Job No. 6615	
Last Rev. 1/22/10	

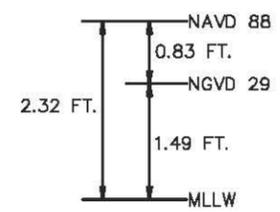
**NOTES**

- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAPLAND ZONE 18N, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- BASE PLAN FOR THIS PHASE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
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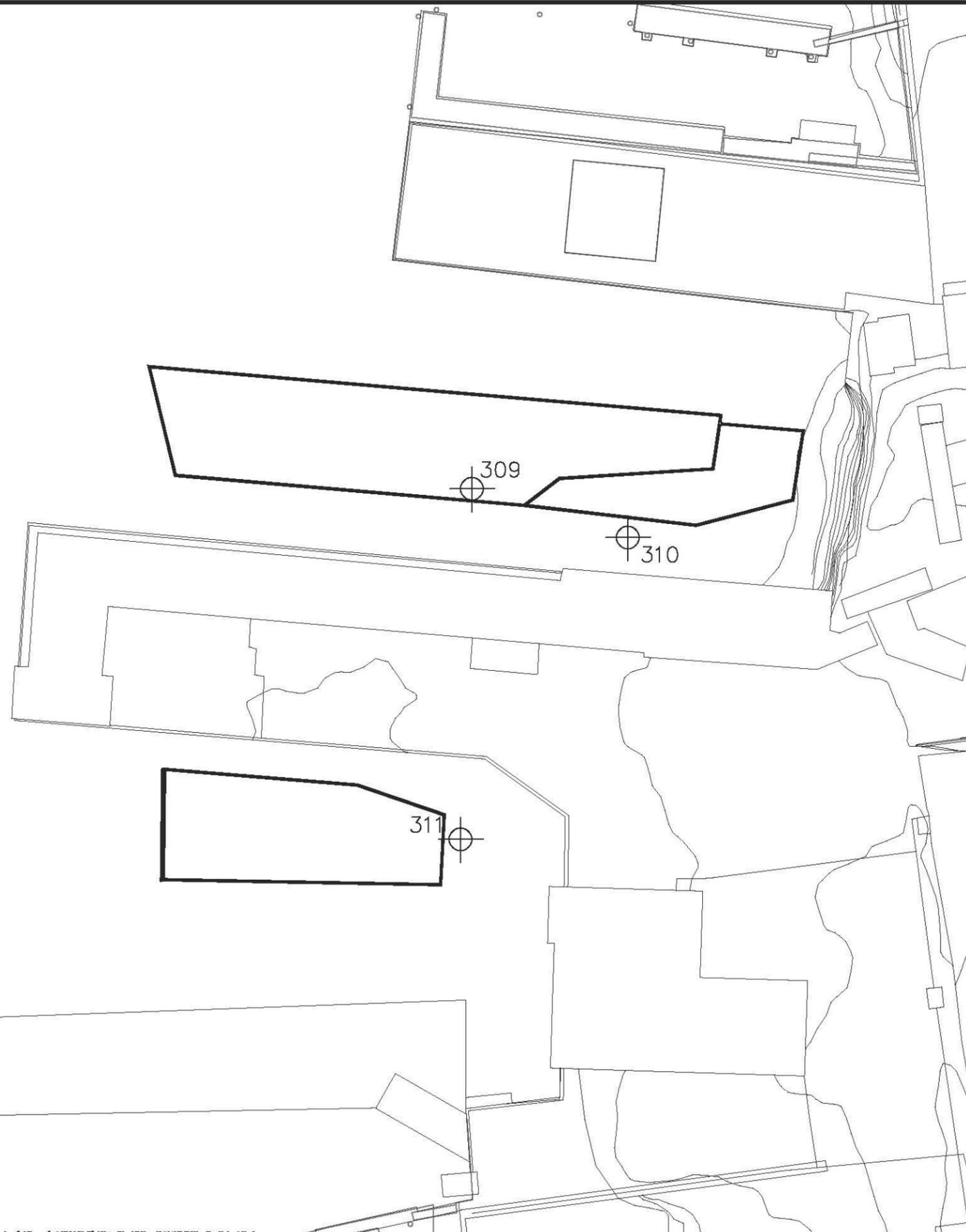
VC-07-08

**PRE DREDGE SAMPLE LOCATION**

GRAPHIC DEPICTION OF  
DATUM SEPARATIONS FOR  
NEW BEDFORD HARBOR

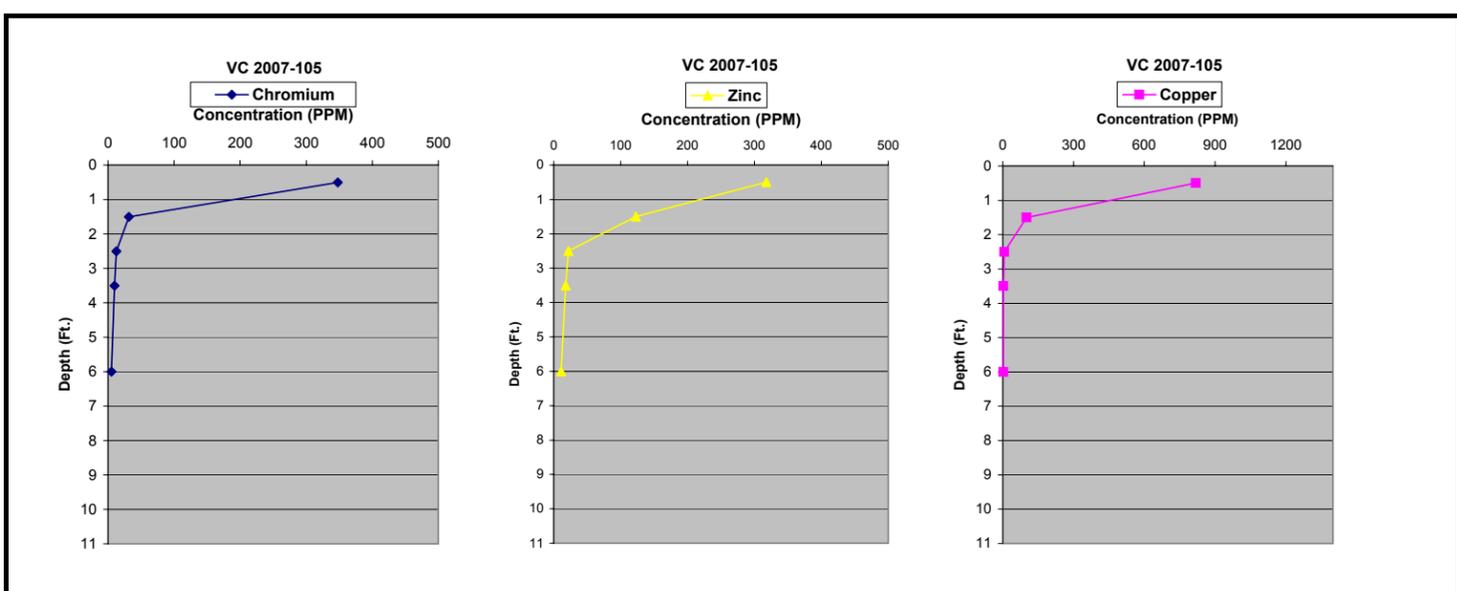
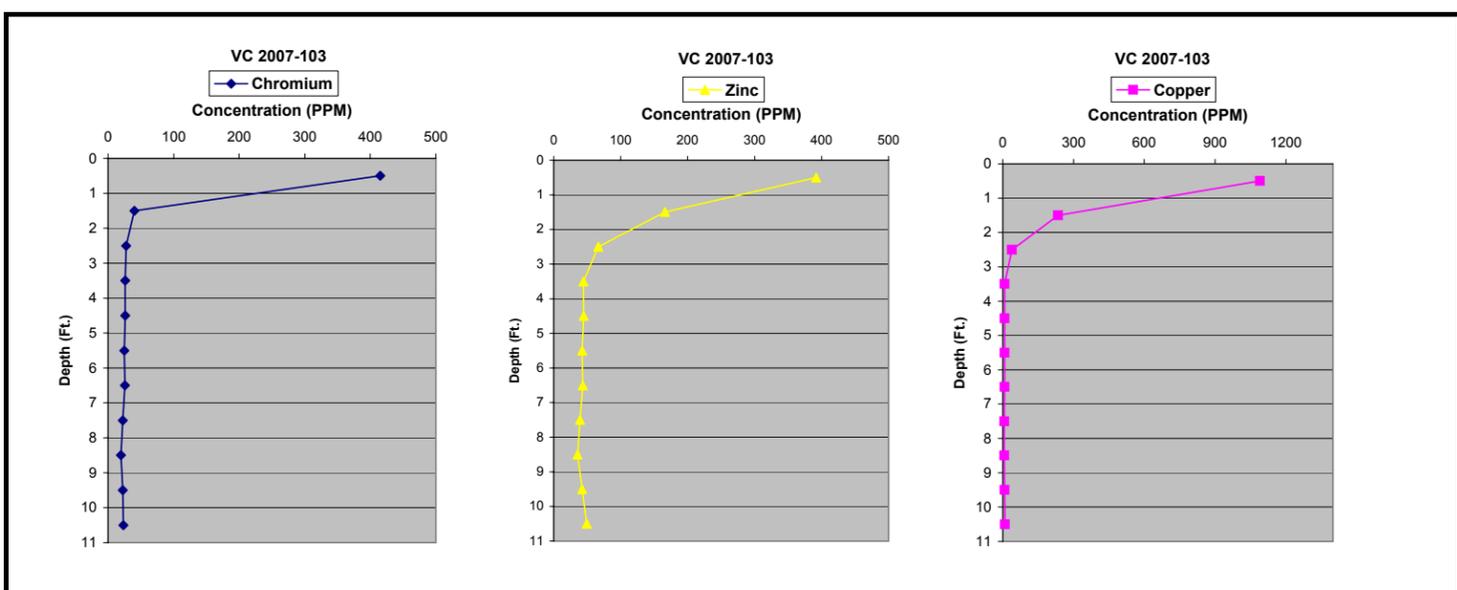
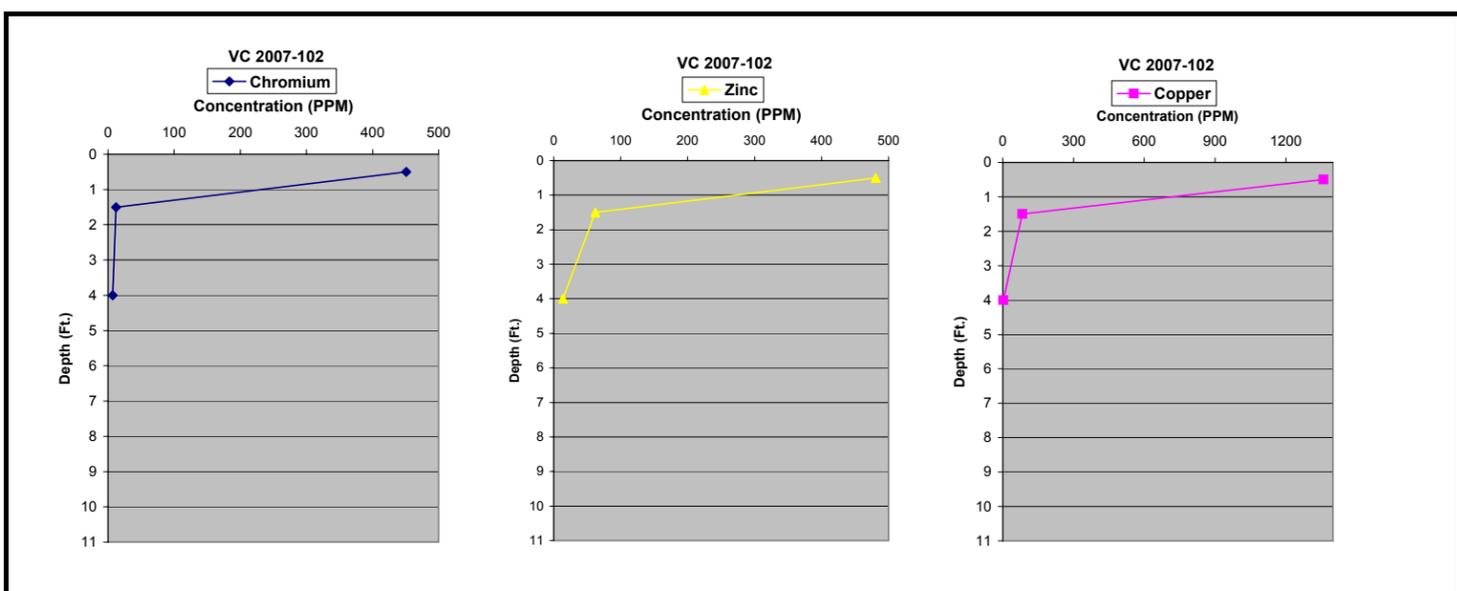
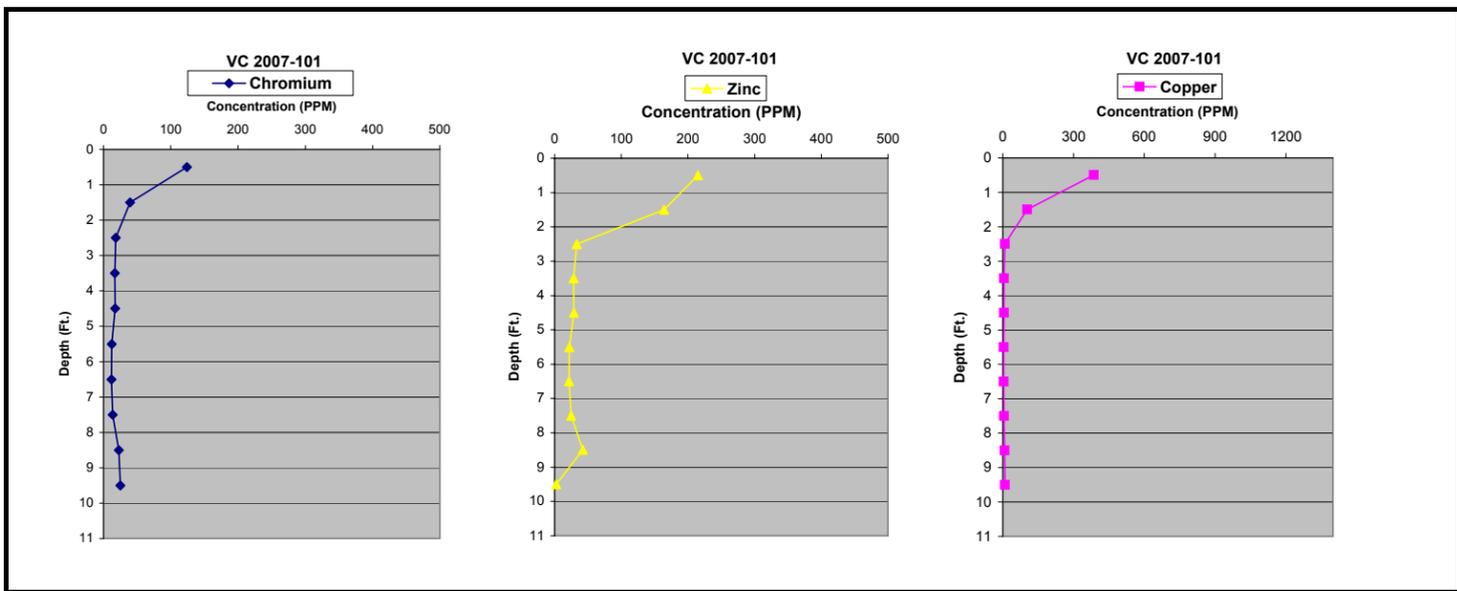


FLOOD  
EBB

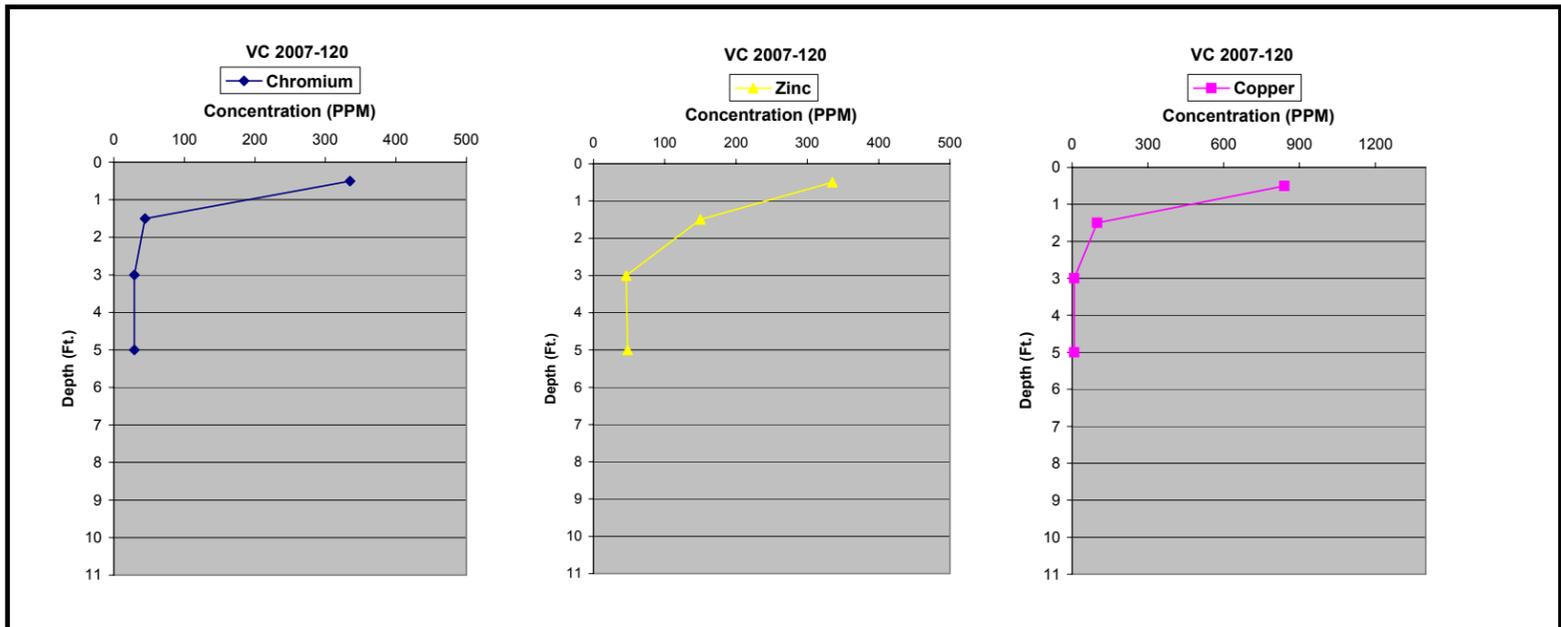
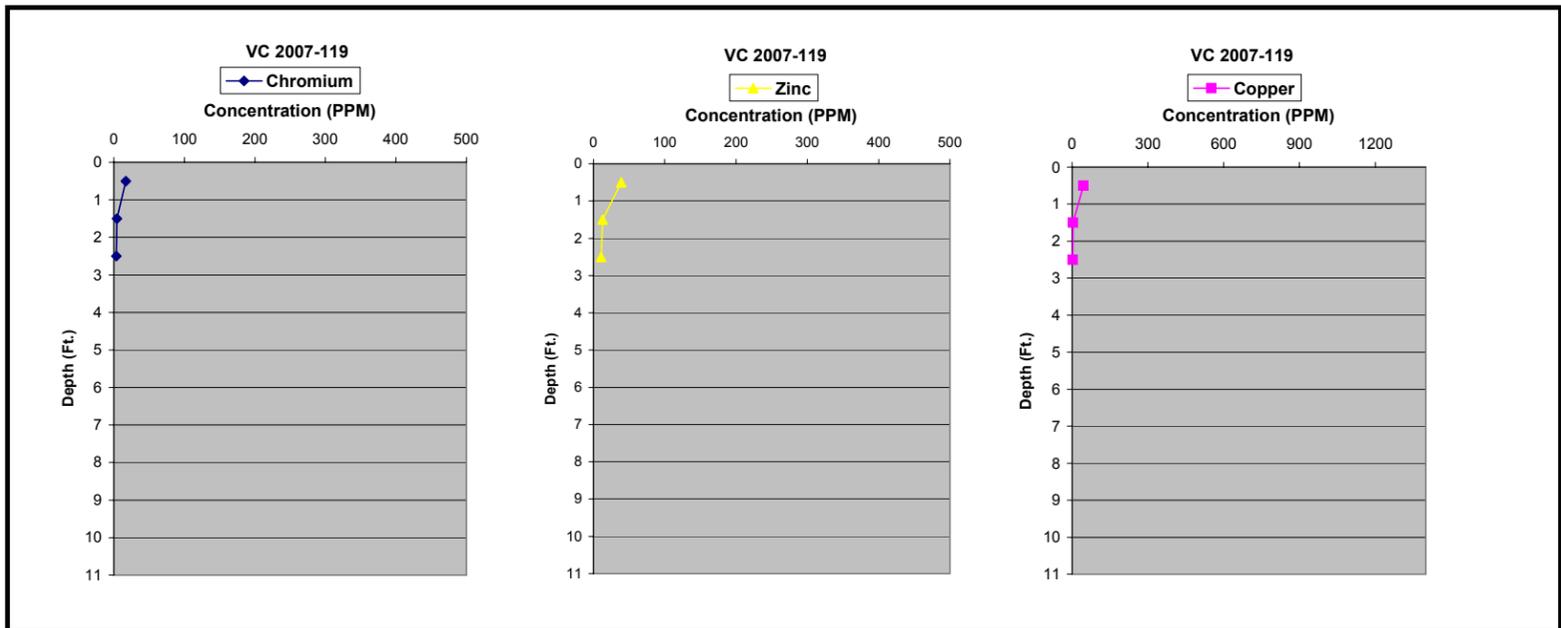
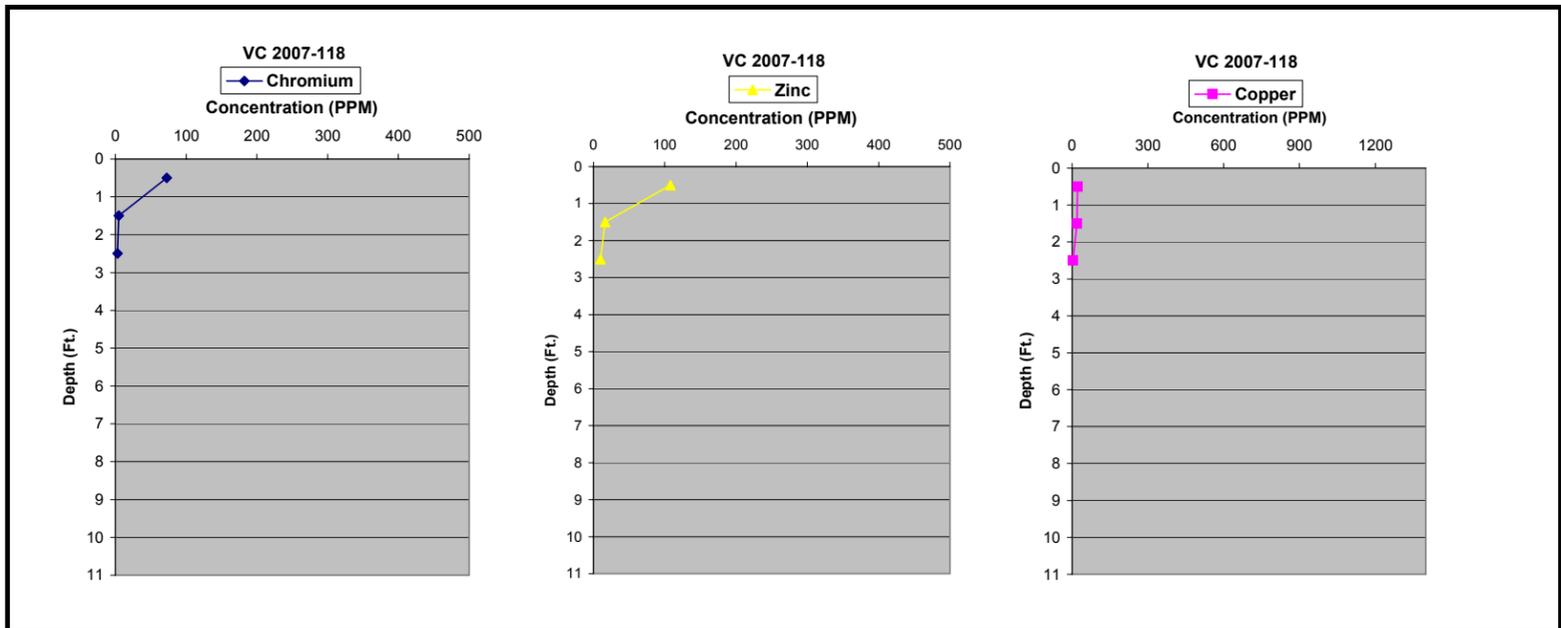
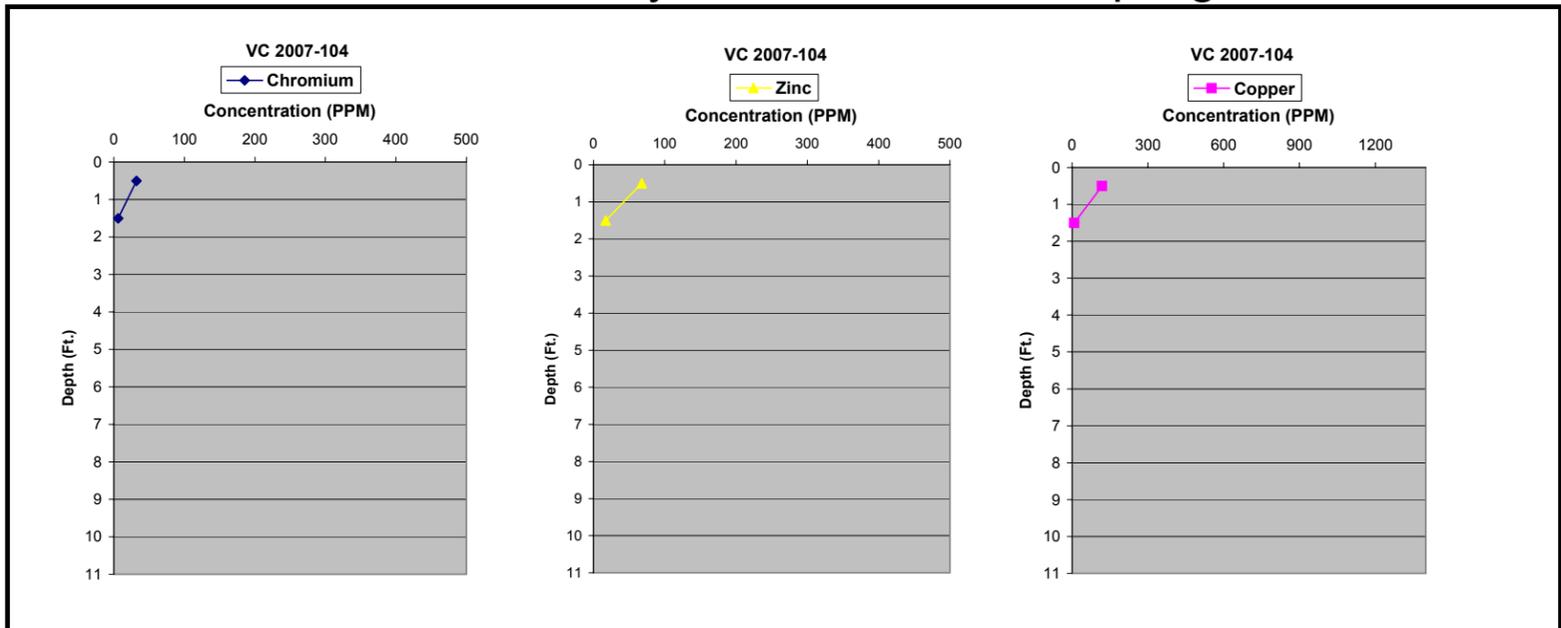


## **APPENDIX B**

# CAD Cell #2 Suitability Determination Sampling Results



# CAD Cell #2 Suitability Determination Sampling Results



## **APPENDIX C**

SVOCs (EPA Method 8270)	Water Reporting Limit (ug/L)	Water Method Detection Limit	Soil/Sediment Reporting Limit (ug/kg)	Soil/Sediment Method Detection Limit
N-Nitrosodimethylamine	0.5	0.079	400	12.0
Pyridine	2	1.574	1600	45.3
Benzaldehyde	0.5	0.199	400	10.5
Aniline	0.5	0.161	400	58.6
bis(2-Chloroethyl)ether	0.5	0.088	400	11.1
Phenol	0.5	0.062	400	15.7
2-Chlorophenol	0.5	0.073	400	17.6
1,3-Dichlorobenzene	0.5	0.097	400	9.4
1,4-Dichlorobenzene	0.5	0.099	400	10.1
1,2-Dichlorobenzene	0.5	0.112	400	10.7
Benzyl alcohol	0.5	0.071	400	66.2
bis(2-chloroisopropyl)ether	0.5	0.093	400	10.3
2-Methylphenol	0.5	0.120	400	16.6
Acetophenone	0.5	0.143	400	11.7
Hexachloroethane	0.5	0.117	400	18.0
N-Nitroso-di-n-propylamine	0.5	0.089	400	16.9
4-Methylphenol	0.5	0.116	400	14.3
Nitrobenzene	0.5	0.110	400	11.4
Isophorone	0.5	0.090	400	11.5
2-Nitrophenol	0.5	0.078	400	36.6
2,4-Dimethylphenol	0.5	0.097	400	16.8
Benzoic acid	2	0.725	1600	16.6
bis(2-Chloroethoxy)methane	0.5	0.087	400	11.3
2,4-Dichlorophenol	0.5	0.081	400	47.8
1,2,4-Trichlorobenzene	0.5	0.102	400	10.2
Naphthalene	0.5	0.110	400	10.7
4-Chloroaniline	0.5	0.119	400	17.0
Hexachlorobutadiene	0.5	0.137	400	11.7
Caprolactam	0.5	0.072	400	29.4
4-Chloro-3-methylphenol	0.5	0.059	400	17.7
2-Methylnaphthalene	0.5	0.112	400	10.7
Hexachlorocyclopentadiene	2	0.093	1600	36.6
2,4,6-Trichlorophenol	0.5	0.063	400	32.7
2,4,5-Trichlorophenol	0.5	0.077	400	21.7
Biphenyl	0.5	0.124	400	11.4
2-Chloronaphthalene	0.5	0.111	400	10.8
2-Nitroaniline	0.5	0.050	400	18.7
Acenaphthylene	0.5	0.092	400	11.7
Dimethylphthalate	0.5	0.054	400	10.9
2,6-Dinitrotoluene	0.5	0.064	400	22.3
Acenaphthene	0.5	0.090	400	11.3
3-Nitroaniline	0.5	0.056	400	15.2
2,4-Dinitrophenol	2	1.352	1600	36.1
Dibenzofuran	0.5	0.096	400	11.4
2,4-Dinitrotoluene	0.5	0.050	400	20.7
4-Nitrophenol	0.5	0.065	400	64.1
Fluorene	0.5	0.073	400	9.9
4-Chlorophenyl-phenylether	0.5	0.075	400	9.9
Diethylphthalate	0.5	0.043	400	10.1
4-Nitroaniline	0.5	0.153	400	15.6
4,6-Dinitro-2-methylphenol	2	0.053	1600	41.0
Azobenzene	0.5	0.067	400	10.1
n-Nitrosodiphenylamine	0.5	0.051	400	11.9
4-Bromophenyl-phenylether	0.5	0.059	400	13.5

Hexachlorobenzene	0.5	0.061	400	11.5
Atrazine	0.5	0.054	400	13.3
Pentachlorophenol	2	0.069	1600	44.6
Phenanthrene	0.5	0.067	400	11.7
Anthracene	0.5	0.077	400	10.5
Carbazole	0.5	0.050	400	10.5
Di-n-butylphthalate	0.5	0.048	400	28.8
Fluoranthene	0.5	0.040	400	9.9
Benzidine	2	0.897	1600	13.0
Pyrene	0.5	0.035	400	7.6
Butylbenzylphthalate	0.5	0.452	400	11.1
3,3'-Dichlorobenzidine	0.5	0.057	400	28.3
Benz[a]anthracene	0.5	0.036	400	7.3
Chrysene	0.5	0.051	400	8.5
bis(2-Ethylhexyl)phthalate	0.5	0.185	400	12.3
Di-n-octylphthalate	0.5	1.905	400	9.5
Benzo[b]fluoranthene	0.5	0.158	400	20.8
Benzo[k]fluoranthene	0.5	0.145	400	22.8
Benzo[a]pyrene	0.5	0.076	400	10.1
Indeno[1,2,3-cd]pyrene	0.5	0.038	400	10.1
Dibenz[a,h]anthracene	0.5	0.038	400	10.5
Benzo[g,h,i]perylene	0.5	0.022	400	10.3

PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	Water Column Reporting Limit (ng/L)	Water Column Method Detection Limit	Sediment Reporting Limit (ug/kg)	Sediment Method Detection Limit
Cl2-BZ#8-Cal	1	0.092	0.8	0.127
Cl3-BZ#18	1	0.200	0.8	0.134
Cl3-BZ#28	1	0.201	0.8	0.094
Cl4-BZ#52	1	0.284	0.8	0.050
Cl4-BZ#49	1	0.220	0.8	0.363
Cl4-BZ#44	1	0.164	0.8	0.089
Cl4-BZ#66	1	0.184	0.8	0.065
Cl5-BZ#101	1	0.161	0.8	0.099
Cl5-BZ#87-Cal	1	0.270	0.8	0.074
Cl5-BZ#118	1	0.209	0.8	0.195
Cl6-BZ#153	1	0.099	0.8	0.164
Cl7-BZ#184	1	0.367	0.8	0.196
Cl5-BZ#105	1	0.140	0.8	0.218
Cl6-BZ#138	1	0.198	0.8	0.145
Cl7-BZ#187	1	0.150	0.8	0.220
Cl7-BZ#183	1	0.155	0.8	0.062
Cl6-BZ#128	1	0.268	0.8	0.158
Cl7-BZ#180	1	0.185	0.8	0.105
Cl7-BZ#170	1	0.382	0.8	0.129
Cl8-BZ#195	1	0.286	0.8	0.205
Cl9-BZ#206-Cal/RTW	1	0.465	0.8	0.147
Cl10-BZ#209-Cal/RTW	1	0.172	0.8	0.145

PCBs Aroclors (EPA Method 8082) With Non-Target ECD Peaks Reported	Soil Reporting Limit (ug/kg)	Groundwater Reporting Limit (ng/L)
Aroclor 1016	16	0.020
Aroclor 1221	16	0.020
Aroclor 1232	16	0.020
Aroclor 1242	16	0.020
Aroclor 1248	16	0.020
Aroclor 1254	16	0.020
Aroclor 1260	16	0.020
Aroclor 1262	16	0.020
Aroclor 1262	16	0.020

TPH (EPA Method 8015)	Water Reporting Limit (ug/L)	Water Method Detection Limit	Soil/Sediment Reporting Limit (ug/kg)	Soil/Sediment Method Detection Limit
TPH	500	75	33,300	5300

### Metals Reportable and Method Detection Limits

Analyte	Water			Soil		
	RL	MDL	Method	RL	MDL	Method
	(ug/L)	(ug/L)		(mg/kg)	(mg/kg)	
Aluminum	50	22	6020A	10	2.2	6020A
Antimony	0.5	0.026	6020A	0.05	0.008	6020A
Arsenic	0.5	0.085	6020A	0.05	0.004	6020A
Barium	0.5	0.07	6020A	0.1	0.019	6020A
Beryllium	0.5	0.041	6020A	0.05	0.004	6020A
Cadmium	0.5	0.084	6020A	0.05	0.004	6020A
Calcium	100	19	6020A	50	4.4	6020A
Chromium	1	0.3	6020A	0.2	0.019	6020A
Cobalt	0.2	0.023	6020A	0.05	0.007	6020A
Copper	1	0.33	6020A	0.1	0.02	6020A
Iron	50	8.1	6020A	20	3.1	6020A
Lead	1	0.065	6020A	0.05	0.003	6020A
Magnesium	50	1.6	6020A	10	2.1	6020A
Manganese	0.5	0.12	6020A	0.2	0.02	6020A
Mercury	0.05	0.0005	7474	0.012	0.002	7474
Nickel	0.5	0.15	6020A	0.1	0.014	6020A
Potassium	200	6.1	6020A	10	2.5	6020A
Selenium	5	0.34	6020A	0.1	0.017	6020A
Silver	0.2	0.024	6020A	0.05	0.002	6020A
Sodium	100	5.4	6020A	10	2.1	6020A
Thallium	0.2	0.005	6020A	0.05	0.004	6020A
Vanadium	5	0.14	6020A	0.1	0.01	6020A
Zinc	10	1.4	6020A	1	0.22	6020A

VOCs in Soil - Low EPA 8260B		
Analytes	Method Detection Limit ug/Kg	Reportable Limit ug/Kg
Acetone	3.235	10
Acrylonitrile	0.376	10
Benzene	0.129	1
Bromobenzene	0.201	5
Bromochloromethane	0.302	5
Bromodichloromethane	0.229	1
Bromoform	0.415	4
Bromomethane	0.648	2
Carbon disulfide	0.149	10
Carbon tetrachloride	0.190	1
Chlorobenzene	0.348	1
Chlorodibromomethane	0.308	1
Chloroethane	0.438	2
Chloroform	0.370	2
Chloromethane	0.783	5
cis-1,2-Dichloroethene	0.256	1
cis-1,3-Dichloropropene	0.267	1
Dibromomethane	0.435	10
Dichlorodifluoromethane	0.317	10
Ethyl benzene	0.150	1
ethyl ether	0.380	5
Ethyl-methacrylate	0.639	1
Hexachlorobutadiene	0.422	5
Isopropylbenzene	0.168	1
Methylene chloride	0.816	2
Methyl-tert-butyl ether	0.487	10
Naphthalene	0.770	5
n-Butylbenzene	0.198	1
n-Propylbenzene	0.188	1
o-Xylene	0.271	2
p/m-Xylene	0.323	2
p-Isopropyltoluene	0.191	1
sec-Butylbenzene	0.206	1
Styrene	0.552	2
tert-Butylbenzene	0.561	5
Tetrachloroethene	0.160	1
Tetrahydrofuran	0.340	20
Toluene	0.175	2
trans-1,2-Dichloroethene	0.178	2
trans-1,3-Dichloropropene	0.143	1
trans-1,4-Dichloro-2-butene	1.478	5
Trichloroethene	0.187	1
Trichlorofluoromethane	0.231	5
Vinyl Acetate	0.885	10
Vinyl chloride	0.361	2
1,1-Dichloroethane	0.206	10
1,1-Dichloroethene	0.178	1
1,1-Dichloropropene	0.456	5
1,1,1-Trichloroethane	0.193	1
1,1,2-Trichloroethane	0.248	2
1,1,1,2-Tetrachloroethane	0.318	1
1,1,2,2-Tetrachloroethane	0.240	1
1,2-Dibromo-3-chloropropane	0.837	5
1,2-Dibromoethane	0.211	4
1,2-Dichlorobenzene	0.364	5
1,2-Dichloroethane	0.207	1
1,2-Dichloropropane	0.233	4
1,2,3-Trichlorobenzene	0.403	5
1,2,3-Trichloropropane	0.387	10
1,2,4-Trichlorobenzene	0.790	5
1,2,4-Trimethylbenzene	0.573	5
1,3-Dichlorobenzene	0.225	5
1,3-Dichloropropane	0.173	5
1,3,5-Trimethylbenzene	0.164	5
1,4-Dichlorobenzene	0.301	5
1,4-Dichloro-2-butane	0.120	10
2-Butanone	0.500	10
2-Chlorotoluene	0.313	5
2,2-Dichloropropene	0.767	5
4-Chlorotoluene	0.208	5
4-methyl-2-pentanone	0.454	10
<b>Non-Standard Compounds</b>		
1,2,4,5-tetramethylbenzene	0.905	1
1,4-Dioxane	143.764	500
2-Chloroethylvinyl ether	0.616	5
2-Hexanone	0.396	10
4-ethyltoluene	0.485	1
Acrolein	3.009	25

VOCs in Soil - High EPA 8260B		
Analytes	Method Detection Limit ug/Kg	Reportable Limit ug/Kg
Acetone	161.75	500
Acrylonitrile	60.07	200
Benzene	9.62	50
Bromobenzene	16.59	250
Bromochloromethane	17.87	250
Bromodichloromethane	19.24	50
Bromoform	55.76	200
Bromomethane	29.12	100
Carbon disulfide	12.85	500
Carbon tetrachloride	13.93	50
Chlorobenzene	12.33	50
Chlorodibromomethane	16.02	50
Chloroethane	21.96	100
Chloroform	16.23	75
Chloromethane	39.16	250
cis-1,2-Dichloroethene	12.80	50
cis-1,3-Dichloropropene	13.37	50
Dibromomethane	21.74	500
Dichlorodifluoromethane	86.60	500
Ethyl benzene	18.99	50
Ethyl ether	17.96	250
Ethyl methacrylate	73.57	500
Hexachlorobutadiene	21.12	250
Isopropylbenzene	9.66	50
Methylene chloride	22.85	500
Methyl-tert-butyl ether	57.14	100
Naphthalene	33.05	250
n-Butylbenzene	41.10	50
n-Propylbenzene	9.99	50
o-Xylene	11.70	100
p/m-Xylene	28.49	100
p-Isopropyltoluene	9.75	50
sec-Butylbenzene	10.65	50
Styrene	30.71	100
tert-Butylbenzene	28.04	250
Tetrachloroethene	14.51	50
Tetrahydrofuran	56.40	1000
Toluene	9.49	75
trans-1,2-Dichloroethene	15.00	75
trans-1,3-Dichloropropene	16.84	50
trans-1,4-Dichloro-2-butene	73.90	250
Trichloroethene	14.07	50
Trichlorofluoromethane	21.75	250
Vinyl acetate	68.27	500
Vinyl chloride	27.73	100
1,1-Dichloroethane	11.78	75
1,1-Dichloroethene	16.56	50
1,1-Dichloropropene	22.78	250
1,1,1-Trichloroethane	10.15	50
1,1,2-Trichloroethane	20.52	75
1,1,1,2-Tetrachloroethane	16.42	50
1,1,2,2-Tetrachloroethane	14.46	50
1,2-Dibromo-3-chloropropane	74.11	250
1,2-Dibromoethane	10.72	200
1,2-Dichlorobenzene	18.21	250
1,2-Dichloroethane	14.67	50
1,2-Dichloropropane	12.57	180
1,2,3-Trichlorobenzene	46.21	250
1,2,3-Trichloropropane	20.93	500
1,2,4-Trichlorobenzene	43.47	250
1,2,4-Trimethylbenzene	76.33	250
1,3-Dichlorobenzene	18.82	250
1,3-Dichloropropane	11.73	250
1,3,5-Trimethylbenzene	68.60	250
1,4-Dichlorobenzene	15.27	250
1,4-Dichlorobutane	39.17	500
2-Butanone	193.86	500
2-Chlorotoluene	15.65	250
2-Hexanone	62.98	500
2,2-Dichloropropane	60.57	250
4-Chlorotoluene	14.22	250
4-Methyl-2-pentanone	88.37	500
<b>Non-Standard Compounds</b>		
1,4-Dioxane	7575.94	25000
2-Chloroethylvinyl ether	15.64	1000
4-ethyltoluene	24.25	50
Acrolein	150.44	1200
Diisopropyl ether	47.70	200

VOCs in Liquid EPA 8260B		
Analytes	Method Detection Limit ug/L	Reportable Limit ug/L
Acetone	1.561	5.0
Acrylonitrile	0.430	5.0
Benzene	0.194	0.5
Bromobenzene	0.184	2.5
Bromochloromethane	0.329	2.5
Bromodichloromethane	0.192	0.5
Bromoform	0.248	2.0
Bromomethane	0.257	1.0
Carbon disulfide	0.299	5.0
Carbon tetrachloride	0.165	0.5
Chlorobenzene	0.192	0.5
Chlorodibromomethane	0.189	0.5
Chloroethane	0.233	1.0
Chloroform	0.198	0.75
Chloromethane	0.281	2.5
cis-1,2-Dichloroethene	0.187	0.5
cis-1,3-Dichloropropene	0.144	0.5
Cyclohexane	0.245	10.0
Dibromomethane	0.363	5.0
Dichlorodifluoromethane	0.300	5.0
Ethyl acetate	0.716	10.0
Ethyl benzene	0.265	0.5
Ethyl ether	0.205	2.5
Ethyl-methacrylate	0.606	5.0
Halothane	0.149	2.0
Hexachlorobutadiene	0.230	0.5
Isopropylbenzene	0.187	0.5
Methylene chloride	0.539	5.0
Methyl cyclohexane	0.288	10.0
Methyl-tert-butyl ether	0.160	1.0
Naphthalene	0.217	2.5
n-Butylbenzene	0.196	0.5
n-Propylbenzene	0.173	0.5
o-Xylene	0.330	1.0
p/m-Xylene	0.348	1.0
p-Diethylbenzene	0.108	2.0
p-Isopropyltoluene	0.188	0.5
sec-Butylbenzene	0.181	0.5
Styrene	0.359	1.0
tert-Butylbenzene	0.302	2.5
Tert butyl Alcohol	0.899	50.0
Tetrachloroethene	0.181	0.5
Tetrahydrofuran	1.299	10.0
Toluene	0.227	0.75
trans-1,2-Dichloroethene	0.211	0.75
trans-1,3-Dichloropropene	0.164	0.5
trans-1,4-Dichloro-2-butene	0.173	2.5
Trichloroethene	0.175	0.5
Trichlorofluoromethane	0.267	2.5
Vinyl acetate	0.311	5.0
Vinyl chloride	0.224	1.0
1,1-Dichloroethane	0.216	0.75
1,1-Dichloroethene	0.181	0.5
1,1-Dichloropropene	0.256	2.5
1,1,1-Trichloroethane	0.158	0.5
1,1,2-Trichloroethane	0.261	0.75
1,1,1,2-Tetrachloroethane	0.165	0.5
1,1,2,2-Tetrachloroethane	0.192	0.5
1,2-Dibromo-3-chloropropane	0.327	2.5
1,2-Dibromoethane	0.326	2.0
1,2-Dichlorobenzene	0.184	2.5
1,2-Dichloroethane	0.160	0.5
1,2-Dichloropropane	0.296	1.75
1,2,3-Trichlorobenzene	0.234	2.5
1,2,3-Trichloropropane	0.428	5.0
1,2,4-Trichlorobenzene	0.220	2.5
1,2,4-Trimethylbenzene	0.268	2.5
1,2,4,5-Tetramethylbenzene	0.097	2.0
1,3-Dichlorobenzene	0.186	2.5
1,3-Dichloropropane	0.212	2.5
1,3,5-Trimethylbenzene	0.211	2.5
1,4-Dichlorobenzene	0.215	2.5
1,4-Dichloro-2-butane	0.464	5.0
2-Butanone	1.939	5.0
2-Chloroethylvinyl ether	0.402	10.0
2-Chlorotoluene	0.182	2.5
2-Hexanone	0.578	5.0
2,2-Dichloropropane	0.397	2.5

cyclohexane	0.625	5
Diisopropyl ether	0.149	4
Ethyl Acetate	0.128	1
Ethyl-tert-butyl ether	0.423	4
Freon-113	0.215	20
Halothane	0.150	5
Iodomethane	1.267	10
Methyl acetate	0.466	10
methyl cyclohexane	0.699	4
p-diethylbenzene	1.000	1
Tert-Butyl Alcohol	0.642	60
Tertiary-amyI methyl ether	0.576	4

Ethyl-Tert-Butyl-Ether	43.81	200
Freon-113	46.63	200
Iodomethane	63.34	500
Tert-Butyl Alcohol	62.54	500
Tertiary-AmyI Methyl Ether	50.52	200

4-Chlorotoluene	0.185	2.5
4-Ethyltoluene	0.416	2.0
4-Methy-2-pentanone	0.416	5.0
<b>Non-Standard Compounds</b>		
Diisopropyl Ether	0.165	2.0
Ethyl-Tert-Butyl-Ether	0.460	2.0
Tertiary-AmyI Methyl Ether	0.382	2.0
1,4-Dioxane	75.706	250
Freon -113	0.234	10.0

## **APPENDIX D**

**4 Wright Street**

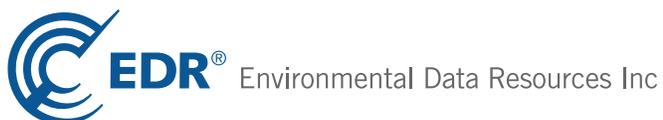
4 Wright Street

New Bedford, MA 02740

Inquiry Number: 2707507.2s

February 24, 2010

# The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

4 WRIGHT STREET  
NEW BEDFORD, MA 02740

#### COORDINATES

Latitude (North): 41.624400 - 41° 37' 27.8"  
Longitude (West): 70.916200 - 70° 54' 58.3"  
Universal Transverse Mercator: Zone 19  
UTM X (Meters): 340367.2  
UTM Y (Meters): 4609635.5  
Elevation: 0 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 41070-F8 NEW BEDFORD NORTH, MA  
Most Recent Revision: 1979  
  
South Map: 41070-E8 NEW BEDFORD SOUTH, MA  
Most Recent Revision: 1977

### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2006  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List

## EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Solid Waste Facility Database/Transfer Stations

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

AST..... Aboveground Storage Tank Database

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

## EXECUTIVE SUMMARY

### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs  
US HIST CDL..... National Clandestine Laboratory Register

### **Local Land Records**

LIENS 2..... CERCLA Lien Information  
LUCIS..... Land Use Control Information System

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

### **Other Ascertainable Records**

DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
DRYCLEANERS..... Regulated Drycleaning Facilities  
ENF..... Enforcement Action Cases  
AIRS..... Permitted Facilities Listing  
LEAD..... Lead Inspection Database  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
COAL ASH DOE..... Steam-Electric Plan Operation Data  
PCB TRANSFORMER..... PCB Transformer Registration Database  
GWDP..... Ground Water Discharge Permits  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
FINANCIAL ASSURANCE..... Financial Assurance Information Listing

### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

# EXECUTIVE SUMMARY

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 06/30/2009 has revealed that there is 1 CERCLIS site within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COMMONWEALTH ELECTRIC PROPERTY	180 MACARTHUR DRIVE	NNW 1/2 - 1 (0.605 mi.)	H40	194

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 06/23/2009 has revealed that there are 2 CERC-NFRAP sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MORSE CUTTING TOOLS</b>	<b>163 PLEASANT STREET</b>	<b>WNW 1/2 - 1 (0.515 mi.)</b>	<b>G31</b>	<b>103</b>
<b>DARTMOUTH FINISHING</b>	<b>45 COVE STREET</b>	<b>S 1/2 - 1 (0.555 mi.)</b>	<b>35</b>	<b>139</b>

### ***Federal RCRA generators list***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 01/13/2010 has revealed that there are 3 RCRA-CESQG sites within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BRODEUR C P INC</b>	<b>80 WRIGHT ST</b>	<b>WSW 0 - 1/8 (0.060 mi.)</b>	<b>A5</b>	<b>13</b>
<b>BARRYS ROUTE 18 COLLISION</b>	<b>75 MACARTHUR BLVD</b>	<b>W 1/8 - 1/4 (0.175 mi.)</b>	<b>10</b>	<b>19</b>
<b>J J TRUCK REPAIR INC</b>	<b>85 CONWAY ST</b>	<b>NW 1/8 - 1/4 (0.204 mi.)</b>	<b>C14</b>	<b>32</b>

## EXECUTIVE SUMMARY

### **Federal ERNS list**

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2009 has revealed that there are 2 ERNS sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CAPE VERDE WAREHOUSE-10 SOUTH 15 SOUTH ST.	CAPE VERDE WAREHOUSE-10 15 SOUTH ST.	NNW 0 - 1/8 (0.084 mi.) WNW 0 - 1/8 (0.117 mi.)	6 B7	15 15

### **State- and tribal - equivalent CERCLIS**

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 01/15/2010 has revealed that there are 68 SHWS sites within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NORTHERN WIND SEAFOOD</b> Compliance Status: Release Action Outcome	<b>14 HASSEY ST</b>	<b>N 0 - 1/8 (0.037 mi.)</b>	<b>A2</b>	<b>7</b>
<b>NEAR SOUTH TERMINAL</b> Compliance Status: Adequately Regulated	<b>16 HASSEY ST</b>	<b>N 0 - 1/8 (0.042 mi.)</b>	<b>3</b>	<b>11</b>
<b>NO LOCATION AID</b> Compliance Status: Release Action Outcome	<b>15 SOUTH ST</b>	<b>WNW 0 - 1/8 (0.117 mi.)</b>	<b>B8</b>	<b>15</b>
<b>PIER FISH COMPANY</b> Compliance Status: Release Action Outcome	<b>68 CONWAY ST</b>	<b>NW 1/8 - 1/4 (0.195 mi.)</b>	<b>C12</b>	<b>27</b>
<b>ATLANTIC COAST FISHERIES</b> Compliance Status: Release Action Outcome	<b>CAPE ST</b>	<b>NNW 1/8 - 1/4 (0.219 mi.)</b>	<b>C17</b>	<b>42</b>
<b>SRTA</b> Compliance Status: Response Action Outcome Not Required	<b>65 POTOMSKA ST</b>	<b>WSW 1/8 - 1/4 (0.248 mi.)</b>	<b>D19</b>	<b>47</b>
<b>LOT 4</b> Compliance Status: Release Action Outcome	<b>BLACKMER ST</b>	<b>SSW 1/4 - 1/2 (0.307 mi.)</b>	<b>E21</b>	<b>54</b>
<b>DARN-IT, INC. LOADING DOCK</b> Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome <i>*Additional key fields are available in the Map Findings section</i>	<b>84 GIFFORD ST</b>	<b>SSW 1/4 - 1/2 (0.435 mi.)</b>	<b>24</b>	<b>73</b>
<b>STANDARD TAXI</b> Compliance Status: Tier II Release .	<b>241 COUNTY ST</b>	<b>W 1/4 - 1/2 (0.453 mi.)</b>	<b>25</b>	<b>79</b>
<b>ATLANTIC ELEVATOR &amp; GARAGE</b> Compliance Status: Release Action Outcome	<b>128 GRINNELL ST</b>	<b>W 1/4 - 1/2 (0.467 mi.)</b>	<b>26</b>	<b>83</b>
<b>SPRAGUE ENERGY</b> Compliance Status: Release Action Outcome	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F28</b>	<b>92</b>
<b>GLOBAL OIL FACILITY</b> Compliance Status: Release Action Outcome Compliance Status: Adequately Regulated	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F29</b>	<b>95</b>
<b>MORSE CUTTING TOOLS</b> Compliance Status: Tier 1B Release.	<b>163 PLEASANT STREET</b>	<b>WNW 1/2 - 1 (0.515 mi.)</b>	<b>G31</b>	<b>103</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MORSE CUTTING TOOLS FMR</b> Compliance Status: Tier 1B Release.	<b>163 PLEASANT ST</b>	<b>WNW 1/2 - 1 (0.515 mi.)</b>	<b>G32</b>	<b>128</b>
<b>ALLEY WAY OF BILDING</b> Compliance Status: Release Action Outcome	<b>21 COVE ST</b>	<b>SSE 1/2 - 1 (0.534 mi.)</b>	<b>34</b>	<b>136</b>
<b>DARTMOUTH FINISHING</b> Compliance Status: Release Action Outcome	<b>45 COVE STREET</b>	<b>S 1/2 - 1 (0.555 mi.)</b>	<b>35</b>	<b>139</b>
<b>NO LOCATION AID</b> Compliance Status: Release Action Outcome Compliance Status: URAM	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H37</b>	<b>165</b>
<b>NEW BEDFORD OCEANARIUM</b> Compliance Status: Tier 1B Release.	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H39</b>	<b>178</b>
<b>CANNON ST STATION</b> Compliance Status: Release Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H42</b>	<b>204</b>
<b>COMM ELECTRIC POWER PLANT FMR</b> Compliance Status: Release Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H43</b>	<b>209</b>
<b>SOUTH TRANSFORMER YARD</b> Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H44</b>	<b>212</b>
<b>NO LOCATION AID</b> Compliance Status: Tier 1D Release.	<b>104 WINSOR ST</b>	<b>SW 1/2 - 1 (0.689 mi.)</b>	<b>46</b>	<b>221</b>
<b>TEXIERA RESIDENCE</b> Compliance Status: Release Action Outcome	<b>138-140 ROCKLAND ST</b>	<b>WSW 1/2 - 1 (0.703 mi.)</b>	<b>47</b>	<b>224</b>
<b>MAP 46 LOTS 160 &amp; 163</b> Compliance Status: Unclassified	<b>WALNUT / PLEASANT ST</b>	<b>NW 1/2 - 1 (0.726 mi.)</b>	<b>49</b>	<b>231</b>
<b>Not reported</b> Compliance Status: Adequately Regulated	<b>STATE PIER</b>	<b>N 1/2 - 1 (0.744 mi.)</b>	<b>J53</b>	<b>242</b>
<b>NEW BEDFORD HARBOR</b> Compliance Status: Tier 1A Release.	<b>ACUSHNET ESTUARY</b>	<b>NNW 1/2 - 1 (0.744 mi.)</b>	<b>J54</b>	<b>247</b>
<b>FINICKY PET FOOD INC</b> Compliance Status: Release Action Outcome	<b>16 FRONT ST</b>	<b>NNW 1/2 - 1 (0.769 mi.)</b>	<b>K55</b>	<b>249</b>
<b>DELKEN CO</b> Compliance Status: Release Action Outcome	<b>16 FRONT ST</b>	<b>NNW 1/2 - 1 (0.769 mi.)</b>	<b>K56</b>	<b>253</b>
<b>NBPD PARKING LOT</b> Compliance Status: Release Action Outcome	<b>25 SPRING ST</b>	<b>NW 1/2 - 1 (0.776 mi.)</b>	<b>57</b>	<b>261</b>
<b>MOTT STREET PARK</b> Compliance Status: Release Action Outcome	<b>99 CLEVELAND ST</b>	<b>SSE 1/2 - 1 (0.780 mi.)</b>	<b>58</b>	<b>263</b>
<b>PROPERTY</b> Compliance Status: Release Action Outcome	<b>486 SOUTH ORCHARD ST</b>	<b>WSW 1/2 - 1 (0.781 mi.)</b>	<b>L59</b>	<b>265</b>
<b>REAR OF PROPERTY</b> Compliance Status: Release Action Outcome	<b>89 WEST RODNEY FRENCH B S</b>	<b>1/2 - 1 (0.783 mi.)</b>	<b>60</b>	<b>276</b>
<b>LEONARDS WHARF</b> Compliance Status: Release Action Outcome	<b>84 FRONT ST</b>	<b>NNW 1/2 - 1 (0.800 mi.)</b>	<b>K62</b>	<b>292</b>
<b>NO LOCATION AID</b> Compliance Status: URAM	<b>122-132 FRONT ST</b>	<b>NNW 1/2 - 1 (0.817 mi.)</b>	<b>K63</b>	<b>298</b>
<b>MERIT GAS STATION</b> Compliance Status: Release Action Outcome	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M64</b>	<b>300</b>
<b>HESS CORP</b> Compliance Status: Response Action Outcome Not Required	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M65</b>	<b>303</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NO LOCATION AID</b> Compliance Status: Response Action Outcome Not Required Compliance Status: Response Action Outcome Not Required	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M66</b>	<b>329</b>
<b>PLEASANT ST</b> Compliance Status: Release Action Outcome	<b>66 SPRING ST</b>	<b>NW 1/2 - 1 (0.827 mi.)</b>	<b>N68</b>	<b>341</b>
<b>WATERWAY</b> Compliance Status: Adequately Regulated	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P70</b>	<b>352</b>
<b>NEW BEDFORD HARBOR</b> Compliance Status: Adequately Regulated	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P72</b>	<b>357</b>
<b>CRYSTAL ICE</b> Compliance Status: Adequately Regulated	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P73</b>	<b>358</b>
<b>INTER-CHURCH COUNCIL GREATER N</b> Compliance Status: Release Action Outcome	<b>412 COUNTY ST</b>	<b>NW 1/2 - 1 (0.835 mi.)</b>	<b>74</b>	<b>360</b>
<b>FV LEGACY</b> Compliance Status: Release Action Outcome	<b>50 FORT ST</b>	<b>ENE 1/2 - 1 (0.838 mi.)</b>	<b>O75</b>	<b>363</b>
<b>FAIRHAVEN SHIPYARD &amp; MARINA IN</b> Compliance Status: Adequately Regulated	<b>50 FORT ST</b>	<b>ENE 1/2 - 1 (0.838 mi.)</b>	<b>O76</b>	<b>368</b>
<b>FAIRHAVEN SHIPYARD &amp; MARINA</b> Compliance Status: Release Action Outcome	<b>50 FORT ST</b>	<b>ENE 1/2 - 1 (0.838 mi.)</b>	<b>O77</b>	<b>370</b>
<b>184 UNION @ PURCHASE</b> Compliance Status: Submittal Invalidated by DEP	<b>185-187 UNION ST</b>	<b>NW 1/2 - 1 (0.846 mi.)</b>	<b>79</b>	<b>381</b>
<b>PRIMA CARE VISION CENTER</b> Compliance Status: Release Action Outcome	<b>74 SPRING ST</b>	<b>NW 1/2 - 1 (0.847 mi.)</b>	<b>N80</b>	<b>387</b>
<b>REIDARS MANUFACTURING</b> Compliance Status: Release Action Outcome	<b>10 WATER ST</b>	<b>NE 1/2 - 1 (0.854 mi.)</b>	<b>81</b>	<b>393</b>
<b>HATHAWAY BRALEY FMR</b> Compliance Status: Remedy Operation Status Compliance Status: Response Action Outcome Not Required	<b>14 MAIN ST</b>	<b>NE 1/2 - 1 (0.881 mi.)</b>	<b>83</b>	<b>410</b>
<b>CUMBERLAND FARMS</b> Compliance Status: Release Action Outcome	<b>775 BROOK AVE</b>	<b>S 1/2 - 1 (0.888 mi.)</b>	<b>Q85</b>	<b>436</b>
<b>DN KELLEY &amp; SONS SHIPYARD</b> Compliance Status: Adequately Regulated	<b>32 WATER ST</b>	<b>NE 1/2 - 1 (0.890 mi.)</b>	<b>R86</b>	<b>439</b>
<b>UNION WARF</b> Compliance Status: Release Action Outcome	<b>WATER / UNION ST</b>	<b>NE 1/2 - 1 (0.890 mi.)</b>	<b>R88</b>	<b>447</b>
<b>NO LOCATION AID</b> Compliance Status: Release Action Outcome Compliance Status: Release Action Outcome	<b>127 WEST RODNEY FRENCH</b>	<b>S 1/2 - 1 (0.898 mi.)</b>	<b>89</b>	<b>457</b>
<b>NO LOCATION AID</b> Compliance Status: Release Action Outcome	<b>1337 COVE RD</b>	<b>SW 1/2 - 1 (0.903 mi.)</b>	<b>S90</b>	<b>461</b>
<b>BELL ATLANTIC CENTRAL OFFICE</b> Compliance Status: Release Action Outcome	<b>390 ACHUSNET AVE</b>	<b>NNW 1/2 - 1 (0.924 mi.)</b>	<b>T92</b>	<b>470</b>
<b>ADJACENT TO ELM ST GARAGE &amp; RT</b> Compliance Status: Release Action Outcome	<b>ELM ST PARCEL 19</b>	<b>NNW 1/2 - 1 (0.932 mi.)</b>	<b>T93</b>	<b>474</b>
<b>NO LOCATION AID</b> Compliance Status: Release Action Outcome	<b>1 FISH ISLAND RD</b>	<b>NNW 1/2 - 1 (0.972 mi.)</b>	<b>95</b>	<b>481</b>
<b>NO LOCATION AID</b> Compliance Status: Downgradient Property Status	<b>71 MECHANICS LN</b>	<b>NW 1 - 2 (1.017 mi.)</b>	<b>97</b>	<b>493</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ROOSEVELT JUNIOR HIGH SCHOOL</b> Compliance Status: Release Action Outcome	<b>120 DENNIS ST</b>	<b>S 1 - 2 (1.022 mi.)</b>	<b>U99</b>	<b>503</b>
<b>Not reported</b> Compliance Status: Release Action Outcome	<b>725 PLEASANT ST</b>	<b>NNW 1 - 2 (1.054 mi.)</b>	<b>V101</b>	<b>513</b>
<b>NO LOCATION AID</b> Compliance Status: Release Action Outcome	<b>800 PLEASANT ST</b>	<b>NNW 1 - 2 (1.060 mi.)</b>	<b>V102</b>	<b>519</b>
<b>ST LUKES HOSPITAL</b> Compliance Status: Release Action Outcome	<b>101 PAGE STREET</b>	<b>W 1 - 2 (1.070 mi.)</b>	<b>104</b>	<b>540</b>
<b>NO LOCATION AID</b> Compliance Status: Tier II Release .	<b>67-69 MIDDLE ST</b>	<b>NNE 1 - 2 (1.074 mi.)</b>	<b>W106</b>	<b>551</b>
<b>FORMER PARK MOTORS</b> Compliance Status: Response Action Outcome Not Required Compliance Status: Response Action Outcome Not Required	<b>67-69 MIDDLE ST</b>	<b>NNE 1 - 2 (1.074 mi.)</b>	<b>W107</b>	<b>560</b>
<b>BOATING CLUB</b> Compliance Status: Release Action Outcome	<b>80 MIDDLE ST</b>	<b>NNE 1 - 2 (1.098 mi.)</b>	<b>W108</b>	<b>569</b>
<b>NIEMIEC MARINE</b> Compliance Status: Tier 1D Release.	<b>173 POPES IS</b>	<b>N 1 - 2 (1.112 mi.)</b>	<b>X110</b>	<b>593</b>
<b>RIVERSIDE COMPLEX FMR</b> Compliance Status: Release Action Outcome	<b>POPESS IS</b>	<b>N 1 - 2 (1.117 mi.)</b>	<b>X111</b>	<b>594</b>
<b>NO LOCATION AID</b> Compliance Status: Adequately Regulated Compliance Status: Adequately Regulated <i>*Additional key fields are available in the Map Findings section</i>	<b>POPESS IS</b>	<b>N 1 - 2 (1.117 mi.)</b>	<b>X112</b>	<b>596</b>

### **State and tribal leaking storage tank lists**

LUST: Sites within the Releases Database that have a UST listed as its source.

A review of the LUST list, as provided by EDR, and dated 01/15/2010 has revealed that there are 4 LUST sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GETTY</b> Facility Status: Response Action Outcome	<b>56 POTOMSKA ST</b>	<b>WSW 1/8 - 1/4 (0.218 mi.)</b>	<b>D16</b>	<b>35</b>
<b>SOUTHEAST TRANSIT AUTHORITY</b> Facility Status: Response Action Outcome	<b>75 POTOMSKA ST</b>	<b>WSW 1/4 - 1/2 (0.280 mi.)</b>	<b>20</b>	<b>49</b>
<b>ACUSNET AVE SCHOOL FMR</b> Facility Status: Response Action Outcome	<b>266 PURCHASE ST</b>	<b>W 1/4 - 1/2 (0.419 mi.)</b>	<b>23</b>	<b>69</b>
<b>BERKSHIRE HATHAWAY INC</b> Facility Status: Response Action Outcome	<b>97 COVE ST</b>	<b>S 1/2 - 1 (0.571 mi.)</b>	<b>36</b>	<b>153</b>

## EXECUTIVE SUMMARY

LAST: The Leaking Aboveground Storage Tanks database

A review of the LAST list, as provided by EDR, and dated 01/15/2010 has revealed that there are 3 LAST sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SPRAGUE ENERGY CORP</b> Facility Status: Response Action Outcome	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F27</b>	<b>86</b>
<b>GLOBAL OIL FACILITY</b> Facility Status: Response Action Outcome	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F29</b>	<b>95</b>
<b>NSTAR ELECTRIC GAS</b> Facility Status: Response Action Outcome Not Required	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H41</b>	<b>195</b>

### **State and tribal registered storage tank lists**

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the UST list, as provided by EDR, and dated 12/04/2009 has revealed that there are 2 UST sites within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>YELLOWBIRD MOTOR LINES INC</b>	<b>85 CONWAY ST</b>	<b>NW 1/8 - 1/4 (0.204 mi.)</b>	<b>C13</b>	<b>31</b>
<b>GETTY</b>	<b>56 POTOMSKA ST</b>	<b>WSW 1/8 - 1/4 (0.218 mi.)</b>	<b>D16</b>	<b>35</b>

### **State and tribal institutional control / engineering control registries**

INST CONTROL: Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

A review of the INST CONTROL list, as provided by EDR, and dated 01/15/2010 has revealed that there are 2 INST CONTROL sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LOT 4</b>	<b>BLACKMER ST</b>	<b>SSW 1/4 - 1/2 (0.307 mi.)</b>	<b>E21</b>	<b>54</b>
<b>BERKSHIRE HATHAWAY INC</b>	<b>97 COVE ST</b>	<b>S 1/2 - 1 (0.571 mi.)</b>	<b>36</b>	<b>153</b>

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

US BROWNFIELDS: The EPA's listing of Brownfields properties addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 10/01/2009 has revealed that there

## EXECUTIVE SUMMARY

is 1 US BROWNFIELDS site within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
STANDARD TIMES FIELD LOT 9G	FRONT STREET	SSW 1/4 - 1/2 (0.334 mi.)	E22	66

### **Records of Emergency Release Reports**

SPILLS: This historical spills list includes sudden releases reported to DEP from the mid-1980's through September 30, 1993. The list has been archived and will not undergo further updates. The source is the Department of Environmental Protection's Spills Database.

A review of the SPILLS list, as provided by EDR, and dated 09/30/1993 has revealed that there are 2 SPILLS sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NORTHERN WIND	33 WRIGHT ST	WSW 0 - 1/8 (0.018 mi.)	A1	7
TRI ALLEGO FISH PLANT	62 HASSEY ST	N 0 - 1/8 (0.121 mi.)	9	18

RELEASE: MA Release Tracking Database.

A review of the RELEASE list, as provided by EDR, and dated 01/15/2010 has revealed that there are 98 RELEASE sites within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NORTHERN WIND SEAFOOD</b> Facility Status: Response Action Outcome	<b>14 HASSEY ST</b>	<b>N 0 - 1/8 (0.037 mi.)</b>	<b>A2</b>	<b>7</b>
<b>NEAR SOUTH TERMINAL</b> <b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>16 HASSEY ST</b> <b>15 SOUTH ST</b>	<b>N 0 - 1/8 (0.042 mi.)</b> <b>WNW 0 - 1/8 (0.117 mi.)</b>	<b>3</b> <b>B8</b>	<b>11</b> <b>15</b>
<b>PIER FISH COMPANY</b> Facility Status: Response Action Outcome	<b>68 CONWAY ST</b>	<b>NW 1/8 - 1/4 (0.195 mi.)</b>	<b>C12</b>	<b>27</b>
<b>GETTY</b> Facility Status: Response Action Outcome	<b>56 POTOMSKA ST</b>	<b>WSW 1/8 - 1/4 (0.218 mi.)</b>	<b>D16</b>	<b>35</b>
<b>ATLANTIC COAST FISHERIES</b> Facility Status: Response Action Outcome	<b>CAPE ST</b>	<b>NNW 1/8 - 1/4 (0.219 mi.)</b>	<b>C17</b>	<b>42</b>
<b>SRTA</b> Facility Status: Response Action Outcome Not Required	<b>65 POTOMSKA ST</b>	<b>WSW 1/8 - 1/4 (0.248 mi.)</b>	<b>D19</b>	<b>47</b>
<b>SOUTHEAST TRANSIT AUTHORITY</b> Facility Status: Response Action Outcome	<b>75 POTOMSKA ST</b>	<b>WSW 1/4 - 1/2 (0.280 mi.)</b>	<b>20</b>	<b>49</b>
<b>LOT 4</b> Facility Status: Response Action Outcome	<b>BLACKMER ST</b>	<b>SSW 1/4 - 1/2 (0.307 mi.)</b>	<b>E21</b>	<b>54</b>
<b>ACUSNET AVE SCHOOL FMR</b> Facility Status: Response Action Outcome	<b>266 PURCHASE ST</b>	<b>W 1/4 - 1/2 (0.419 mi.)</b>	<b>23</b>	<b>69</b>
<b>DARN-IT, INC. LOADING DOCK</b> Facility Status: Response Action Outcome Facility Status: Response Action Outcome	<b>84 GIFFORD ST</b>	<b>SSW 1/4 - 1/2 (0.435 mi.)</b>	<b>24</b>	<b>73</b>
<b>STANDARD TAXI</b>	<b>241 COUNTY ST</b>	<b>W 1/4 - 1/2 (0.453 mi.)</b>	<b>25</b>	<b>79</b>
<b>ATLANTIC ELEVATOR &amp; GARAGE</b> Facility Status: Response Action Outcome	<b>128 GRINNELL ST</b>	<b>W 1/4 - 1/2 (0.467 mi.)</b>	<b>26</b>	<b>83</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SPRAGUE ENERGY CORP</b> Facility Status: Response Action Outcome	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F27</b>	<b>86</b>
<b>SPRAGUE ENERGY</b> Facility Status: Response Action Outcome	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F28</b>	<b>92</b>
<b>GLOBAL OIL FACILITY</b> Facility Status: Response Action Outcome Facility Status: Response Action Outcome	<b>30 PINE ST</b>	<b>NW 1/4 - 1/2 (0.479 mi.)</b>	<b>F29</b>	<b>95</b>
<b>MORSE CUTTING TOOLS</b>	<b>163 PLEASANT STREET</b>	<b>WNW 1/2 - 1 (0.515 mi.)</b>	<b>G31</b>	<b>103</b>
<b>MORSE CUTTING TOOLS FMR</b>	<b>163 PLEASANT ST</b>	<b>WNW 1/2 - 1 (0.515 mi.)</b>	<b>G32</b>	<b>128</b>
<b>ALLEY WAY OF BILDING</b> Facility Status: Response Action Outcome	<b>21 COVE ST</b>	<b>SSE 1/2 - 1 (0.534 mi.)</b>	<b>34</b>	<b>136</b>
<b>DARTMOUTH FINISHING</b> Facility Status: Response Action Outcome	<b>45 COVE STREET</b>	<b>S 1/2 - 1 (0.555 mi.)</b>	<b>35</b>	<b>139</b>
<b>BERKSHIRE HATHAWAY INC</b> Facility Status: Response Action Outcome	<b>97 COVE ST</b>	<b>S 1/2 - 1 (0.571 mi.)</b>	<b>36</b>	<b>153</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H37</b>	<b>165</b>
<b>NEW BEDFORD OCEANARIUM</b>	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H39</b>	<b>178</b>
<b>NSTAR ELECTRIC GAS</b> Facility Status: Response Action Outcome Not Required	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H41</b>	<b>195</b>
<b>CANNON ST STATION</b> Facility Status: Response Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H42</b>	<b>204</b>
<b>COMM ELECTRIC POWER PLANT FMR</b> Facility Status: Response Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H43</b>	<b>209</b>
<b>SOUTH TRANSFORMER YARD</b> Facility Status: Response Action Outcome Facility Status: Response Action Outcome	<b>180 MACARTHUR DR</b>	<b>NNW 1/2 - 1 (0.605 mi.)</b>	<b>H44</b>	<b>212</b>
<b>Not reported</b> Facility Status: Response Action Outcome	<b>545 PURCHASE ST</b>	<b>NW 1/2 - 1 (0.657 mi.)</b>	<b>45</b>	<b>218</b>
<b>NO LOCATION AID</b>	<b>104 WINSOR ST</b>	<b>SW 1/2 - 1 (0.689 mi.)</b>	<b>46</b>	<b>221</b>
<b>TEXIERA RESIDENCE</b> Facility Status: Response Action Outcome	<b>138-140 ROCKLAND ST</b>	<b>WSW 1/2 - 1 (0.703 mi.)</b>	<b>47</b>	<b>224</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>51 CLEVELAND ST</b>	<b>SSE 1/2 - 1 (0.705 mi.)</b>	<b>48</b>	<b>228</b>
<b>MAP 46 LOTS 160 &amp; 163</b> Facility Status: Unclassified Waste Site	<b>WALNUT / PLEASANT ST</b>	<b>NW 1/2 - 1 (0.726 mi.)</b>	<b>49</b>	<b>231</b>
<b>DOYLE SQ SERVICE STATION</b>	<b>20 DARTMOUTH ST</b>	<b>W 1/2 - 1 (0.730 mi.)</b>	<b>I50</b>	<b>233</b>
<b>GROTAS MOTORS</b>	<b>1163 COVE RD</b>	<b>SSW 1/2 - 1 (0.730 mi.)</b>	<b>51</b>	<b>235</b>
<b>METRO PIZZA</b> Facility Status: Response Action Outcome	<b>32 DARTMOUTH ST</b>	<b>W 1/2 - 1 (0.739 mi.)</b>	<b>I52</b>	<b>238</b>
<b>Not reported</b>	<b>STATE PIER</b>	<b>N 1/2 - 1 (0.744 mi.)</b>	<b>J53</b>	<b>242</b>
<b>NEW BEDFORD HARBOR</b>	<b>ACUSHNET ESTUARY</b>	<b>NNW 1/2 - 1 (0.744 mi.)</b>	<b>J54</b>	<b>247</b>
<b>FINICKY PET FOOD INC</b> Facility Status: Response Action Outcome	<b>16 FRONT ST</b>	<b>NNW 1/2 - 1 (0.769 mi.)</b>	<b>K55</b>	<b>249</b>
<b>DELKEN CO</b> Facility Status: Response Action Outcome	<b>16 FRONT ST</b>	<b>NNW 1/2 - 1 (0.769 mi.)</b>	<b>K56</b>	<b>253</b>
<b>NBPD PARKING LOT</b> Facility Status: Response Action Outcome	<b>25 SPRING ST</b>	<b>NW 1/2 - 1 (0.776 mi.)</b>	<b>57</b>	<b>261</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MOTT STREET PARK</b> Facility Status: Response Action Outcome	<b>99 CLEVELAND ST</b>	<b>SSE 1/2 - 1 (0.780 mi.)</b>	<b>58</b>	<b>263</b>
<b>PROPERTY</b> Facility Status: Response Action Outcome	<b>486 SOUTH ORCHARD ST</b>	<b>WSW 1/2 - 1 (0.781 mi.)</b>	<b>L59</b>	<b>265</b>
<b>REAR OF PROPERTY</b> Facility Status: Response Action Outcome	<b>89 WEST RODNEY FRENCH BS 1/2 - 1 (0.783 mi.)</b>		<b>60</b>	<b>276</b>
<b>GOODYEAR TIRE &amp; RUBBER</b> Facility Status: Response Action Outcome	<b>545 ORCHARD ST</b>	<b>WSW 1/2 - 1 (0.793 mi.)</b>	<b>L61</b>	<b>278</b>
<b>LEONARDS WHARF</b> Facility Status: Response Action Outcome	<b>84 FRONT ST</b>	<b>NNW 1/2 - 1 (0.800 mi.)</b>	<b>K62</b>	<b>292</b>
<b>NO LOCATION AID</b>	<b>122-132 FRONT ST</b>	<b>NNW 1/2 - 1 (0.817 mi.)</b>	<b>K63</b>	<b>298</b>
<b>MERIT GAS STATION</b> Facility Status: Response Action Outcome	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M64</b>	<b>300</b>
<b>HESS CORP</b> Facility Status: Response Action Outcome Not Required	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M65</b>	<b>303</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome Not Required Facility Status: Response Action Outcome Not Required	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M66</b>	<b>329</b>
<b>HESS 21504</b> Facility Status: Response Action Outcome	<b>1253 COVE RD</b>	<b>SW 1/2 - 1 (0.818 mi.)</b>	<b>M67</b>	<b>336</b>
<b>PLEASANT ST</b> Facility Status: Response Action Outcome	<b>66 SPRING ST</b>	<b>NW 1/2 - 1 (0.827 mi.)</b>	<b>N68</b>	<b>341</b>
<b>JUDGE RESIDENCE</b> Facility Status: Response Action Outcome	<b>41 FORT ST</b>	<b>ENE 1/2 - 1 (0.829 mi.)</b>	<b>O69</b>	<b>347</b>
<b>WATERWAY</b>	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P70</b>	<b>352</b>
<b>SEA FUELS</b> Facility Status: Response Action Outcome	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P71</b>	<b>354</b>
<b>NEW BEDFORD HARBOR</b>	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P72</b>	<b>357</b>
<b>CRYSTAL ICE</b>	<b>PIER 3</b>	<b>NNW 1/2 - 1 (0.829 mi.)</b>	<b>P73</b>	<b>358</b>
<b>INTER-CHURCH COUNCIL GREATER N</b> Facility Status: Response Action Outcome	<b>412 COUNTY ST</b>	<b>NW 1/2 - 1 (0.835 mi.)</b>	<b>74</b>	<b>360</b>
<b>FV LEGACY</b> Facility Status: Response Action Outcome	<b>50 FORT ST</b>	<b>ENE 1/2 - 1 (0.838 mi.)</b>	<b>O75</b>	<b>363</b>
<b>FAIRHAVEN SHIPYARD &amp; MARINA IN</b>	<b>50 FORT ST</b>	<b>ENE 1/2 - 1 (0.838 mi.)</b>	<b>O76</b>	<b>368</b>
<b>FAIRHAVEN SHIPYARD &amp; MARINA</b> Facility Status: Response Action Outcome	<b>50 FORT ST</b>	<b>ENE 1/2 - 1 (0.838 mi.)</b>	<b>O77</b>	<b>370</b>
<b>NO LOCATION AID</b>	<b>343 ACUSHNET AVE</b>	<b>NNW 1/2 - 1 (0.841 mi.)</b>	<b>78</b>	<b>376</b>
<b>184 UNION @ PURCHASE</b>	<b>185-187 UNION ST</b>	<b>NW 1/2 - 1 (0.846 mi.)</b>	<b>79</b>	<b>381</b>
<b>PRIMA CARE VISION CENTER</b> Facility Status: Response Action Outcome	<b>74 SPRING ST</b>	<b>NW 1/2 - 1 (0.847 mi.)</b>	<b>N80</b>	<b>387</b>
<b>REIDARS MANUFACTURING</b> Facility Status: Response Action Outcome	<b>10 WATER ST</b>	<b>NE 1/2 - 1 (0.854 mi.)</b>	<b>81</b>	<b>393</b>
<b>MAY INSTITUTE</b> Facility Status: Response Action Outcome	<b>9 SOUTH 6TH ST</b>	<b>NW 1/2 - 1 (0.860 mi.)</b>	<b>N82</b>	<b>405</b>
<b>HATHAWAY BRALEY FMR</b> Facility Status: Response Action Outcome Not Required Facility Status: Response Action Outcome Not Required	<b>14 MAIN ST</b>	<b>NE 1/2 - 1 (0.881 mi.)</b>	<b>83</b>	<b>410</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>775 BROCK AVE</b>	<b>S 1/2 - 1 (0.888 mi.)</b>	<b>Q84</b>	<b>432</b>

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<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CUMBERLAND FARMS</b> Facility Status: Response Action Outcome	<b>775 BROOK AVE</b>	<b>S 1/2 - 1 (0.888 mi.)</b>	<b>Q85</b>	<b>436</b>
<b>DN KELLEY &amp; SONS SHIPYARD</b>	<b>32 WATER ST</b>	<b>NE 1/2 - 1 (0.890 mi.)</b>	<b>R86</b>	<b>439</b>
<b>DN KELLEY &amp; SON</b> Facility Status: DEP No Further Action	<b>32 WATER ST</b>	<b>NE 1/2 - 1 (0.890 mi.)</b>	<b>R87</b>	<b>441</b>
<b>UNION WARF</b> Facility Status: Response Action Outcome	<b>WATER / UNION ST</b>	<b>NE 1/2 - 1 (0.890 mi.)</b>	<b>R88</b>	<b>447</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome Facility Status: Response Action Outcome	<b>127 WEST RODNEY FRENCH</b>	<b>S 1/2 - 1 (0.898 mi.)</b>	<b>89</b>	<b>457</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>1337 COVE RD</b>	<b>SW 1/2 - 1 (0.903 mi.)</b>	<b>S90</b>	<b>461</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>1339 COVE RD</b>	<b>SW 1/2 - 1 (0.905 mi.)</b>	<b>S91</b>	<b>465</b>
<b>BELL ATLANTIC CENTRAL OFFICE</b> Facility Status: Response Action Outcome	<b>390 ACHUSNET AVE</b>	<b>NNW 1/2 - 1 (0.924 mi.)</b>	<b>T92</b>	<b>470</b>
<b>ADJACENT TO ELM ST GARAGE &amp; RT</b> Facility Status: Response Action Outcome	<b>ELM ST PARCEL 19</b>	<b>NNW 1/2 - 1 (0.932 mi.)</b>	<b>T93</b>	<b>474</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>281 UNION ST</b>	<b>NW 1/2 - 1 (0.944 mi.)</b>	<b>94</b>	<b>477</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>1 FISH ISLAND RD</b>	<b>NNW 1/2 - 1 (0.972 mi.)</b>	<b>95</b>	<b>481</b>
<b>ROOSEVELT JR HIGH SCHOOL</b> Facility Status: Response Action Outcome	<b>ROOSEVELT AVE</b>	<b>SSE 1/2 - 1 (0.995 mi.)</b>	<b>U96</b>	<b>489</b>
<b>NO LOCATION AID</b> Facility Status: Downgradient Property Status	<b>71 MECHANICS LN</b>	<b>NW 1 - 2 (1.017 mi.)</b>	<b>97</b>	<b>493</b>
<b>CJ GALLEY PILOT HOUSE</b> Facility Status: Response Action Outcome	<b>1397-1405 COVE RD</b>	<b>SW 1 - 2 (1.018 mi.)</b>	<b>98</b>	<b>500</b>
<b>ROOSEVELT JUNIOR HIGH SCHOOL</b> Facility Status: Response Action Outcome	<b>120 DENNIS ST</b>	<b>S 1 - 2 (1.022 mi.)</b>	<b>U99</b>	<b>503</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>88 GREEN ST</b>	<b>NE 1 - 2 (1.026 mi.)</b>	<b>100</b>	<b>509</b>
<b>Not reported</b> Facility Status: Response Action Outcome	<b>725 PLEASANT ST</b>	<b>NNW 1 - 2 (1.054 mi.)</b>	<b>V101</b>	<b>513</b>
<b>NO LOCATION AID</b> Facility Status: Response Action Outcome	<b>800 PLEASANT ST</b>	<b>NNW 1 - 2 (1.060 mi.)</b>	<b>V102</b>	<b>519</b>
<b>CUMBERLAND FARMS</b> Facility Status: Response Action Outcome Facility Status: Response Action Outcome	<b>68 MAIN ST</b>	<b>NNE 1 - 2 (1.064 mi.)</b>	<b>103</b>	<b>523</b>
<b>ST LUKES HOSPITAL</b> Facility Status: Response Action Outcome	<b>101 PAGE STREET</b>	<b>W 1 - 2 (1.070 mi.)</b>	<b>104</b>	<b>540</b>
<b>PARK MOTORS</b> Facility Status: Response Action Outcome	<b>67 MIDDLE ST</b>	<b>NNE 1 - 2 (1.074 mi.)</b>	<b>W105</b>	<b>548</b>
<b>NO LOCATION AID</b>	<b>67-69 MIDDLE ST</b>	<b>NNE 1 - 2 (1.074 mi.)</b>	<b>W106</b>	<b>551</b>
<b>FORMER PARK MOTORS</b> Facility Status: Response Action Outcome Not Required Facility Status: Response Action Outcome Not Required	<b>67-69 MIDDLE ST</b>	<b>NNE 1 - 2 (1.074 mi.)</b>	<b>W107</b>	<b>560</b>

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<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BOATING CLUB</b> Facility Status: Response Action Outcome	<b>80 MIDDLE ST</b>	<b>NNE 1 - 2 (1.098 mi.)</b>	<b>W108</b>	<b>569</b>
<b>GETTY</b> Facility Status: Response Action Outcome	<b>30 ROCKDALE AVE</b>	<b>SW 1 - 2 (1.107 mi.)</b>	<b>109</b>	<b>575</b>
<b>NIEMIEC MARINE</b>	<b>173 POPES IS</b>	<b>N 1 - 2 (1.112 mi.)</b>	<b>X110</b>	<b>593</b>
<b>RIVERSIDE COMPLEX FMR</b> Facility Status: Response Action Outcome	<b>POPESS IS</b>	<b>N 1 - 2 (1.117 mi.)</b>	<b>X111</b>	<b>594</b>
<b>NO LOCATION AID</b> Facility Status: DEP No Further Action	<b>POPESS IS</b>	<b>N 1 - 2 (1.117 mi.)</b>	<b>X112</b>	<b>596</b>
<b>M&amp;P AUTO SERVICE</b> Facility Status: Response Action Outcome Facility Status: Response Action Outcome Not Required	<b>364 DARTMOUTH ST</b>	<b>WSW 1 - 2 (1.120 mi.)</b>	<b>113</b>	<b>603</b>
<b>CUMBERLAND FARMS</b> Facility Status: Downgradient Property Status	<b>486 COUNTY ST</b>	<b>NW 1 - 2 (1.121 mi.)</b>	<b>Y114</b>	<b>615</b>
<b>GULF STATION</b> Facility Status: Response Action Outcome	<b>486 COUNTY ST</b>	<b>NW 1 - 2 (1.121 mi.)</b>	<b>Y115</b>	<b>619</b>

### **Other Ascertainable Records**

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 01/13/2010 has revealed that there are 2 RCRA-NonGen sites within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HARRIET TRANSPORT INC</b>	<b>63 CONWAY ST</b>	<b>NNW 1/8 - 1/4 (0.193 mi.)</b>	<b>C11</b>	<b>25</b>
<b>VARIAN ASSOCIATES LEXINGTON VA</b>	<b>114 CONWAY ST</b>	<b>NW 1/8 - 1/4 (0.221 mi.)</b>	<b>18</b>	<b>45</b>

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 10/19/2009 has revealed that there are 2 FINDS sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FOLEY FISH CO</b>	<b>77 WRIGHT ST</b>	<b>WSW 0 - 1/8 (0.057 mi.)</b>	<b>A4</b>	<b>12</b>
<b>BRODEUR C P INC</b>	<b>80 WRIGHT ST</b>	<b>WSW 0 - 1/8 (0.060 mi.)</b>	<b>A5</b>	<b>13</b>

# EXECUTIVE SUMMARY

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 3 Manufactured Gas Plants sites within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NEW BEDFORD GAS AND EDISON LIG	S WATER STREET	NW 1/4 - 1/2 (0.485 mi.)	F30	103
NEW BEDFORD GAS AND EDISON LIG	1ST STREET AND COFFIN	NW 1/2 - 1 (0.530 mi.)	33	136
COMMONWEALTH ELECTRIC	180 MACARTHUR DRIVE	NNW 1/2 - 1 (0.605 mi.)	H38	178

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
GASOLINE TANKER EAST OF RTE 240	HWS,RELEASE
BEHIND MOTEL	HWS,RELEASE
POLE #132/35	HWS,RELEASE
NEAR SEAPORT INN	HWS,RELEASE
MARSH ISLAND	CERCLIS-NFRAP,HWS,RELEASE
PROPERTY	HWS,RELEASE
EXIT 4	HWS,RELEASE
PROPERTY	HWS,RELEASE
NEAR PURCHASE ST EXIT	HWS,RELEASE
NEAR INTERSECTION OF RTE. 6	HWS,RELEASE
ELM ST	HWS,RELEASE
SOIL BORING LOCATION #13	HWS,RELEASE
ACUSHNET RIVER	HWS,RELEASE
BETWEEN EXIT 14 & 15	HWS,RELEASE
STEAMSHIP DOCK	HWS,RELEASE
AT ONEIDA ST	HWS,RELEASE
FISH ISLAND	CERCLIS-NFRAP,HWS,RELEASE
@ COGGESHALL	HWS,RELEASE
POPE'S ISLAND	CERCLIS-NFRAP
NEW BEDFORD-FAIRHAVEN BRIDGE	RELEASE, LAST
SULLIVANS LEDGE	LF
OHARA CHEVROLET FMR	LUST,RELEASE
ROADWAY/ACCIDENT	MA SPILLS
ROADWAY	MA SPILLS
FISH ISLAND	MA SPILLS
KINGS HWY PLAZA	MA SPILLS

# OVERVIEW MAP - 2707507.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

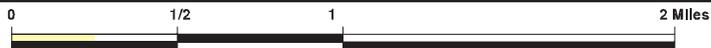
■ Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

■ Areas of Critical Environmental Concern

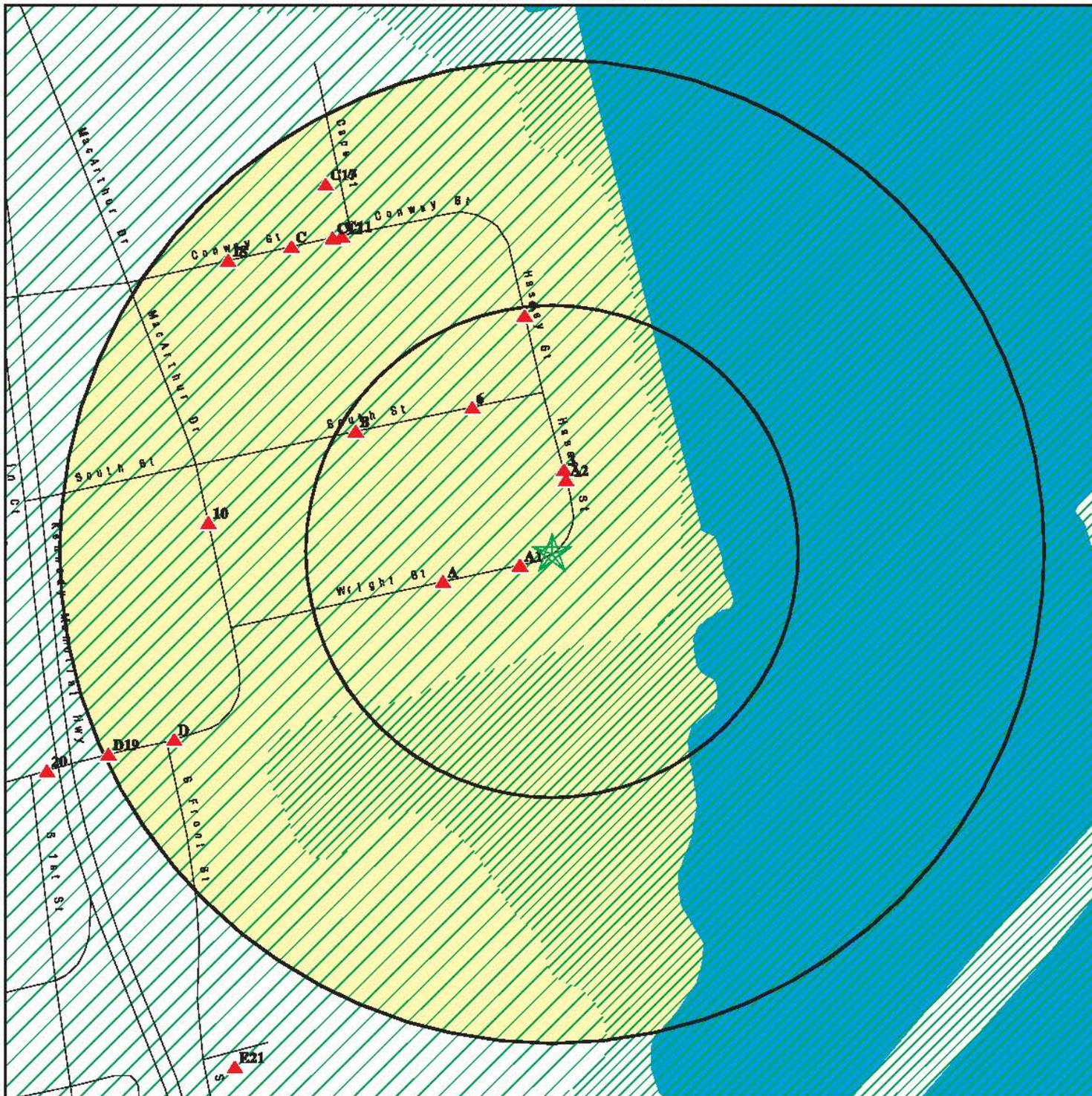


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4 Wright Street  
 ADDRESS: 4 Wright Street  
 New Bedford MA 02740  
 LAT/LONG: 41.6244 / 70.9162

CLIENT: APEX Companies LLC  
 CONTACT: Mary Bruno  
 INQUIRY #: 2707507.2s  
 DATE: February 24, 2010 3:12 pm

# DETAIL MAP - 2707507.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🏠 National Priority List Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- 🛢️ Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone

🌊 Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p><b>SITE NAME:</b> 4 Wright Street  <b>ADDRESS:</b> 4 Wright Street                  New Bedford MA 02740  <b>LAT/LONG:</b> 41.6244 / 70.9162</p>	<p><b>CLIENT:</b> APEX Companies LLC  <b>CONTACT:</b> Mary Bruno  <b>INQUIRY #:</b> 2707507.2s  <b>DATE:</b> February 24, 2010 3:13 pm</p>
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## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Federal NPL site list</i></b>								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
NPL LIENS		0.125	0	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL		1.125	0	0	0	0	0	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS		0.625	0	0	0	1	NR	1
FEDERAL FACILITY		1.125	0	0	0	0	0	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP		0.625	0	0	0	2	NR	2
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS		1.125	0	0	0	0	0	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF		0.625	0	0	0	0	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG		0.375	0	0	0	NR	NR	0
RCRA-SQG		0.375	0	0	0	NR	NR	0
RCRA-CESQG		0.375	1	2	0	NR	NR	3
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS		0.625	0	0	0	0	NR	0
US INST CONTROL		0.625	0	0	0	0	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS		0.125	2	NR	NR	NR	NR	2
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS		1.125	3	3	6	45	11	68
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF		0.625	0	0	0	0	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST		0.625	0	1	2	1	NR	4
LAST		0.625	0	0	2	1	NR	3
INDIAN LUST		0.625	0	0	0	0	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST		0.375	0	2	0	NR	NR	2

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.375	0	0	0	NR	NR	0
INDIAN UST		0.375	0	0	0	NR	NR	0
FEMA UST		0.375	0	0	0	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
INST CONTROL		0.625	0	0	1	1	NR	2
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP		0.625	0	0	0	0	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS		0.625	0	0	1	0	NR	1
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI		0.625	0	0	0	0	NR	0
DEBRIS REGION 9		0.625	0	0	0	0	NR	0
INDIAN ODI		0.625	0	0	0	0	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL		0.125	0	NR	NR	NR	NR	0
US HIST CDL		0.125	0	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2		0.125	0	NR	NR	NR	NR	0
LUCIS		0.625	0	0	0	0	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS		0.125	0	NR	NR	NR	NR	0
SPILLS		0.125	2	NR	NR	NR	NR	2
RELEASE		1.125	3	4	9	63	19	98
<b>Other Ascertainable Records</b>								
RCRA-NonGen		0.375	0	2	0	NR	NR	2
DOT OPS		0.125	0	NR	NR	NR	NR	0
DOD		1.125	0	0	0	0	0	0
FUDS		1.125	0	0	0	0	0	0
CONSENT		1.125	0	0	0	0	0	0
ROD		1.125	0	0	0	0	0	0
UMTRA		0.625	0	0	0	0	NR	0
MINES		0.375	0	0	0	NR	NR	0
TRIS		0.125	0	NR	NR	NR	NR	0
TSCA		0.125	0	NR	NR	NR	NR	0
FTTS		0.125	0	NR	NR	NR	NR	0
HIST FTTS		0.125	0	NR	NR	NR	NR	0
SSTS		0.125	0	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ICIS		0.125	0	NR	NR	NR	NR	0
PADS		0.125	0	NR	NR	NR	NR	0
MLTS		0.125	0	NR	NR	NR	NR	0
RADINFO		0.125	0	NR	NR	NR	NR	0
FINDS		0.125	2	NR	NR	NR	NR	2
RAATS		0.125	0	NR	NR	NR	NR	0
DRYCLEANERS		0.375	0	0	0	NR	NR	0
ENF		0.125	0	NR	NR	NR	NR	0
AIRS		0.125	0	NR	NR	NR	NR	0
LEAD		0.125	0	NR	NR	NR	NR	0
INDIAN RESERV		1.125	0	0	0	0	0	0
SCRD DRYCLEANERS		0.625	0	0	0	0	NR	0
COAL ASH DOE		0.125	0	NR	NR	NR	NR	0
PCB TRANSFORMER		0.125	0	NR	NR	NR	NR	0
GWDP		0.125	0	NR	NR	NR	NR	0
COAL ASH EPA		0.625	0	0	0	0	NR	0
FINANCIAL ASSURANCE		0.125	0	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants		1.125	0	0	1	2	0	3
-------------------------	--	-------	---	---	---	---	---	---

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A1**  
**WSW**  
**< 1/8**  
**0.018 mi.**  
**94 ft.**

**NORTHERN WIND**  
**33 WRIGHT ST**  
**NEW BEDFORD, MA**  
 Site 1 of 4 in cluster A

**SPILLS** **S101039367**  
**N/A**

**Relative:**  
**Equal**

MA Spills:

**Actual:**  
**0 ft.**

Facility ID: 0000  
 Staff Lead: BRENNAN, S  
 Last Entered: 19911002  
 Spill Date: 19910913  
 Report Date: 19910913  
 Case Closed: YES  
 Virgin Waste: -----  
 Env Impact: Not reported  
 Material: #2 FUEL OIL  
 Qty Reported: UNKNOWN  
 Qty Reported: -----  
 CAS No: Not reported  
 Source: -----  
 Incident: -----  
 Cleanup Type: ---  
 Referral: NO  
 Report Prep: Not reported  
 Notifier: BILL VERODONE, EPA, LEXINGTON  
 Notif Tel: Not reported  
 Days/Close: 1

Spill ID: S91-0565  
 Date Entered: Not reported  
 First Response: 19910913  
 Spill Time: Not reported  
 Report Time: Not reported  
 Mat Type: PETROLEUM  
 Contam Soil: Not reported  
 Other Impact: Not reported  
 Other Material: Not reported  
 Qty Actual: UNKNOWN  
 Qty Actual: -----  
 PCB Lev (ppm): -----  
 Other Source: Not reported  
 Other Incdnt: Not reported  
 Contractor: NOT USED  
 LUST Elig: ---  
 Category: Not reported

Facility ID: 0000  
 Staff Lead: PINAUD, L  
 Last Entered: 19930921  
 Spill Date: Not reported  
 Report Date: 19930916  
 Case Closed: YES  
 Virgin Waste: WASTE  
 Env Impact: SOIL  
 Material: OTHER MATERIAL -->  
 Qty Reported: UNKNOWN  
 Qty Reported: -----  
 CAS No: Not reported  
 Source: OTHER SOURCE >  
 Incident: DUMPING  
 Cleanup Type: ---  
 Referral: WPC  
 Report Prep: Not reported  
 Notifier: ALFRED PAMPLOMA  
 Notif Tel: Not reported  
 Days/Close: 0

Spill ID: S93-0642  
 Date Entered: Not reported  
 First Response: 19930916  
 Spill Time: Not reported  
 Report Time: 03:00PM  
 Mat Type: NEITHER  
 Contam Soil: Not reported  
 Other Impact: Not reported  
 Other Material: BLEACH & FISH GURRIE  
 Qty Actual: UNKNOWN  
 Qty Actual: -----  
 PCB Lev (ppm): NONE  
 Other Source: DUMPING  
 Other Incdnt: Not reported  
 Contractor: NOT USED  
 LUST Elig: NO  
 Category: Not reported

**A2**  
**North**  
**< 1/8**  
**0.037 mi.**  
**196 ft.**

**NORTHERN WIND SEAFOOD**  
**14 HASSEY ST**  
**NEW BEDFORD, MA**  
 Site 2 of 4 in cluster A

**SHWS** **S103546739**  
**RELEASE** **N/A**

**Relative:**  
**Equal**

SHWS:

**Actual:**  
**0 ft.**

Facility ID: 4-0014460  
 Release Town: NEW BEDFORD  
 Notification Date: 01/13/1999  
 Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN WIND SEAFOOD (Continued)**

**S103546739**

Associated ID: Not reported  
**Compliance Status:** **Release Action Outcome**  
Status Date: 03/31/1999  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 50 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: TANKER

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/31/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/31/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 01/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN WIND SEAFOOD (Continued)**

**S103546739**

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/13/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0014460  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/13/1999  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 03/31/1999  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/31/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/31/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 01/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN WIND SEAFOOD (Continued)**

**S103546739**

Action Stat: FOLOFF  
Action Date: 01/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/13/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 50 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: TANKER

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/31/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/31/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 01/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHERN WIND SEAFOOD (Continued)**

**S103546739**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/13/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**3**  
**North**  
**< 1/8**  
**0.042 mi.**  
**221 ft.**

**NEAR SOUTH TERMINAL**  
**16 HASSEY ST**  
**NEW BEDFORD, MA**

**SHWS** **S108117400**  
**RELEASE** **N/A**

**Relative:**  
**Equal**

SHWS:  
Facility ID: 4-0017572  
Release Town: NEW BEDFORD  
Notification Date: 01/06/2003  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 01/06/2003  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

**Actual:**  
**0 ft.**

Chemical:  
Chemical: UNKNOWN OIL SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 01/06/2003  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 01/06/2003  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0017572  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/06/2003  
Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NEAR SOUTH TERMINAL (Continued)

S108117400

Facility Status: ADQREG  
Status Date: 01/06/2003  
Phase: Not reported  
Rspsn Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 01/06/2003  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 01/06/2003  
Response Action Outcome: Not reported

Chemical:  
Chemical: UNKNOWN OIL SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 01/06/2003  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 01/06/2003  
Response Action Outcome: Not reported

A4  
WSW  
< 1/8  
0.057 mi.  
303 ft.

FOLEY FISH CO  
77 WRIGHT ST  
NEW BEDFORD, MA 02740  
Site 3 of 4 in cluster A

FINDS 1009455853  
N/A

Relative:  
Equal

FINDS:

Actual:  
0 ft.

Registry ID: 110024839344  
Environmental Interest/Information System  
MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A5  
WSW  
< 1/8  
0.060 mi.  
318 ft.

**BRODEUR C P INC**  
**80 WRIGHT ST**  
**NEW BEDFORD, MA 02740**

**RCRA-CESQG**  
**FINDS**  
**MANIFEST**

**1004717016**  
**MAD981891930**

**Site 4 of 4 in cluster A**

**Relative:**  
**Equal**

RCRA-CESQG:

Date form received by agency: 10/20/1986

Facility name: BRODEUR C P INC

Facility address: 80 WRIGHT ST  
NEW BEDFORD, MA 02740

EPA ID: MAD981891930

Contact: CLEMENT-P BRODEUR

Contact address: 80 WRIGHT ST  
NEW BEDFORD, MA 02740

Contact country: US

Contact telephone: (508) 993-0334

Contact email: Not reported

EPA Region: 01

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: BRODEUR C P INC

Owner/operator address: 80 WRIGHT ST  
NEW BEDFORD, MA 02740

Owner/operator country: US

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 12/08/1991

Owner/Op end date: Not reported

Owner/operator name: CLEMENT P BRODEUR

Owner/operator address: 80 WRIGHT ST  
NEW BEDFORD, MA 02740

Owner/operator country: US

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 10/16/2004

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BRODEUR C P INC (Continued)**

**1004717016**

Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

**Hazardous Waste Summary:**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

**FINDS:**

Registry ID: 110003471804

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

**MANIFEST:**

GEN Cert Date: 5/18/1994  
Transporter Recpt Date: Not reported  
Number Of Containers: 0  
Container Type: Not reported  
Waste Code1: D001  
Waste Code2: Not reported  
Waste Code3: Not reported  
Comment: Not reported  
Fee Exempt Code: Not reported  
TSD Name: CHEM PAK CORP  
TSD ID: RID084802842  
TSD Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BRODEUR C P INC (Continued)**

**1004717016**

Date Imported: 9/11/1995  
 Transporter 2 Name: Not reported  
 Transporter 2 ID: Not reported  
 Manifest Docket Number: Not reported  
 Waste Description: Not reported  
 Quantity: Not reported  
 WT/Vol Units: Not reported  
 Item Number: Not reported  
 Transporter Name: Not reported  
 Transporter EPA ID: Not reported  
 GEN Cert Date: Not reported  
 Transporter Recpt Date: Not reported  
 Transporter 2 Recpt Date: Not reported  
 TSDf Recpt Date: Not reported  
 EPA ID: Not reported  
 Transporter 2 ID: Not reported

**6**  
**NNW**  
 < 1/8  
 0.084 mi.  
 442 ft.

**CAPE VERDE WAREHOUSE-10 SOUTH STREET**  
**CAPE VERDE WAREHOUSE-10 SOUTH STREET**  
**NEW BEDFORD, MA 02744**

**ERNS 99624140**  
**N/A**

**Relative:**  
**Higher**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**Actual:**  
**3 ft.**  
**B7**  
**WNW**  
 < 1/8  
 0.117 mi.  
 617 ft.

**15 SOUTH ST.**  
**15 SOUTH ST.**  
**NEW BEDFORD, MA 02740**  
**Site 1 of 2 in cluster B**

**ERNS 94361860**  
**N/A**

**Relative:**  
**Higher**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**Actual:**  
**4 ft.**  
**B8**  
**WNW**  
 < 1/8  
 0.117 mi.  
 617 ft.

**NO LOCATION AID**  
**15 SOUTH ST**  
**NEW BEDFORD, MA**  
**Site 2 of 2 in cluster B**

**SHWS S106513515**  
**RELEASE N/A**

**Relative:**  
**Higher**

**SHWS:**  
 Facility ID: 4-0018467  
 Release Town: NEW BEDFORD  
 Notification Date: 05/30/2004  
 Category: TWO HR  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 08/06/2004  
 Phase: Not reported  
 Response Action Outcome Class: A2  
 Oil Or Haz Material: Oil

**Actual:**  
**4 ft.**

**Chemical:**  
 Chemical: #2 FUEL OIL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106513515**

Quantity: 30 gallons

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: TANKER

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/06/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/29/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/01/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 07/01/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of a Modified Plan  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0018467  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/30/2004  
Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106513515**

Facility Status: Response Action Outcome  
Status Date: 08/06/2004  
Phase: Not reported  
Rsps Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/06/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/29/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/01/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 07/01/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

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Action Type: Release  
Action Stat: REPORT  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 30 gallons

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: TANKER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106513515**

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/06/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/29/2004  
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Action Type: Immediate Response  
Action Stat: Oral Approval of a Modified Plan  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

9  
North  
< 1/8  
0.121 mi.  
637 ft.

**TRI ALLEGO FISH PLANT  
62 HASSEY ST  
NEW BEDFORD, MA**

**SPIILLS S101026851  
N/A**

**Relative:  
Higher**

MA Spills:

Facility ID: 0000  
Staff Lead: BRENNAN, S  
Last Entered: 19900109  
Spill Date: 19891212  
Report Date: 19891214  
Case Closed: YES

Spill ID: S89-0886  
Date Entered: Not reported  
First Response: 19891214  
Spill Time: 12:00AM  
Report Time: 10:30  
Mat Type: PETROLEUM

**Actual:  
7 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TRI ALLEGO FISH PLANT (Continued)**

**S101026851**

Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	WASTE OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	OTHER SOURCE >	Other Source:	? OF CONTAINERS
Incident:	OTHER RELEASE >	Other Incdnt:	LEAKING ON PIER
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	CHF BREEN/USCG		
Notif Tel:	Not reported		
Days/Close:	1		

**10**  
**West**  
**1/8-1/4**  
**0.175 mi.**  
**924 ft.**

**BARRYS ROUTE 18 COLLISION**  
**75 MACARTHUR BLVD**  
**NEW BEDFORD, MA 02740**

**RCRA-CESQG** **1000102546**  
**FINDS** **MAD019505544**  
**MANIFEST**

**Relative:**  
**Higher**  
  
**Actual:**  
**4 ft.**

**RCRA-CESQG:**  
 Date form received by agency: 06/13/2005  
 Facility name: BARRYS ROUTE 18 COLLISION  
 Facility address: 75 MACARTHUR BLVD  
 NEW BEDFORD, MA 02740  
 EPA ID: MAD019505544  
 Contact: ROBERT ROGERS  
 Contact address: 75 MACARTHUR BLVD  
 NEW BEDFORD, MA 027400000  
 Contact country: US  
 Contact telephone: 5089921151X102  
 Contact email: Not reported  
 EPA Region: 01  
 Land type: Private  
 Classification: Conditionally Exempt Small Quantity Generator  
 Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**  
 Owner/operator name: PETER BARRY  
 Owner/operator address: 75 MACARTHUR BLVD  
 NEW BEDFORD, MA 02740  
 Owner/operator country: US  
 Owner/operator telephone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARRYS ROUTE 18 COLLISION (Continued)**

**1000102546**

Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/17/2003  
Owner/Op end date: Not reported

Owner/operator name: PETER BARRY  
Owner/operator address: 75 MACARTHUR BLVD  
NEW BEDFORD, MA 02740

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 06/17/2003  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/03/2005  
Facility name: BARRYS ROUTE 18 COLLISION  
Classification: Small Quantity Generator

Date form received by agency: 01/18/2005  
Facility name: BARRYS ROUTE 18 COLLISION  
Classification: Not a generator, verified

Date form received by agency: 06/26/1986  
Facility name: BARRYS ROUTE 18 COLLISION  
Site name: ACE AUTO BODY INC  
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARRYS ROUTE 18 COLLISION (Continued)**

**1000102546**

Waste code: D039  
Waste name: TETRACHLOROETHYLENE

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SR - 353(5)  
Area of violation: Generators - General  
Date violation determined: 06/01/2005  
Date achieved compliance: 08/18/2005  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 09/27/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1720  
Paid penalty amount: Not reported

Regulation violated: SR - 341(5)  
Area of violation: Generators - Pre-transport  
Date violation determined: 06/01/2005  
Date achieved compliance: 09/27/2005  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 09/27/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1720  
Paid penalty amount: Not reported

Regulation violated: SR - 353(6)(g)  
Area of violation: Generators - Pre-transport  
Date violation determined: 06/01/2005  
Date achieved compliance: 08/18/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARRYS ROUTE 18 COLLISION (Continued)**

**1000102546**

Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 09/27/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1720  
Paid penalty amount: Not reported

Regulation violated: SR - 801  
Area of violation: Generators - General  
Date violation determined: 06/01/2005  
Date achieved compliance: 06/03/2005  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 09/27/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1720  
Paid penalty amount: Not reported

Regulation violated: SR - 685(1)  
Area of violation: Generators - General  
Date violation determined: 09/19/1991  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 351(5)  
Area of violation: Generators - General  
Date violation determined: 09/19/1991  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(j)  
Area of violation: Generators - General  
Date violation determined: 09/19/1991  
Date achieved compliance: 02/27/1992  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARRYS ROUTE 18 COLLISION (Continued)**

**1000102546**

Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 351(9)  
Area of violation: Generators - General  
Date violation determined: 09/19/1991  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 682  
Area of violation: Generators - General  
Date violation determined: 09/19/1991  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(b)  
Area of violation: Generators - General  
Date violation determined: 09/19/1991  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 06/01/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 08/18/2005  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARRYS ROUTE 18 COLLISION (Continued)**

**1000102546**

Evaluation date: 06/01/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 09/27/2005  
Evaluation lead agency: State

Evaluation date: 06/01/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 06/03/2005  
Evaluation lead agency: State

Evaluation date: 06/01/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 08/18/2005  
Evaluation lead agency: State

Evaluation date: 02/27/1992  
Evaluation: FOLLOW-UP INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/19/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/27/1992  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110003427471

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

**MANIFEST:**

GEN Cert Date: 3/7/2008  
Transporter Recpt Date: 3/7/2008  
Number Of Containers: 1  
Container Type: DM  
Waste Code1: D035  
Waste Code2: F003  
Waste Code3: F005  
Comment: Not reported  
Fee Exempt Code: Not reported  
TSDf Name: United Oil Recovery Inc

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARRYS ROUTE 18 COLLISION (Continued)**

**1000102546**

TSDF ID: RID084802842  
TSDF Date: 3/10/2008  
Date Imported: 7/11/2008 2:23:50 PM  
Transporter 2 Name: Not reported  
Transporter 2 ID: Not reported  
Manifest Docket Number: Not reported  
Waste Description: Not reported  
Quantity: Not reported  
WT/Vol Units: Not reported  
Item Number: Not reported  
Transporter Name: Not reported  
Transporter EPA ID: Not reported  
GEN Cert Date: Not reported  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSDF Recpt Date: Not reported  
EPA ID: Not reported  
Transporter 2 ID: Not reported

**C11**  
**NNW**  
**1/8-1/4**  
**0.193 mi.**  
**1018 ft.**

**HARRIET TRANSPORT INC**  
**63 CONWAY ST**  
**NEW BEDFORD, MA 02742**

**RCRA-NonGen** **1000361795**  
**FINDS** **MAD005784327**

**Site 1 of 5 in cluster C**

**Relative:**  
**Higher**

RCRA-NonGen:

**Actual:**  
**11 ft.**

Date form received by agency: 10/09/1986  
Facility name: HARRIET TRANSPORT INC  
Facility address: 63 CONWAY ST  
NEW BEDFORD, MA 02742  
EPA ID: MAD005784327  
Mailing address: PO BOX D620  
NEW BEDFORD, MA 02742  
Contact: ROBERT SHORROCK  
Contact address: PO BOX D620  
NEW BEDFORD, MA 02742  
Contact country: US  
Contact telephone: (508) 996-6793  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: PAUL MCGOWAN  
Owner/operator address: PO BOX D620  
NEW BEDFORD, MA 02742  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/16/2004  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HARRIET TRANSPORT INC (Continued)**

**1000361795**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 06/23/1988  
Date achieved compliance: 06/23/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/23/1988  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 06/23/1988  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 06/23/1993  
Evaluation lead agency: State

FINDS:

Registry ID: 110003423199

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HARRIET TRANSPORT INC (Continued)**

**1000361795**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**C12  
 NW  
 1/8-1/4  
 0.195 mi.  
 1027 ft.**

**PIER FISH COMPANY  
 68 CONWAY ST  
 NEW BEDFORD, MA 02740**

**SHWS S108348150  
 RELEASE N/A**

**Site 2 of 5 in cluster C**

**Relative:  
 Higher**

**SHWS:**  
 Facility ID: 4-0020215  
 Release Town: NEW BEDFORD  
 Notification Date: 12/11/2006  
 Category: TWO HR  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 01/29/2007  
 Phase: Not reported  
 Response Action Outcome Class: A1  
 Oil Or Haz Material: Hazardous Material

**Actual:  
 11 ft.**

**Chemical:**  
 Chemical: ANHYDROUS AMMONIA  
 Quantity: 150 pounds

**Location:**  
 Location Type: INDUSTRIAL  
 Location Type: COMMERCIAL

**Source:**  
 Source Type: PIPE

**Action:**  
 Action Type: Response Action Outcome  
 Action Stat: Level I - Technical Screen Audit  
 Action Date: 12/01/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
 Action Stat: FLDD1U  
 Action Date: 02/11/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
 Action Stat: Completion Statement Received  
 Action Date: 01/29/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 01/29/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIER FISH COMPANY (Continued)**

**S108348150**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/15/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 12/11/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 12/11/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 12/11/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0020215  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 12/11/2006  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 01/29/2007  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/01/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/11/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIER FISH COMPANY (Continued)**

**S108348150**

Action Stat: Completion Statement Received  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/15/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 12/11/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 12/11/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 12/11/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: ANHYDROUS AMMONIA  
Quantity: 150 pounds

Location:  
Location Type: INDUSTRIAL  
Location Type: COMMERCIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/01/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIER FISH COMPANY (Continued)**

**S108348150**

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/11/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/29/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/15/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 12/11/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 12/11/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 12/11/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C13  
NW  
1/8-1/4  
0.204 mi.  
1076 ft.

**YELLOWBIRD MOTOR LINES INC**  
**85 CONWAY ST**  
**NEW BEDFORD, MA 02742**

**FINANCIAL ASSURANCE**

**UST**

**U001004852**  
**N/A**

**Site 3 of 5 in cluster C**

**Relative:**  
**Higher**

UST:  
Facility ID: 3385

**Actual:**  
**11 ft.**

Facility:  
Owner Id: 7696  
Owner: YELLOWBIRD MOTOR LINES INC  
Owner Address: 85 CONWAY ST  
Owner City,St,Zip: NEW BEDFORD, MA 02742  
Telephone: (617) 997-2961  
Description: Truck/Transport  
Fire Dept. ID: 5201  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Tank ID: 1  
**Tank Status: Removed**  
Tank Useage: Not reported  
Tank Material: Not reported  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Pressure  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000  
Contents: Diesel

Tank ID: 2  
**Tank Status: Removed**  
Tank Useage: Not reported  
Tank Material: Not reported  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Pressure  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 300  
Contents: Waste Oil

FINASS2:  
Facility Id: 3385  
Description: Truck/Transport  
Work Phone: (617) 997-2961  
Financial Resp: Commercial,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C14  
NW  
1/8-1/4  
0.204 mi.  
1076 ft.

J J TRUCK REPAIR INC  
85 CONWAY ST  
NEW BEDFORD, MA 02740

RCRA-CESQG 1004716995  
FINDS MAD981889322

Site 4 of 5 in cluster C

Relative:  
Higher

RCRA-CESQG:

Actual:  
11 ft.

Date form received by agency: 12/16/1986  
Facility name: J J TRUCK REPAIR INC  
Facility address: 85 CONWAY ST  
NEW BEDFORD, MA 02740  
EPA ID: MAD981889322  
Mailing address: PO BOX 115  
ACUSHNET, MA 02743  
Contact: JESSE JASON  
Contact address: PO BOX 115  
ACUSHNET, MA 02743  
Contact country: US  
Contact telephone: (508) 993-8907  
Contact email: Not reported  
EPA Region: 01  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: JESSE JASON  
Owner/operator address: PO BOX 115  
ACUSHNET, MA 02743  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/16/2004  
Owner/Op end date: Not reported

Owner/operator name: JJ TRUCK REPAIR INC  
Owner/operator address: PO BOX 115  
ACUSHNET, MA 02743  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 12/08/1991  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**J J TRUCK REPAIR INC (Continued)**

**1004716995**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003471172

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**D15** CAPE NEWS CO.  
**WSW** 49 POTOMSKA ST.  
**1/8-1/4** NEW BEDFORD, MA 02742  
**0.214 mi.**  
**1131 ft.** Site 1 of 3 in cluster D

**MANIFEST** S109766653  
N/A

**Relative:**  
**Equal**

CT MANIFEST:

Manifest No: CTC0300167  
Waste Occurrence: 1  
UNNA: 1993  
Hazard Class: FLAMMABLE  
US Dot Description: WASTE FLAMMABLE LIQUID, NOS  
No of Containers: 001  
Container Type: TT  
Quantity: 150  
Weight/Volume: G  
Additional Description: Y  
Handling Code: S02  
Date Record Was Last Modified: 4/27/2004  
DEO Who Last Modified Record: IG  
Manifest No: CTC0300167  
Waste Occurrence: 1  
EPA Waste Code: D001  
Recycled Waste?: F  
Date Record Was Last Modified: 4/27/2004  
DEO Who Last Modified Record: IG  
Year: 1990  
Manifest ID: CTC0300167  
TSDf EPA ID: CTD021816889  
TSDf Name: UNITED OIL RECOVERY, INC.  
TSDf Address: 136 GRACEY AVENUE  
TSDf City,St,Zip: MERIDEN, CT 06450  
TSDf Country: USA  
TSDf Telephone: Not reported  
Transport Date: 6/5/1990  
Transporter EPA ID: RID980906580  
Transporter Name: WESTERN OIL COMPANY  
Transporter Country: USA  
Transporter Phone: Not reported  
Trans 2 Date: Not reported  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
Trans 2 Address: Not reported  
Trans 2 City,St,Zip: CT  
Trans 2 Country: USA  
Trans 2 Phone: Not reported  
EPA ID: MAV000049366  
Generator Phone: 5089979346  
Generator Mailing Addr: 49 POTOMSKA ST.  
Generator Mailing Town: NEW BEDFORD  
Generator Mailing State: MA  
Generator Mailing Zip: 02742  
Generator Mailing Country: USA  
Special Handling: No  
Discrepancies: No  
Date Shipped: 6/5/1990  
Date Received: 6/5/1990  
Last modified date: 4/27/2004  
Last modified by: IG

**Actual:**  
**0 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CAPE NEWS CO. (Continued)

S109766653

Comments: Not reported

D16  
WSW  
1/8-1/4  
0.218 mi.  
1153 ft.

GETTY  
56 POTOMSKA ST  
NEW BEDFORD, MA 02740

LUST U002007821  
UST N/A  
RELEASE  
FINANCIAL ASSURANCE

Site 2 of 3 in cluster D

Relative:  
Equal

LUST:

Actual:  
0 ft.

Facility:

Facility ID: 4-0000485  
**Facility Status: Release Action Outcome**  
Status Date: 07/09/1996  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 01/15/1988  
Category: NONE  
Associated ID: Not reported  
Phase: Not reported  
Rspsn Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:

Chemical: PETROLEUM  
Quantity: Not reported

Location:

Location Type: GASSTATION

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/09/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 06/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 12/26/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVACC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U002007821**

Action Date: 09/03/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 08/27/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 04/07/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/20/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 02/10/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/23/1987  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**UST:**

Facility ID: 3484

**Facility:**

Owner Id: 139  
Owner: GETTY PETROLEUM MARKETING INC  
Owner Address: DEXTER RD & MASSASOIT AVE  
Owner City,St,Zip: EAST PROVIDENCE, RI 02914  
Telephone: (207) 799-8518  
Description: Gas Station  
Fire Dept. ID: 5201  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GETTY (Continued)

U002007821

Tank ID: 1  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 4000  
Contents: Gasoline

Tank ID: 10  
**Tank Status:** **In Use**  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 12000  
Contents: Gasoline

Tank ID: 11  
**Tank Status:** **In Use**  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 6000  
Contents: Diesel

Tank ID: 2  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 4000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GETTY (Continued)

U002007821

Contents: Gasoline

Tank ID: 3  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 4000  
Contents: Gasoline

Tank ID: 4  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 4000  
Contents: Gasoline

Tank ID: 5  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 4000  
Contents: Diesel

Tank ID: 6  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U002007821**

Serial Number: Not reported  
Aboveground: No  
Capacity: 4000  
Contents: Kerosene

Tank ID: 7  
**Tank Status: Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 8000  
Contents: Gasoline

Tank ID: 8  
**Tank Status: In Use**  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 12000  
Contents: Gasoline

Tank ID: 9  
**Tank Status: In Use**  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 10000  
Contents: Gasoline

**Release:**

Facility ID: 4-0000485  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/15/1988  
Category: NONE  
Facility Status: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U002007821**

Status Date: 07/09/1996  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/09/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 06/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 12/26/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 09/03/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 08/27/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 04/07/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/20/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 02/10/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U002007821**

reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/23/1987  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: PETROLEUM  
Quantity: Not reported

Location:  
Location Type: GASSTATION

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/09/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 06/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 12/26/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 09/03/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 08/27/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U002007821**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 04/07/1993

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/20/1989

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 02/10/1989

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/23/1987

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**FINASS2:**

Facility Id: 3484  
Description: Gas Station  
Work Phone: (207) 799-8518  
Financial Resp: State Fund, Normal

**C17  
NNW  
1/8-1/4  
0.219 mi.  
1157 ft.**

**ATLANTIC COAST FISHERIES  
CAPE ST  
NEW BEDFORD, MA**

**Site 5 of 5 in cluster C**

**SHWS S103812499  
RELEASE N/A**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0013002  
Release Town: NEW BEDFORD  
Notification Date: 05/30/1997  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 08/11/1997  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

**Actual:  
11 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ATLANTIC COAST FISHERIES (Continued)**

**S103812499**

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 20 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: VEHICLE

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/11/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/05/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 06/05/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/30/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/30/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0013002  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/30/1997  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 08/11/1997  
Phase: Not reported  
Rspns Actn Outcome Class: A2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ATLANTIC COAST FISHERIES (Continued)**

**S103812499**

Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/11/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/05/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 06/05/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/30/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/30/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 20 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: VEHICLE

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/11/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/28/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ATLANTIC COAST FISHERIES (Continued)**

**S103812499**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 06/05/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 06/05/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 05/30/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 05/30/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

18  
NW  
1/8-1/4  
0.221 mi.  
1168 ft.

**VARIAN ASSOCIATES LEXINGTON VACUUM**  
**114 CONWAY ST**  
**NEW BEDFORD, MA 02740**

**RCRA-NonGen** **1000245480**  
**FINDS** **MAD000650119**

**Relative:**  
**Higher**

RCRA-NonGen:

Date form received by agency: 10/06/1980

Facility name: VARIAN ASSOCIATES LEXINGTON VACUUM

Facility address: 114 CONWAY ST  
NEW BEDFORD, MA 02740

EPA ID: MAD000650119

Contact: JOHN MEAKINS

Contact address: 114 CONWAY ST  
NEW BEDFORD, MA 02740

Contact country: US

Contact telephone: (508) 997-7837

Contact email: Not reported

EPA Region: 01

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: VARIAN ASSOC INC

Owner/operator address: 114 CONWAY ST  
NEW BEDFORD, MA 02740

Owner/operator country: US

Owner/operator telephone: Not reported

Legal status: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VARIAN ASSOCIATES LEXINGTON VACUUM (Continued)**

**1000245480**

Owner/Operator Type: Owner  
Owner/Op start date: 10/16/2004  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

**FINDS:**

Registry ID: 110003414911

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

D19  
WSW  
1/8-1/4  
0.248 mi.  
1307 ft.

SRTA  
65 POTOMSKA ST  
NEW BEDFORD, MA  
Site 3 of 3 in cluster D

SHWS S103043654  
RELEASE N/A

Relative:  
Equal

SHWS:

Facility ID: 4-0013706  
Release Town: NEW BEDFORD  
Notification Date: 03/02/1998  
Category: 72 HR  
Associated ID: Not reported  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 05/08/1998  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Actual:  
0 ft.

Chemical:

Chemical: MOTOR OIL  
Quantity: 12 inches

Location:

Location Type: INDUSTRIAL

Source:

Source Type: PIPE

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/05/1998  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SRTA (Continued)**

**S103043654**

Action Date: 03/02/1998  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0013706  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/02/1998  
Category: 72 HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 05/08/1998  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/05/1998  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Chemical:

Chemical: MOTOR OIL  
Quantity: 12 inches

Location:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SRTA (Continued)**

**S103043654**

Location Type: INDUSTRIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/08/1998  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/05/1998  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 03/02/1998  
Response Action Outcome: Not reported

20  
WSW  
1/4-1/2  
0.280 mi.  
1476 ft.

**SOUTHEAST TRANSIT AUTHORITY**  
**75 POTOMSKA ST**  
**NEW BEDFORD, MA 02740**

**LUST S100829287**  
**RELEASE N/A**

**Relative:**  
**Equal**

LUST:

**Actual:**  
**0 ft.**

Facility:  
Facility ID: 4-0000714  
**Facility Status: Release Action Outcome**  
Status Date: 05/27/1999  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 10/15/1989  
Category: NONE  
Associated ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHEAST TRANSIT AUTHORITY (Continued)**

**S100829287**

Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: PETROLEUM  
Quantity: Not reported

Location:  
Location Type: AUTOREPAIR  
Location Type: MUNICIPAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 01/19/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/27/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 08/05/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 06/13/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 07/31/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHEAST TRANSIT AUTHORITY (Continued)**

**S100829287**

Action Stat: Tier 2 Classification  
Action Date: 07/31/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 07/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/29/1990  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0000714  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/15/1989  
Category: NONE  
Facility Status: Response Action Outcome  
Status Date: 05/27/1999  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/19/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/27/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHEAST TRANSIT AUTHORITY (Continued)**

**S100829287**

Action Date: 08/05/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 06/13/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 07/31/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/31/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 07/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/29/1990  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: PETROLEUM  
Quantity: Not reported

Location:  
Location Type: AUTOREPAIR  
Location Type: MUNICIPAL

Source:  
Source Type: UST

Action:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHEAST TRANSIT AUTHORITY (Continued)**

**S100829287**

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/19/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/27/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 08/05/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 06/13/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 07/31/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/31/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 07/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/29/1990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHEAST TRANSIT AUTHORITY (Continued)**

**S100829287**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**E21**  
**SSW**  
**1/4-1/2**  
**0.307 mi.**  
**1623 ft.**

**LOT 4**  
**BLACKMER ST**  
**NEW BEDFORD, MA 02740**  
**Site 1 of 2 in cluster E**

**SHWS** **S104562765**  
**RELEASE** **N/A**  
**INST CONTROL**

**Relative:**  
**Higher**

SHWS:  
Facility ID: 4-0015490  
Release Town: NEW BEDFORD  
Notification Date: 05/19/2000  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 03/27/2009  
Phase: PHASE IV  
Response Action Outcome Class: A3  
Oil Or Haz Material: Hazardous Material

**Actual:**  
**2 ft.**

Chemical:  
Chemical: LEAD  
Quantity: 3640 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 11/20/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 11/20/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/08/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Type: Phase III  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/06/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/06/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/02/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 03/31/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Stat: Status Report Received  
Action Date: 08/22/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 05/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 04/22/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/08/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: Action Audited  
Action Date: 12/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 12/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 11/13/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Date: 11/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/10/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/09/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/19/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:  
Facility ID: 4-0015490  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/19/2000  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 03/27/2009  
Phase: PHASE IV  
Rspns Actn Outcome Class: A3  
Oil / Haz Material Type: Hazardous Material

Action:  
Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 11/20/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 11/20/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/08/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/06/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/06/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MAP FINDINGS

LOT 4 (Continued)

S104562765

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/02/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 03/31/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 03/27/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 08/22/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 05/19/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LOT 4 (Continued)

S104562765

been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 04/22/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/08/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: Action Audited  
Action Date: 12/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 12/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 11/13/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/10/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/09/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Chemical:  
Chemical: LEAD  
Quantity: 3640 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 11/20/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 11/20/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/08/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/06/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/06/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/02/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 03/31/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

MAP FINDINGS

Site

Database(s)

**LOT 4 (Continued)**

**S104562765**

been implemented.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 03/27/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
 Action Stat: Completion Statement Received  
 Action Date: 03/27/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
 Action Stat: Transmittal Received  
 Action Date: 03/27/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
 Action Stat: Completion Statement Received  
 Action Date: 03/27/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
 Action Stat: Status Report Received  
 Action Date: 08/22/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
 Action Stat: Notice of Delay in meeting Response Action Deadline  
 Action Date: 05/19/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
 Action Stat: Written Plan Received  
 Action Date: 04/22/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
 Action Stat: FLDRUN  
 Action Date: 01/08/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Type: Partial Response Action Outcome  
Action Stat: Action Audited  
Action Date: 12/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 12/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 11/13/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/10/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Stat: Transmittal Received  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 05/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/09/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

**INST CONTROL:**

Release Tracking Number: 4-0015490  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 03/27/2009  
Response Action Outcome: A3

Release Tracking Number: 4-0015490  
Action Type: AUL  
Action Stat: LEGNOT  
Action Date: 03/31/2009  
Response Action Outcome: A3

Release Tracking Number: 4-0015490  
Action Type: AUL

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LOT 4 (Continued)**

**S104562765**

Action Stat: SNAUDI  
 Action Date: 11/20/2009  
 Response Action Outcome: A3

**E22**  
**SSW**  
 1/4-1/2  
 0.334 mi.  
 1765 ft.

**STANDARD TIMES FIELD LOT 9G**  
**FRONT STREET**  
**NEW BEDFORD, MA 02740**  
 Site 2 of 2 in cluster E

**US BROWNFIELDS** **1009806323**  
 N/A

**Relative:**  
**Higher**

US BROWNFIELDS:

**Actual:**  
**3 ft.**

Recipient name: New Bedford, City of  
 Project name: New Bedford, MA (A03)  
 Property name: Standard Times Field Lot 9G  
 Parcel #: New Bedford Assessor's Map 25A Lots 55, 60, 62, 63  
 Parcel size: 2.03  
 Latitude: 41.620161  
 Longitude: -70.919349  
 Region: 1  
 HCM label: Not reported  
 Map scale: Not reported  
 Point of reference: Other Point  
 Datum: World Geodetic System of 1984  
 ICREQ date: Not reported  
 ACRES property ID: 29821  
 Start date: 1/30/2006  
 Completed date: 1/30/2006  
 Accomplishment type: Phase I Environmental Assessment  
 Accomplishment (acres): Not reported  
 Ownership entity: Government  
 Current use: Not reported  
 Current owner: City of New Bedford  
 Future use: Not reported  
 Past use flag: Not reported  
 Future use flag: Not reported  
 Cleanup required: Unknown  
 Proprietary controls: Not reported  
 Gov. control: Not reported  
 Enforcement permit tools: Not reported  
 Info. devices: Not reported  
 Video available: No  
 Photo available: Yes  
 Usage type: Not reported  
 Not in state/tribal program: Not reported  
 IC data address: Not reported  
 IC in place date: Not reported  
 IC in place flag: Not reported  
 IC required flag: No  
 NFA issue date: Not reported  
 State and tribal program date: Not reported  
 State and tribal program ID: Not reported  
 Air contaminated: Not reported  
 Air cleaned: Not reported  
 Asbestos found: Not reported  
 Asbestos cleaned: Not reported  
 Controlled substance found: Not reported  
 Controlled substance cleaned: Not reported  
 Drinking water affected: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANDARD TIMES FIELD LOT 9G (Continued)**

**1009806323**

Drinking water cleaned: Not reported  
Groundwater affected: Not reported  
Groundwater cleaned: Not reported  
Lead contaminant found: Yes  
Lead cleaned up: Yes  
None found: Not reported  
None cleaned up: Not reported  
No media found: Not reported  
No media cleaned up: Not reported  
Other found: Not reported  
Other cleaned up: Yes  
Other metals found: Yes  
Other metals cleaned: Yes  
PAHs found: Yes  
PAHs cleaned up: Not reported  
PCBs found: Not reported  
PCBs cleaned up: Not reported  
Petro products found: Not reported  
Petro products cleaned: Not reported  
Sediments found: Not reported  
Sediments cleaned: Not reported  
Soil affected: Yes  
Soil cleaned up: Yes  
Surface water affected: Not reported  
Surface water cleaned: Not reported  
Unknown found: Not reported  
Unknwon cleaned: Not reported  
Unknown media: Not reported  
Unknown media cleaned: Not reported  
VOCs found: Not reported  
VOCs cleaned: Not reported

Recipient name: New Bedford, City of  
Project name: New Bedford, MA (A03)  
Property name: Standard Times Field Lot 9G  
Parcel #: New Bedford Assessor's Map 25A Lots 55, 60, 62, 63  
Parcel size: 2.03  
Latitude: 41.620161  
Longitude: -70.919349  
Region: 1  
HCM label: Not reported  
Map scale: Not reported  
Point of reference: Other Point  
Datum: World Geodetic System of 1984  
ICREQ date: Not reported  
ACRES property ID: 29821  
Start date: Not reported  
Completed date: 12/6/2007  
Accomplishment type: Acres Cleaned Up  
Accomplishment (acres): 2.03  
Ownership entity: Government  
Current use: Not reported  
Current owner: City of New Bedford  
Future use: Not reported  
Past use flag: Not reported  
Future use flag: Not reported  
Cleanup required: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANDARD TIMES FIELD LOT 9G (Continued)**

**1009806323**

Proprietary controls: Not reported  
Gov. control: Not reported  
Enforcement permit tools: Not reported  
Info. devices: Not reported  
Video available: No  
Photo available: Yes  
Usage type: Not reported  
Not in state/tribal program: Not reported  
IC data address: Not reported  
IC in place date: Not reported  
IC in place flag: Not reported  
IC required flag: No  
NFA issue date: Not reported  
State and tribal program date: Not reported  
State and tribal program ID: Not reported  
Air contaminated: Not reported  
Air cleaned: Not reported  
Asbestos found: Not reported  
Asbestos cleaned: Not reported  
Controlled substance found: Not reported  
Controlled substance cleaned: Not reported  
Drinking water affected: Not reported  
Drinking water cleaned: Not reported  
Groundwater affected: Not reported  
Groundwater cleaned: Not reported  
Lead contaminant found: Yes  
Lead cleaned up: Yes  
None found: Not reported  
None cleaned up: Not reported  
No media found: Not reported  
No media cleaned up: Not reported  
Other found: Not reported  
Other cleaned up: Yes  
Other metals found: Yes  
Other metals cleaned: Yes  
PAHs found: Yes  
PAHs cleaned up: Not reported  
PCBs found: Not reported  
PCBs cleaned up: Not reported  
Petro products found: Not reported  
Petro products cleaned: Not reported  
Sediments found: Not reported  
Sediments cleaned: Not reported  
Soil affected: Yes  
Soil cleaned up: Yes  
Surface water affected: Not reported  
Surface water cleaned: Not reported  
Unknown found: Not reported  
Unknown cleaned: Not reported  
Unknown media: Not reported  
Unknown media cleaned: Not reported  
VOCs found: Not reported  
VOCs cleaned: Not reported

Property Description: The property was formerly part of a mill complex demolished around 1930. The property was developed as a baseball field at an unknown time. The City and the New Bedford Redevelopment Authority acquired

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STANDARD TIMES FIELD LOT 9G (Continued)**

**1009806323**

the property in December 2001 and sold a portion of the property. Use as a baseball field ceased. The City planned to assess the remaining portion of the property and market it for use as a boat yard. In January 2005 the City began exploring the possibility of redeveloping the property back into a baseball field.

**23**  
**West**  
**1/4-1/2**  
**0.419 mi.**  
**2210 ft.**

**ACUSNET AVE SCHOOL FMR**  
**266 PURCHASE ST**  
**NEW BEDFORD, MA**

**LUST** **S106131665**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**5 ft.**

Facility:

Facility ID: 4-0018079  
**Facility Status: Release Action Outcome**  
 Status Date: 12/30/2003  
 Source Type: UST  
 Release Town: NEW BEDFORD  
 Notification Date: 10/14/2003  
 Category: TWO HR  
 Associated ID: Not reported  
 Phase: Not reported  
 Rspns Actn Outcome Class: A1  
 Oil Or Haz Material: Not reported

Chemical:

Chemical: #4 OIL  
 Quantity: 10000 gallons

Location:

Location Type: RESIDENTIAL

Source:

Source Type: UST

Action:

Action Type: Immediate Response Action - DEP Lead  
 Action Stat: Completion Statement Received  
 Action Date: 12/30/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 12/30/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
 Action Stat: Written Plan Received  
 Action Date: 12/24/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Stat: REPORT  
 Action Date: 12/24/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACUSNET AVE SCHOOL FMR (Continued)**

**S106131665**

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 11/16/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NORA  
Action Date: 10/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 10/15/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
Action Stat: Oral Approval of Plan  
Action Date: 10/15/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0018079  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/14/2003  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 12/30/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACUSNET AVE SCHOOL FMR (Continued)**

**S106131665**

Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Not reported

Action:

Action Type: Immediate Response Action - DEP Lead  
Action Stat: Completion Statement Received  
Action Date: 12/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
Action Stat: Written Plan Received  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 11/16/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NORA  
Action Date: 10/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACUSNET AVE SCHOOL FMR (Continued)**

**S106131665**

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 10/15/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
Action Stat: Oral Approval of Plan  
Action Date: 10/15/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: #4 OIL  
Quantity: 10000 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: UST

Action:  
Action Type: Immediate Response Action - DEP Lead  
Action Stat: Completion Statement Received  
Action Date: 12/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
Action Stat: Written Plan Received  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 11/16/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACUSNET AVE SCHOOL FMR (Continued)**

**S106131665**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NORA  
Action Date: 10/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 10/15/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
Action Stat: Oral Approval of Plan  
Action Date: 10/15/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

24  
SSW  
1/4-1/2  
0.435 mi.  
2294 ft.

**DARN-IT, INC. LOADING DOCK**  
**84 GIFFORD ST**  
**NEW BEDFORD, MA**

**SHWS S104562766**  
**RELEASE N/A**

**Relative:**  
**Equal**

SHWS:  
Facility ID: 4-0015491  
Release Town: NEW BEDFORD  
Notification Date: 05/09/2000  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 05/16/2001  
Phase: Not reported

**Actual:**  
**0 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARN-IT, INC. LOADING DOCK (Continued)**

**S104562766**

Response Action Outcome Class: B1  
Oil Or Haz Material: Oil and Hazardous Material

Chemical:  
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 1200 parts per million  
Chemical: LEAD  
Quantity: .058 parts per million  
Chemical: BENZO[A]ANTHRACENE  
Quantity: 5.6 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/28/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/16/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/07/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/09/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/09/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 4-0020913  
Release Town: NEW BEDFORD  
Notification Date: 11/21/2007  
Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARN-IT, INC. LOADING DOCK (Continued)**

**S104562766**

Associated ID: Not reported  
**Compliance Status:** **Release Action Outcome**  
Status Date: 01/28/2008  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 45 gallons

Location:  
Location Type: PRIVPROP  
Location Type: ROADWAY

Source:  
Source Type: FUELTANK  
Source Type: VEHICLE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/14/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/05/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/21/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARN-IT, INC. LOADING DOCK (Continued)**

**S104562766**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0015491  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/09/2000  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 05/16/2001  
Phase: Not reported  
Rspns Actn Outcome Class: B1  
Oil / Haz Material Type: Oil and Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 04/28/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/16/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/07/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/09/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/09/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 1200 parts per million  
Chemical: LEAD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARN-IT, INC. LOADING DOCK (Continued)**

**S104562766**

Quantity: .058 parts per million  
Chemical: BENZO[A]ANTHRACENE  
Quantity: 5.6 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/28/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/16/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/07/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/09/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/09/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 4-0020913  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/21/2007  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 01/28/2008  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARN-IT, INC. LOADING DOCK (Continued)**

**S104562766**

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/14/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/05/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical: DIESEL FUEL  
Quantity: 45 gallons

Location:

Location Type: PRIVPROP  
Location Type: ROADWAY

Source:

Source Type: FUEL TANK  
Source Type: VEHICLE

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARN-IT, INC. LOADING DOCK (Continued)**

**S104562766**

Action Date: 04/14/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/05/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

25  
West  
1/4-1/2  
0.453 mi.  
2391 ft.

**STANDARD TAXI**  
**241 COUNTY ST**  
**NEW BEDFORD, MA 02740**

**SHWS S100363079**  
**RELEASE N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**6 ft.**

SHWS:  
Facility ID: 4-0001052  
Release Town: NEW BEDFORD  
Notification Date: 04/15/1991  
Category: NONE  
Associated ID: Not reported  
**Compliance Status:** **Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANDARD TAXI (Continued)**

**S100363079**

**accepted waivers are categorically Tier 2 sites.**

Status Date: 02/03/1998  
Phase: PHASE II  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: MOTOR POOL

Source:  
Source Type: PIPE

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 10/07/2009  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 05/01/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 06/18/2003  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 04/16/2003  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 10/26/1998  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/15/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 02/03/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 02/03/1998  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANDARD TAXI (Continued)**

**S100363079**

Action Date: 02/03/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1991  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 01/25/1991  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0001052  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/15/1991  
Category: NONE  
Facility Status: TIERII  
Status Date: 02/03/1998  
Phase: PHASE II  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: C&E  
Action Stat: NON  
Action Date: 10/07/2009  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 05/01/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 06/18/2003  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 04/16/2003  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 10/26/1998  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/15/1998  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANDARD TAXI (Continued)**

**S100363079**

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 02/03/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 02/03/1998  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 02/03/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1991  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 01/25/1991  
Response Action Outcome: Not reported

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: MOTOR POOL

Source:  
Source Type: PIPE

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 10/07/2009  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 05/01/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 06/18/2003  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 04/16/2003  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STANDARD TAXI (Continued)**

**S100363079**

Action Date: 10/26/1998  
 Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
 Action Stat: Written Plan Received  
 Action Date: 07/15/1998  
 Response Action Outcome: Not reported

Action Type: Tier Classification  
 Action Stat: Tier 2 Classification  
 Action Date: 02/03/1998  
 Response Action Outcome: Not reported

Action Type: Tier Classification  
 Action Stat: Transmittal Received  
 Action Date: 02/03/1998  
 Response Action Outcome: Not reported

Action Type: Phase I  
 Action Stat: Completion Statement Received  
 Action Date: 02/03/1998  
 Response Action Outcome: Not reported

Action Type: Release  
 Action Stat: TCTRNS  
 Action Date: 04/15/1991  
 Response Action Outcome: Not reported

Action Type: C&E  
 Action Stat: RFI  
 Action Date: 01/25/1991  
 Response Action Outcome: Not reported

26  
 West  
 1/4-1/2  
 0.467 mi.  
 2465 ft.

**ATLANTIC ELEVATOR & GARAGE**  
**128 GRINNELL ST**  
**NEW BEDFORD, MA**

**SHWS S103812667**  
**RELEASE N/A**

**Relative:**  
**Higher**

SHWS:  
 Facility ID: 4-0014620  
 Release Town: NEW BEDFORD  
 Notification Date: 03/25/1999  
 Category: TWO HR  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 05/11/1999  
 Phase: Not reported  
 Response Action Outcome Class: A1  
 Oil Or Haz Material: Oil

**Actual:**  
**10 ft.**

Chemical:  
 Chemical: MOTOR OIL  
 Quantity: 25 gallons

Location:  
 Location Type: COMMERCIAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ATLANTIC ELEVATOR & GARAGE (Continued)**

**S103812667**

Source:  
Source Type: VEHICLE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/10/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/02/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0014620  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/25/1999  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 05/11/1999  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/10/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/11/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ATLANTIC ELEVATOR & GARAGE (Continued)**

**S103812667**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/02/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: MOTOR OIL  
Quantity: 25 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: VEHICLE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/10/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/02/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ATLANTIC ELEVATOR & GARAGE (Continued)**

**S103812667**

Action Date: 03/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**F27  
NW  
1/4-1/2  
0.479 mi.  
2532 ft.**

**SPRAGUE ENERGY CORP  
30 PINE ST  
NEW BEDFORD, MA 02740**

**Site 1 of 4 in cluster F**

**RCRA-NonGen 1000161554  
LAST MAD075727503  
MANIFEST  
RELEASE**

**Relative:  
Higher**

RCRA-NonGen:

Date form received by agency: 06/21/2006  
Facility name: SPRAGUE ENERGY CORP  
Facility address: 30 PINE ST  
NEW BEDFORD, MA 02740  
EPA ID: MAD075727503  
Contact: TIMOTHY KIPP  
Contact address: TWO INTERNATIONAL DR  
PORTSMOUTH, NH 028010000

**Actual:  
9 ft.**

Contact country: US  
Contact telephone: (603) 430-7264  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: SPRAGUE ENERGY CORP  
Owner/operator address: TWO INTERNATIONAL DR  
PORTSMOUTH, NH 02801  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 06/22/2006  
Owner/Op end date: Not reported

Owner/operator name: SPRAGUE ENERGY CORP  
Owner/operator address: TWO INTERNATIONAL DR  
PORTSMOUTH, NH 02801  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/22/2006  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY CORP (Continued)**

**1000161554**

Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 10/31/1980  
Facility name: SPRAGUE ENERGY CORP  
Site name: SPRAGUE MASSACHUSETTS  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: MA01  
Waste name: WASTE OIL

Waste code: MA98  
Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Waste code: MA99  
Waste name: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 05/29/1985  
Date achieved compliance: 05/29/1990  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/29/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/29/1985  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY CORP (Continued)**

**1000161554**

Date achieved compliance: 05/29/1990  
Evaluation lead agency: State

LAST:  
Facility ID: 4-0015577  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 07/06/2000  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**  
Status Date: 02/22/2001  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: #6 FUEL OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: INDUSTRIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/02/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/22/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/22/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 11/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY CORP (Continued)**

**1000161554**

Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/07/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 07/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 07/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**MANIFEST:**

GEN Cert Date: 9/22/2006  
Transporter Recpt Date: 9/22/2006  
Number Of Containers: 3  
Container Type: R003MA98  
Waste Code1: MA99  
Waste Code2: MA99  
Waste Code3: Not reported  
Comment: Not reported  
Fee Exempt Code: Not reported  
TSDf Name: United Oil Recovery Inc  
TSDf ID: RID084802842  
TSDf Date: 9/22/2006  
Date Imported: 9/21/2007 5:11:56 PM  
Transporter 2 Name: Not reported  
Transporter 2 ID: Not reported  
Manifest Docket Number: Not reported  
Waste Description: Not reported  
Quantity: Not reported  
WT/Vol Units: Not reported  
Item Number: Not reported  
Transporter Name: Not reported  
Transporter EPA ID: Not reported  
GEN Cert Date: Not reported  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSDf Recpt Date: Not reported  
EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY CORP (Continued)**

**1000161554**

Transporter 2 ID: Not reported

Release:

Facility ID: 4-0015577  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 07/06/2000  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 02/22/2001  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/02/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/22/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/22/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 11/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY CORP (Continued)**

**1000161554**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/07/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 07/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 07/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: #6 FUEL OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: INDUSTRIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 04/02/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/22/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/22/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 11/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY CORP (Continued)**

**1000161554**

to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/07/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 07/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 07/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**F28  
NW  
1/4-1/2  
0.479 mi.  
2532 ft.**

**SPRAGUE ENERGY  
30 PINE ST  
NEW BEDFORD, MA  
Site 2 of 4 in cluster F**

**SHWS S108348211  
RELEASE N/A**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0020254  
Release Town: NEW BEDFORD  
Notification Date: 01/08/2007  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 03/08/2007  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

**Actual:  
9 ft.**

Chemical:  
Chemical: FUEL OIL  
Quantity: 32 gallons

Location:  
Location Type: COMMERCIAL

Source:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY (Continued)**

**S108348211**

Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/22/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0020254  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/08/2007  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 03/08/2007  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/22/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPRAGUE ENERGY (Continued)**

**S108348211**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: FUEL OIL  
Quantity: 32 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/22/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/08/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SPRAGUE ENERGY (Continued)**

**S108348211**

Action Type: Notice of Responsibility  
 Action Stat: ISSUED  
 Action Date: 02/08/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
 Action Stat: Oral Approval of Plan  
 Action Date: 01/08/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 01/08/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**F29  
 NW  
 1/4-1/2  
 0.479 mi.  
 2532 ft.**

**GLOBAL OIL FACILITY  
 30 PINE ST  
 NEW BEDFORD, MA  
 Site 3 of 4 in cluster F**

**SHWS S101037323  
 LAST N/A  
 RELEASE  
 SPILLS**

**Relative:  
 Higher**

SHWS:  
 Facility ID: 4-0018540  
 Release Town: NEW BEDFORD  
 Notification Date: 07/12/2004  
 Category: TWO HR  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 11/10/2004  
 Phase: Not reported  
 Response Action Outcome Class: A2  
 Oil Or Haz Material: Not reported

**Actual:  
 9 ft.**

Chemical:  
 Chemical: #6 OIL  
 Quantity: 200 gallons

Location:  
 Location Type: INDUSTRIAL

Source:  
 Source Type: PIPE

Action:  
 Action Type: Response Action Outcome  
 Action Stat: Level I - Technical Screen Audit  
 Action Date: 11/29/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 11/10/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GLOBAL OIL FACILITY (Continued)

S101037323

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 07/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 07/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 4-0021153  
Release Town: NEW BEDFORD  
Notification Date: 03/27/2008  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 03/30/2008  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: BILGE SPOILS  
Quantity: Not reported  
Chemical: UNKNOWN PETROLEUM  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: BOAT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GLOBAL OIL FACILITY (Continued)

S101037323

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: Adequately Regulated  
Action Date: 03/30/2008  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDDO  
Action Date: 03/27/2008  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/27/2008  
Response Action Outcome: Not reported

LAST:

Facility ID: 4-0013434  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 10/17/1997  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**  
Status Date: 12/24/1997  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Not reported

Chemical:

Chemical: #6 OIL  
Quantity: 200 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: AST

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/29/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLOBAL OIL FACILITY (Continued)**

**S101037323**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0013434  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/17/1997  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 12/24/1997  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/29/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLOBAL OIL FACILITY (Continued)**

**S101037323**

Chemical:

Chemical: #6 OIL  
Quantity: 200 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: AST

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/29/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0018540  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 07/12/2004  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 11/10/2004  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/29/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLOBAL OIL FACILITY (Continued)**

**S101037323**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/10/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 07/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 07/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: #6 OIL  
Quantity: 200 gallons

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/29/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLOBAL OIL FACILITY (Continued)**

**S101037323**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/10/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 07/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 07/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 4-0021153  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/27/2008  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 03/30/2008  
Phase: Not reported  
Rspsn Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Adequately Regulated  
Action Date: 03/30/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLOBAL OIL FACILITY (Continued)**

**S101037323**

Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDDO  
Action Date: 03/27/2008  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/27/2008  
Response Action Outcome: Not reported

Chemical:  
Chemical: BILGE SPOILS  
Quantity: Not reported  
Chemical: UNKNOWN PETROLEUM  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: BOAT

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Adequately Regulated  
Action Date: 03/30/2008  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDDO  
Action Date: 03/27/2008  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/27/2008  
Response Action Outcome: Not reported

**MA Spills:**

Facility ID:	0000	Spill ID:	S90-0828
Staff Lead:	LEARY, J	Date Entered:	19920226
Last Entered:	19920226	First Response:	19901108
Spill Date:	19901108	Spill Time:	12:00AM
Report Date:	19901108	Report Time:	04:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	251-500	Qty Actual:	-----
Qty Reported:	GALLONS	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	PIPE/HOSE/LINE	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GLOBAL OIL FACILITY (Continued)**

**S101037323**

Report Prep: Not reported  
Notifier: TOM CONDON/EPA  
Notif Tel: Not reported  
Days/Close: 1  
Category: Not reported

F30  
NW  
1/4-1/2  
0.485 mi.  
2560 ft.

**NEW BEDFORD GAS AND EDISON LIGHT CO  
S WATER STREET  
NEW BEDFORD, MA 02740**

**Manufactured Gas Plants**

**1008408466  
N/A**

Site 4 of 4 in cluster F

Relative:  
Higher

Actual:  
14 ft.  
G31  
WNW  
1/2-1  
0.515 mi.  
2719 ft.

**MORSE CUTTING TOOLS  
163 PLEASANT STREET  
NEW BEDFORD, MA 02740**

**CERC-NFRAP  
RCRA-NonGen  
FINDS  
SHWS  
UST  
SPILLS  
RELEASE  
FINANCIAL ASSURANCE**

**1000378887  
MAD051505683**

Site 1 of 2 in cluster G

Relative:  
Higher

Actual:  
14 ft.

CERC-NFRAP:  
Site ID: 0102598  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Site Contact Name(s):

Contact Title: Site Assessment Manager  
Contact Name: Nancy Smith  
Contact Tel: (617) 918-1436

Contact Title: OSC  
Contact Name: JANIS TSANG  
Contact Tel: (617) 918-1231

Program Priority:  
Description: Environmental Justice Indicator

CERCLIS-NFRAP Assessment History:

Action: REMOVAL ASSESSMENT  
Date Started: 03/03/1992  
Date Completed: 03/03/1992  
Priority Level: Not reported

Action: AM  
Date Started: Not reported  
Date Completed: 04/08/1992  
Priority Level: Not reported

Action: ADMINISTRATIVE RECORDS  
Date Started: 06/05/1992  
Date Completed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Priority Level: Admin Record Compiled for a Removal Event

Action: Public Notice Published  
Date Started: Not reported  
Date Completed: 06/14/1992  
Priority Level: Not reported

Action: REMOVAL  
Date Started: 04/20/1992  
Date Completed: 07/02/1992  
Priority Level: Cleaned up

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 04/27/1993  
Priority Level: Not reported

Action: NON-NPL PRP SEARCH  
Date Started: 04/01/1992  
Date Completed: 04/04/1995  
Priority Level: Search Complete, No Viable PRPs

Action: DD  
Date Started: Not reported  
Date Completed: 04/04/1995  
Priority Level: Not reported

Action: ARCHIVE SITE  
Date Started: Not reported  
Date Completed: 08/06/1996  
Priority Level: Not reported

**RCRA-NonGen:**

Date form received by agency: 11/18/1980  
Facility name: MORSE TOOL INC  
Facility address: 163 PLEASANT ST  
NEW BEDFORD, MA 02742  
EPA ID: MAD051505683  
Contact: JAMES WILLIAMS  
Contact address: 163 PLEASANT ST  
NEW BEDFORD, MA 02740  
Contact country: US  
Contact telephone: (508) 994-9611  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: MORSE CUTTING TOOLS  
Owner/operator address: 163 PLEASANT ST  
NEW BEDFORD, MA 02740  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Owner/Operator Type: Operator  
Owner/Op start date: 03/01/1990  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 08/18/1980  
Facility name: MORSE TOOL INC  
Classification: Not a generator, verified

Date form received by agency: 08/18/1980  
Facility name: MORSE TOOL INC  
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D005  
Waste name: BARIUM

Waste code: D008  
Waste name: LEAD

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
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MAP FINDINGS

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**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: K069  
Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING. (NOTE: THIS LISTING IS STAYED ADMINISTRATIVELY FOR SLUDGE GENERATED FROM SECONDARY ACID SCRUBBER SYSTEMS. THE STAY WILL REMAIN IN EFFECT UNTIL FURTHER ADMINISTRATIVE ACTION IS TAKEN. IF EPA TAKES FURTHER ACTION EFFECTING THIS STAY, EPA WILL PUBLISH A NOTICE OF THE ACTION IN THE FEDERAL REGISTER.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 06/27/1990  
Date achieved compliance: 07/01/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/25/1986  
Date achieved compliance: 04/09/1987  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/30/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 06/21/1985  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 06/21/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported

Map ID  
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MAP FINDINGS

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EDR ID Number  
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**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 06/21/1985  
Date achieved compliance: 02/27/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 02/25/1985  
Date achieved compliance: 09/10/1985  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/28/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 07/01/1992  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/03/1992  
Evaluation: FOLLOW-UP INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/27/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/27/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 07/01/1992  
Evaluation lead agency: State

Map ID  
Direction  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Evaluation date: 04/09/1987  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/25/1986  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Generators - General  
Date achieved compliance: 04/09/1987  
Evaluation lead agency: State

Evaluation date: 06/21/1985  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 02/27/1992  
Evaluation lead agency: State

Evaluation date: 02/25/1985  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/25/1985  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 09/10/1985  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110001949606

**Environmental Interest/Information System**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

SHWS:

Facility ID: 4-0001203  
Release Town: NEW BEDFORD  
Notification Date: 07/15/1992  
Category: NONE  
Associated ID: 4-0001203

**Compliance Status: Tier 1B, A site/release where an NRS score of less than 550 and equal t or greater than 450. These sites/releases require a permit and the response actions may be performed under the supervision of a Licensed Site Professional (LSP) without prior DEP approval, unless such an approval is specifically required by DEP.**

Status Date: 11/27/2000  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:

Chemical: SLUDGE  
Quantity: Not reported  
Chemical: WATER  
Quantity: Not reported

Location:

Location Type: INDUSTRIAL

Source:

Source Type: UNKNOWN

Action:

Action Type: BWS02  
Action Stat: PREAPP  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 12/23/2009  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/23/2009  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type:	C&E
Action Stat:	INTLET
Action Date:	12/23/2009
Response Action Outcome:	Not reported
Action Type:	Partial Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	10/14/2009
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Completion Statement Received
Action Date:	06/03/2008
Response Action Outcome:	Not reported
Action Type:	Partial Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	06/03/2008
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	12/21/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	06/21/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	01/03/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINI
Action Date:	01/03/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	07/03/2006
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	07/03/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	04/14/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Legal Notice Published

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Date: 04/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 12/28/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/22/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/23/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/23/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/24/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/24/2004  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 04/22/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Level II - Audit Inspection  
Action Date: 04/22/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 03/18/2004  
Response Action Outcome: Not reported

Map ID  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/30/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/30/2003  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 09/11/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 05/27/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/16/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/19/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/16/2002  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 09/17/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 07/30/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 06/06/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 02/26/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/18/1999  
Response Action Outcome: Not reported

Map ID  
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**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: PIP  
Action Stat: PIPDLY  
Action Date: 05/14/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 12/17/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 09/24/1996  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/15/1992  
Response Action Outcome: Not reported

UST:

Facility ID: 3406

Facility:

Owner Id: 4590  
Owner: MORSE CUTTING TOOLS  
Owner Address: 163 PLEASANT ST  
Owner City,St,Zip: NEW BEDFORD, MA 02742  
Telephone: (617) 994-9611  
Description: Other  
Fire Dept. ID: 5201  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Map ID  
Direction  
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

1000378887

Tank ID: 1  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 50  
Contents: Gasoline

Tank ID: 2  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 500  
Contents: Not reported

Tank ID: 3  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 10000  
Contents: Not reported

MA Spills:

Facility ID: 0000  
Staff Lead: BEGLEY, J  
Last Entered: 19890108  
Spill Date: 19881122  
Report Date: 19881122  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: Not reported  
Material: MISCELLANEOUS OIL  
Qty Reported: 51-100  
Qty Reported: GALLONS  
CAS No: Not reported

Spill ID: S88-0743  
Date Entered: 19890108  
First Response: 19881122  
Spill Time: 10:27PM  
Report Time: 11:00  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: 51-100  
Qty Actual: GALLONS  
PCB Lev (ppm): Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MORSE CUTTING TOOLS (Continued)

1000378887

Source: OTHER SOURCE >  
Incident: RUPTURE  
Cleanup Type: Not reported  
Referral: NO  
Report Prep: Not reported  
Notifier: Not reported  
Notif Tel: Not reported  
Days/Close: -1

Other Source: LINE  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: Not reported  
Category: Not reported

Facility ID: 4-1203  
Staff Lead: MORAN, M  
Last Entered: 19920311  
Spill Date: 19920227  
Report Date: 19920227  
Case Closed: YES  
Virgin Waste: WASTE  
Env Impact: -----  
Material: WASTE OIL  
Qty Reported: UNKNOWN  
Qty Reported: GALLONS  
CAS No: Not reported  
Source: OTHER SOURCE >  
Incident: OTHER RELEASE >  
Cleanup Type: ---  
Referral: SA  
Report Prep: Not reported  
Notifier: LT GAUTHIER/FD  
Notif Tel: Not reported  
Days/Close: 0

Spill ID: S92-0124  
Date Entered: Not reported  
First Response: 19920227  
Spill Time: Not reported  
Report Time: 01:00PM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: UNKNOWN  
Qty Actual: GALLONS  
PCB Lev (ppm): -----  
Other Source: ABANDONED  
Other Incdnt: BUILDING  
Contractor: NOT USED  
LUST Elig: NO  
Category: Not reported

Facility ID: 0000  
Staff Lead: PINAUD, L  
Last Entered: 19930917  
Spill Date: 19901113  
Report Date: 19901113  
Case Closed: YES  
Virgin Waste: WASTE  
Env Impact: SOIL  
Material: OTHER MATERIAL -->  
Qty Reported: UNKNOWN  
Qty Reported: -----  
CAS No: Not reported  
Source: OTHER SOURCE >  
Incident: DUMPING  
Cleanup Type: ---  
Referral: NO  
Report Prep: Not reported  
Notifier: JIM WILLIAMS  
Notif Tel: Not reported  
Days/Close: 0

Spill ID: S90-0837  
Date Entered: 19920226  
First Response: 19901113  
Spill Time: Not reported  
Report Time: 09:45AM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: CUTTING OIL  
Qty Actual: UNKNOWN  
Qty Actual: -----  
PCB Lev (ppm): -----  
Other Source: UNKNOWN  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: ---  
Category: Not reported

Facility ID: 0000  
Staff Lead: OTHER  
Last Entered: 19940224  
Spill Date: Not reported  
Report Date: 19930825  
Case Closed: YES

Spill ID: S93-0620  
Date Entered: 19940224  
First Response: 19930825  
Spill Time: Not reported  
Report Time: 01:30  
Mat Type: UNKNOWN

Map ID  
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MAP FINDINGS

Site

Database(s)

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EPA ID Number

MORSE CUTTING TOOLS (Continued)

1000378887

Virgin Waste:	-----	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	CUTTING OIL
Qty Reported:	-----	Qty Actual:	UNKNOWN
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	OTHER SOURCE >	Other Source:	UNKNOWN
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	BILL BACKBURN/NB HEALTH DEPT		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Facility ID:	4-0001203
Primary ID:	4-0001203
Official City:	NEW BEDFORD
Notification:	07/15/1992
Category:	NONE
Facility Status:	TIER1B
Status Date:	11/27/2000
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

Action:

Action Type:	BWS02
Action Stat:	PREAPP
Action Date:	Not reported
Response Action Outcome:	Not reported

Action Type:	BWS20
Action Stat:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported

Action Type:	C&E
Action Stat:	RFI
Action Date:	12/23/2009
Response Action Outcome:	Not reported

Action Type:	AUDCOM
Action Stat:	NOA
Action Date:	12/23/2009
Response Action Outcome:	Not reported

Action Type:	C&E
Action Stat:	INTLET
Action Date:	12/23/2009
Response Action Outcome:	Not reported

Action Type:	Partial Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	10/14/2009
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 06/03/2008  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 12/21/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 06/21/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINI  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 07/03/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 07/03/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 04/14/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 12/28/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Date: 12/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/22/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/23/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/23/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/24/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/24/2004  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 04/22/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Level II - Audit Inspection  
Action Date: 04/22/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 03/18/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/30/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/30/2003  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 09/11/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 05/27/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/16/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/19/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/16/2002  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 09/17/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Date: 07/30/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 06/06/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 02/26/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/18/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: PIPDLY  
Action Date: 05/14/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 12/17/1998  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 09/24/1996  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/15/1992  
Response Action Outcome: Not reported

Chemical:  
Chemical: SLUDGE  
Quantity: Not reported  
Chemical: WATER  
Quantity: Not reported

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: UNKNOWN

Action:  
Action Type: BWS02  
Action Stat: PREAPP  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 12/23/2009  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/23/2009  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: INTLET  
Action Date: 12/23/2009  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/14/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 06/03/2008  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 12/21/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 06/21/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINI  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 07/03/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 07/03/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Date: 04/14/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 12/28/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/22/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/23/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/23/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/24/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/24/2004  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 04/22/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Level II - Audit Inspection  
Action Date: 04/22/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 03/18/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/30/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/30/2003  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 09/11/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 05/27/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/16/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/19/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/16/2002  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 09/17/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 07/30/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 06/06/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 02/26/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/18/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: PIPDLY  
Action Date: 05/14/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 12/17/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: RFI  
Action Date: 09/24/1996  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/15/1992  
Response Action Outcome: Not reported

**FINASS2:**

Facility Id: 3406  
Description: Other  
Work Phone: (617) 994-9611  
Financial Resp: Normal

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**G32**      **MORSE CUTTING TOOLS FMR**  
**WNW**      **163 PLEASANT ST**  
**1/2-1**      **NEW BEDFORD, MA 02740**  
**0.515 mi.**  
**2719 ft.**      **Site 2 of 2 in cluster G**

**SHWS**      **S103546637**  
**RELEASE**      **N/A**

**Relative:**  
**Higher**

SHWS:

Facility ID: 4-0014221  
Release Town: NEW BEDFORD  
Notification Date: 09/25/1998  
Category: 120 DY  
Associated ID: 4-0001203

**Actual:**  
**14 ft.**

**Compliance Status:**

**Tier 1B, A site/release where an NRS score of less than 550 and equal t or greater than 450. These sites/releases require a permit and the response actions may be performed under the supervision of a Licensed Site Professional (LSP) without prior DEP approval, unless such an approval is specifically required by DEP.**

Status Date: 11/27/2000  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:

Chemical: AROMATICS  
Quantity: 3400 parts per million  
Chemical: ALIPHATICS  
Quantity: 8700 parts per million  
Chemical: ALIPHATICS  
Quantity: 1200 parts per million

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 04/14/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2002  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	12/18/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/22/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	06/12/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	06/06/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	02/05/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	12/21/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 1B Classification
Action Date:	11/27/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Revised Statement or Transmittal Received
Action Date:	11/27/2000
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/19/2000
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	12/20/1999
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	10/27/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LNKVTC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/18/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: PIPMTG  
Action Date: 05/14/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/22/1998  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/27/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/25/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/25/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0014221  
Primary ID: 4-0001203  
Official City: NEW BEDFORD  
Notification: 09/25/1998  
Category: 120 DY  
Facility Status: TIER1B  
Status Date: 11/27/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 04/14/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 06/06/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 02/05/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/21/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/19/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/20/1999  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/18/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: PIPMTG  
Action Date: 05/14/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/22/1998  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/27/1998  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/25/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/25/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Chemical:  
Chemical: AROMATICS  
Quantity: 3400 parts per million  
Chemical: ALIPHATICS  
Quantity: 8700 parts per million  
Chemical: ALIPHATICS  
Quantity: 1200 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 04/14/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/20/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/18/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/22/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 06/06/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 02/05/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/21/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 11/27/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/19/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/20/1999  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MORSE CUTTING TOOLS FMR (Continued)**

**S103546637**

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 10/27/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/18/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: PIPMTG  
Action Date: 05/14/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/22/1998  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/27/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/25/1998  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/25/1998  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/05/1997  
Response Action Outcome: Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

33  
NW  
1/2-1  
0.530 mi.  
2798 ft.

**NEW BEDFORD GAS AND EDISON LIGHT CO**  
**1ST STREET AND COFFIN**  
**NEW BEDFORD, MA 02740**

**Manufactured Gas Plants**

**1008408465**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
13 ft.  
34  
SSE  
1/2-1  
0.534 mi.  
2817 ft.

**ALLEY WAY OF BILDING**  
**21 COVE ST**  
**NEW BEDFORD, MA**

**SHWS S106132349**  
**RELEASE N/A**

**Relative:**  
**Equal**

**Actual:**  
**0 ft.**

**SHWS:**

Facility ID: 4-0018076  
Release Town: NEW BEDFORD  
Notification Date: 10/14/2003  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 01/28/2004  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

**Chemical:**

Chemical: HEATING OIL  
Quantity: 200 gallons

**Location:**

Location Type: INDUSTRIAL

**Source:**

Source Type: PIPE

**Action:**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALLEY WAY OF BILDING (Continued)**

**S106132349**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/26/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0018076  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/14/2003  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 01/28/2004  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALLEY WAY OF BILDING (Continued)**

**S106132349**

Action Stat: ISSUED  
Action Date: 11/26/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: HEATING OIL  
Quantity: 200 gallons

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/26/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALLEY WAY OF BILDING (Continued)**

**S106132349**

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**35**  
**South**  
**1/2-1**  
**0.555 mi.**  
**2932 ft.**

**DARTMOUTH FINISHING**  
**45 COVE STREET**  
**NEW BEDFORD, MA 02744**

**CERC-NFRAP** **1000520652**  
**SHWS** **MAD985275015**  
**RELEASE**

**Relative:**  
**Equal**

CERC-NFRAP:

Site ID: 0102899  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

**Actual:**  
**0 ft.**

CERCLIS-NFRAP Site Contact Name(s):

Contact Title: PRESIDENT  
Contact Name: NICHOLAS GESKOS  
Contact Tel: Not reported

Contact Title: OSC  
Contact Name: RICHARD HAWORTH  
Contact Tel: (617) 918-1229

Contact Title: Site Assessment Manager  
Contact Name: Nancy Smith  
Contact Tel: (617) 918-1436

Program Priority:

Description: Environmental Justice Indicator

CERCLIS-NFRAP Assessment History:

Action: REMOVAL ASSESSMENT  
Date Started: 01/21/1997  
Date Completed: 01/29/1997  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 02/20/1997  
Priority Level: Not reported

Action: AM  
Date Started: Not reported  
Date Completed: 03/06/1997  
Priority Level: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action:	DC
Date Started:	Not reported
Date Completed:	03/06/1997
Priority Level:	Not reported
Action:	Public Notice Published
Date Started:	Not reported
Date Completed:	05/22/1997
Priority Level:	Not reported
Action:	ADMINISTRATIVE RECORDS
Date Started:	05/22/1997
Date Completed:	Not reported
Priority Level:	Admin Record Compiled for a Removal Event
Action:	REMOVAL
Date Started:	03/16/1997
Date Completed:	07/17/1997
Priority Level:	Cleaned up
Action:	ISSUE REQ LTTRS (104e)
Date Started:	Not reported
Date Completed:	02/16/2000
Priority Level:	Not reported
Action:	ISSUE REQ LTTRS (104e)
Date Started:	Not reported
Date Completed:	03/02/2000
Priority Level:	Not reported
Action:	ISSUE REQ LTTRS (104e)
Date Started:	Not reported
Date Completed:	03/08/2000
Priority Level:	Not reported
Action:	IQ
Date Started:	Not reported
Date Completed:	04/12/2000
Priority Level:	Not reported
Action:	IY
Date Started:	Not reported
Date Completed:	04/18/2000
Priority Level:	Not reported
Action:	ISSUE REQ LTTRS (104e)
Date Started:	Not reported
Date Completed:	04/19/2000
Priority Level:	Not reported
Action:	NON-NPL PRP SEARCH
Date Started:	02/21/1997
Date Completed:	07/07/2000
Priority Level:	Not reported
Action:	DD
Date Started:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Date Completed: 07/07/2000  
Priority Level: Not reported

Action: ARCHIVE SITE  
Date Started: Not reported  
Date Completed: 10/25/2002  
Priority Level: Not reported

Action: LA  
Date Started: Not reported  
Date Completed: Not reported  
Priority Level: Not reported

**SHWS:**

Facility ID: 4-0012810  
Release Town: NEW BEDFORD  
Notification Date: 01/21/1997  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 08/31/2004  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Hazardous Material

**Chemical:**

Chemical: HAZARDOUS WASTE  
Quantity: 11000 gallons

**Location:**

Location Type: INDUSTRIAL

**Source:**

Source Type: Not reported

**Action:**

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 09/03/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: ACOP  
Action Date: 02/11/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NOEC  
Action Date: 10/29/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/18/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/22/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/22/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: UAO  
Action Date: 07/23/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: PAN  
Action Date: 07/23/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 05/29/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 03/05/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/28/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/27/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/27/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/26/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/18/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NORA  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/04/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NORA  
Action Date: 06/04/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/10/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 01/21/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/21/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0012810  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/21/1997  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 08/31/2004  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 09/03/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: ACOP  
Action Date: 02/11/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

reduced to background.

Action Type: C&E  
Action Stat: NOEC  
Action Date: 10/29/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/18/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 07/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/22/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action Stat: REPORT  
Action Date: 08/22/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: UAO  
Action Date: 07/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: PAN  
Action Date: 07/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 05/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 03/05/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/27/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/27/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/26/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MAP FINDINGS

**DARTMOUTH FINISHING (Continued)**

**1000520652**

reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/18/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NORA  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/04/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NORA  
Action Date: 06/04/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/10/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action Stat: FLDD1A  
Action Date: 01/21/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/21/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: HAZARDOUS WASTE  
Quantity: 11000 gallons

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 09/03/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: ACOP  
Action Date: 02/11/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NOEC  
Action Date: 10/29/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/18/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/14/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/22/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/22/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: UAO  
Action Date: 07/23/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: PAN

Action Date: 07/23/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: NON

Action Date: 05/29/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: NON

Action Date: 03/05/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FLDRAN

Action Date: 08/28/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FLDRAN

Action Date: 08/27/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 08/27/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FLDRAN

Action Date: 08/26/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FLDRAN

Action Date: 07/28/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 07/18/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NORA  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 06/14/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/04/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NORA  
Action Date: 06/04/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/10/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 01/21/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/21/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DARTMOUTH FINISHING (Continued)**

**1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**36**  
**South**  
**1/2-1**  
**0.571 mi.**  
**3016 ft.**

**BERKSHIRE HATHAWAY INC**  
**97 COVE ST**  
**NEW BEDFORD, MA 02744**

**RCRA-CESQG** **1000272535**  
**FINDS** **MAD001024314**  
**LUST**  
**UST**  
**RELEASE**  
**INST CONTROL**  
**FINANCIAL ASSURANCE**

**Relative:**  
**Higher**

**Actual:**  
**1 ft.**

**RCRA-CESQG:**

Date form received by agency: 08/18/1980  
Facility name: BERKSHIRE HATHAWAY INC  
Facility address: 97 COVE ST  
NEW BEDFORD, MA 02744  
EPA ID: MAD001024314  
Mailing address: PO BOX C904  
NEW BEDFORD, MA 02741  
Contact: KIMBALL-A BAKER JR  
Contact address: PO BOX C904  
NEW BEDFORD, MA 02741  
Contact country: US  
Contact telephone: (508) 997-4561  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: BERKSHIRE HATHAWAY INC  
Owner/operator address: PO BOX C904  
NEW BEDFORD, MA 02741  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/15/1993  
Owner/Op end date: Not reported  
Owner/operator name: BERKSHIRE HATHAWAY GREIGE MILL DIV  
Owner/operator address: PO BOX C904

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

NEW BEDFORD, MA 02741  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/16/2004  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 08/18/1980  
Facility name: BERKSHIRE HATHAWAY INC  
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U002  
Waste name: ACETONE (I)

Waste code: U080  
Waste name: METHANE, DICHLORO-

Waste code: U154  
Waste name: METHANOL (I)

Waste code: U210  
Waste name: ETHENE, TETRACHLORO-

Waste code: U226  
Waste name: ETHANE, 1,1,1-TRICHLORO-

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/01/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

FINDS:

Registry ID: 110001939868

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

LUST:

Facility:

Facility ID: 4-0015117  
**Facility Status: Release Action Outcome**  
Status Date: 10/21/2002  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 11/05/1999  
Category: 72 HR  
Associated ID: Not reported  
Phase: PHASE III  
Rspsn Actn Outcome Class: A3  
Oil Or Haz Material: Oil

Chemical:

Chemical: #6 FUEL OIL  
Quantity: 4 inches

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 10/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 10/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/01/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/26/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/23/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 04/20/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 04/18/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/31/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/08/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/08/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/05/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

UST:

Facility ID: 3358

Facility:

Owner Id: 679  
Owner: BERKSHIRE HATHAWAY INC  
Owner Address: 97 COVE ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

1000272535

Owner City,St,Zip: NEW BEDFORD, MA 02744  
Telephone: (508) 999-9900  
Description: Industrial  
Fire Dept. ID: 5201  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Tank ID: 1  
**Tank Status: Removed**  
Tank Useage: Not reported  
Tank Material: Not reported  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 50000  
Contents: Fuel Oil

Tank ID: 2  
**Tank Status: Removed**  
Tank Useage: Not reported  
Tank Material: Not reported  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 50000  
Contents: Fuel Oil

Release:

Facility ID: 4-0015117  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/05/1999  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 10/21/2002  
Phase: PHASE III  
Rspns Actn Outcome Class: A3  
Oil / Haz Material Type: Oil

Action:

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 10/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 10/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/01/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/26/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/23/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 04/20/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 04/18/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/31/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

Action Stat: Oral Approval of Plan  
Action Date: 11/08/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/08/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/05/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:  
Chemical: #6 FUEL OIL  
Quantity: 4 inches

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 10/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 10/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 08/01/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/26/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/23/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/21/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

Action Stat: Scope of Work Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 04/20/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 04/18/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/31/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/08/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/08/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/05/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BERKSHIRE HATHAWAY INC (Continued)**

**1000272535**

INST CONTROL:

Release Tracking Number: 4-0015117  
Action Type: AUL  
Action Stat: CONFRM  
Action Date: 10/06/2006  
Response Action Outcome: A3

Release Tracking Number: 4-0015117  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 01/23/2003  
Response Action Outcome: A3

Release Tracking Number: 4-0015117  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 10/21/2002  
Response Action Outcome: A3

FINASS2:

Facility Id: 3358  
Description: Industrial  
Work Phone: (508) 999-9900  
Financial Resp: Commercial, Normal

H37  
NNW  
1/2-1  
0.605 mi.  
3196 ft.

**NO LOCATION AID**  
**180 MACARTHUR DR**  
**NEW BEDFORD, MA**  
**Site 1 of 8 in cluster H**

**SHWS S106954129**  
**RELEASE N/A**

**Relative:**  
**Higher**

SHWS:  
Facility ID: 4-0016574  
Release Town: NEW BEDFORD  
Notification Date: 09/17/2001  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 09/24/2002  
Phase: Not reported  
Response Action Outcome Class: B1  
Oil Or Haz Material: Hazardous Material

**Actual:**  
**30 ft.**

Chemical:  
Chemical: BENZENE  
Quantity: 2000 parts per billion  
Chemical: TETRACHLOROETHYLENE  
Quantity: 28.3 parts per billion

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: UNKNOWN

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 02/19/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome

Action Stat: Fee Received

Action Date: 10/03/2002

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 09/24/2002

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 07/30/2002

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response

Action Stat: Completion Statement Received

Action Date: 07/19/2002

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response

Action Stat: Imminent Hazard Evaluation Received

Action Date: 07/19/2002

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response

Action Stat: Status Report Received

Action Date: 01/15/2002

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response

Action Stat: Level I - Technical Screen Audit

Action Date: 11/23/2001

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 11/09/2001

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response

Action Stat: Imminent Hazard Evaluation Received

Action Date: 11/09/2001

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/05/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 09/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 4-0014208  
Release Town: NEW BEDFORD  
Notification Date: 09/23/1998  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: URAM**  
Status Date: 07/17/2009  
Phase: PHASE IV  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

Chemical:  
Chemical: BENZENE, 1,3,5-TRIMETHYL-  
Quantity: 230 parts per million  
Chemical: ACENAPHTHYLENE  
Quantity: 940 parts per million  
Chemical: BENZ[A]ANTHRACENE  
Quantity: 700 parts per million  
Chemical: ANTHRACENE  
Quantity: 1100 parts per million  
Chemical: ACENAPHTHYLENE, 1,2-DIHYDRO  
Quantity: 1800 parts per million  
Chemical: BENZENE  
Quantity: 180 parts per million  
Chemical: 2-METHYLNAPHTHALENE  
Quantity: 4400 parts per million

Location:  
Location Type: PRIVPROP

Source:  
Source Type: UNKNOWN

Action:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Type: Utility-related Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 07/24/2009  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 07/17/2009  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/14/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: TSEVAL  
Action Date: 10/10/2007  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/03/2002  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 07/29/2002  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 07/29/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: Legal Notice Published  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/23/1999  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/23/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/23/1998  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Release:

Facility ID: 4-0014208  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/23/1998  
Category: 120 DY  
Facility Status: URAM  
Status Date: 07/17/2009  
Phase: PHASE IV  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Utility-related Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 07/24/2009  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 07/17/2009  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/14/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: TSEVAL  
Action Date: 10/10/2007  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/03/2002  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 07/29/2002  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 07/29/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: Legal Notice Published  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Date: 03/23/1999  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/23/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/23/1998  
Response Action Outcome: Not reported

Chemical:

Chemical: BENZENE, 1,3,5-TRIMETHYL-  
Quantity: 230 parts per million  
Chemical: ACENAPHTHYLENE  
Quantity: 940 parts per million  
Chemical: BENZ[A]ANTHRACENE  
Quantity: 700 parts per million  
Chemical: ANTHRACENE  
Quantity: 1100 parts per million  
Chemical: ACENAPHTHYLENE, 1,2-DIHYDRO  
Quantity: 1800 parts per million  
Chemical: BENZENE  
Quantity: 180 parts per million  
Chemical: 2-METHYLNAPHTHALENE  
Quantity: 4400 parts per million

Location:

Location Type: PRIVPROP

Source:

Source Type: UNKNOWN

Action:

Action Type: Utility-related Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 07/24/2009  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 07/17/2009  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/14/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: TSEVAL  
Action Date: 10/10/2007  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Date: 10/03/2002  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 07/29/2002  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 07/29/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: Legal Notice Published  
Action Date: 09/30/1999  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/23/1999  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/23/1998  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/23/1998  
Response Action Outcome: Not reported

Facility ID: 4-0016574  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/17/2001  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 09/24/2002  
Phase: Not reported  
Rspns Actn Outcome Class: B1  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: C&E  
Action Stat: NON  
Action Date: 02/19/2003  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/03/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/24/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/30/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 11/23/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Action Stat: ISSUED  
Action Date: 11/05/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 09/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:  
Chemical: BENZENE  
Quantity: 2000 parts per billion  
Chemical: TETRACHLOROETHYLENE  
Quantity: 28.3 parts per billion

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: UNKNOWN

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 02/19/2003  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/03/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/24/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/30/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954129**

Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 11/23/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/09/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/05/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 09/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**H38**  
**NNW**  
**1/2-1**  
**0.605 mi.**  
**3196 ft.**

**COMMONWEALTH ELECTRIC**  
**180 MACARTHUR DRIVE**  
**NEW BEDFORD, MA 02740**

**Manufactured Gas Plants**

**1008408464**  
**N/A**

**Site 2 of 8 in cluster H**

**Relative:**  
**Higher**

Manufactured Gas Plants:

Alternate Name: NEW BEDFORD GAS LIGHT CO; NEW BEDFORD GAS AND EDISON LIGHTING CO.

**Actual:**  
**30 ft.**

**H39**  
**NNW**  
**1/2-1**  
**0.605 mi.**  
**3196 ft.**

**NEW BEDFORD OCEANARIUM**  
**180 MACARTHUR DR**  
**NEW BEDFORD, MA 02741**

**FINDS** **1007085944**  
**SHWS** **N/A**  
**RELEASE**  
**AIRS**

**Site 3 of 8 in cluster H**

**Relative:**  
**Higher**

FINDS:

Registry ID: 110015656057

**Actual:**  
**30 ft.**

Environmental Interest/Information System

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

SHWS:

Facility ID: 4-0012592  
Release Town: NEW BEDFORD  
Notification Date: 08/26/1996  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status:** **Tier 1B, A site/release where an NRS score of less than 550 and equal t or greater than 450. These sites/releases require a permit and the response actions may be performed under the supervision of a Licensed Site Professional (LSP) without prior DEP approval, unless such an approval is specifically required by DEP.**  
Status Date: 09/24/1999  
Phase: PHASE IV  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

Chemical:

Chemical: CREOSOTE  
Quantity: Not reported  
Chemical: COAL TAR  
Quantity: Not reported

Location:

Location Type: COMMERCIAL  
Location Type: WATERBODY

Source:

Source Type: UNKNOWN

Action:

Action Type: BWS02  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type:	BWS20
Action Stat:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	BWS20
Action Stat:	PREAPP
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	10/06/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	06/12/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	06/11/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	04/21/2009
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	02/19/2009
Response Action Outcome:	Not reported
Action Type:	Phase III
Action Stat:	Revised Statement or Transmittal Received
Action Date:	02/19/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	10/14/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	04/17/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	11/01/2007
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Date: 10/29/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/19/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/10/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/07/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/01/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/26/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/01/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/24/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/15/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/22/2004  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 05/16/2003  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/22/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/10/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/16/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 05/09/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/18/2000  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/15/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: Legal Notice Published  
Action Date: 09/15/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/20/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/16/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 07/02/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/01/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 03/06/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 03/05/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 11/19/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	09/02/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	09/02/1997
Response Action Outcome:	Not reported
Action Type:	Phase I
Action Stat:	Completion Statement Received
Action Date:	09/02/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	08/21/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/04/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	05/28/1997
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	03/24/1997
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/15/1997
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	08/26/1996
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome Not Required
Action Stat:	Adequately Regulated
Action Date:	08/26/1996
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0012592
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	08/26/1996
Category:	TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Facility Status: TIER1B  
Status Date: 09/24/1999  
Phase: PHASE IV  
Rsps Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: BWS02  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: PREAPP  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/06/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 06/12/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 06/11/2009  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/21/2009  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 02/19/2009  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 02/19/2009  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/14/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Stat: Status Report Received  
Action Date: 04/17/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/01/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/29/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/19/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/10/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/07/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/01/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/26/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/01/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/24/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/15/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/11/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/22/2004  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 05/16/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/22/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/10/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/16/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 05/09/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/18/2000  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/15/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: Legal Notice Published  
Action Date: 09/15/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/20/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/16/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 07/02/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/01/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 03/06/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Date: 03/05/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 11/19/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 08/21/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/04/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/28/1997  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/24/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/15/1997  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/26/1996  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type: Response Action Outcome Not Required  
Action Stat: Adequately Regulated  
Action Date: 08/26/1996  
Response Action Outcome: Not reported

Chemical:  
Chemical: CREOSOTE  
Quantity: Not reported  
Chemical: COAL TAR  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: BWS02  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: PREAPP  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/06/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 06/12/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 06/11/2009  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/21/2009  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 02/19/2009  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type: Phase III  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 02/19/2009  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/14/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/17/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/01/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/29/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/19/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/10/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/07/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/01/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/26/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/01/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Date: 10/24/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/15/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/22/2004  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 05/16/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/22/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/10/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/16/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 05/09/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/18/2000  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/15/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 09/24/1999  
Response Action Outcome: Not reported

Action Type: PIP  
Action Stat: Legal Notice Published  
Action Date: 09/15/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/20/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/16/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 07/02/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Date: 06/01/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 03/06/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 03/05/1998  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 11/19/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/02/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 08/21/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/04/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/28/1997  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/24/1997  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD OCEANARIUM (Continued)**

**1007085944**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/15/1997  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/26/1996  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Adequately Regulated  
Action Date: 08/26/1996  
Response Action Outcome: Not reported

**AIRS:**

Facility Status: APPROV  
Permit Code: AQ02  
Permit Name: Non-Major Comprehensive Approval  
DEP Region: SE  
Application Tracking Number: W029271  
Date Closed: 4/23/2003  
DEP Region Number: 377725  
Applicant Name: NEW BEDFORD OCEANARIUM CORP  
Applicant Address: 128 UNION ST  
Applicant City,St,Zip: NEW BEDFORD, MA 027410000  
Applicant Telephone: 5089945400

**H40  
NNW  
1/2-1  
0.605 mi.  
3196 ft.**

**COMMONWEALTH ELECTRIC PROPERTY  
180 MACARTHUR DRIVE  
NEW BEDFORD, MA 02740**

**CERCLIS 1003072911  
MAN000103064**

**Site 4 of 8 in cluster H**

**Relative:  
Higher**

CERCLIS:  
Site ID: 0103064  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup

**Actual:  
30 ft.**

**CERCLIS Site Contact Name(s):**

Contact Name: Not reported  
Contact Tel: Not reported  
Contact Title: 12701

Site Description: Not reported

**CERCLIS Assessment History:**

Action: DISCOVERY  
Date Started: Not reported  
Date Completed: 7/13/2000 0:00:00  
Priority Level: Not reported

Action: COMBINED PA/SI  
Date Started: 7/13/2000 0:00:00  
Date Completed: 4/23/2003 0:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMMONWEALTH ELECTRIC PROPERTY (Continued)**

1003072911

Priority Level: Low priority for further assessment

H41  
NNW  
1/2-1  
0.605 mi.  
3196 ft.

**NSTAR ELECTRIC GAS  
180 MACARTHUR DR  
NEW BEDFORD, MA 02740**

**Site 5 of 8 in cluster H**

**RCRA-SQG 1000301793  
PADS MAD002577575  
LAST  
MANIFEST  
MANIFEST  
RELEASE**

**Relative:  
Higher**

**RCRA-SQG:**

**Actual:  
30 ft.**

Date form received by agency: 11/29/2004  
Facility name: NSTAR ELECTRIC GAS  
Facility address: 180 MACARTHUR BLVD  
NEW BEDFORD, MA 02740  
EPA ID: MAD002577575  
Mailing address: ONE NSTAR WAY  
WESTWOOD, MA 020900000  
Contact: JONATHAN REICH  
Contact address: ONE NSTAR WAY  
WESTWOOD, MA 020900000  
Contact country: US  
Contact telephone: (781) 441-3807  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: NSTAR ELECTRIC GAS  
Owner/operator address: ONE NSTAR WAY  
WESTWOOD, MA 02090  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 11/29/2004  
Owner/Op end date: Not reported

Owner/operator name: NSTAR ELECTRIC GAS  
Owner/operator address: ONE NSTAR WAY  
WESTWOOD, MA 02090  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 11/29/2004  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 02/07/1992  
Facility name: NSTAR ELECTRIC GAS  
Site name: COM ELECTRIC CANNON ST GENL STA  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990  
Facility name: NSTAR ELECTRIC GAS  
Site name: COM/ELECTRIC CANNON ST ELECTRIC  
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980  
Facility name: NSTAR ELECTRIC GAS  
Site name: COM ELECTRIC CANNON ST GEN STA  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: MA98  
Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008  
Waste name: LEAD

Waste code: D009  
Waste name: MERCURY

Waste code: D018  
Waste name: BENZENE

Waste code: MA01  
Waste name: WASTE OIL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Waste code: MA02  
Waste name: PCB WASTES

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 09/17/1985  
Date achieved compliance: 04/22/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 04/23/1985  
Date achieved compliance: 04/22/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 04/23/1985  
Date achieved compliance: 04/22/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 07/24/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 12/03/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 04/22/1992  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/17/1985  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 04/22/1992  
Evaluation lead agency: State

Evaluation date: 04/23/1985  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 04/22/1992  
Evaluation lead agency: State

LAST:

Facility ID: 4-0015755  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 09/14/2000  
Category: 72 HR  
Associated ID: Not reported  
**Facility Status: Response Action Outcome Not Required**  
Status Date: 07/13/2001  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:

Chemical: COAL TAR  
Quantity: 84 inches

Location:

Location Type: INDUSTRIAL

Source:

Source Type: AST

Action:

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/12/2001  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/13/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/13/2000  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/05/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000  
Response Action Outcome: Not reported

**NY MANIFEST:**

EPA ID: MAD002577575  
Country: USA  
Mailing Name: COMMONWEALTH ELECTRIC COMPANY  
Mailing Contact: EDWIN E NICHOLSON  
Mailing Address: 180 MCAURTHUR DRIVE  
Mailing Address 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Mailing City: NEW BEDFORD  
Mailing State: MA  
Mailing Zip: 02740  
Mailing Zip4: Not reported  
Mailing Country: USA  
Mailing Phone: 617-291-0950

Document ID: NYO1079694  
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC  
Trans1 State ID: MA006  
Trans2 State ID: Not reported  
Generator Ship Date: 840607  
Trans1 Recv Date: 840607  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 840611  
Part A Recv Date: 840703  
Part B Recv Date: 840726  
Generator EPA ID: MAD002577575  
Trans1 EPA ID: MAD039322250  
Trans2 EPA ID: Not reported  
TSDF ID: NYD049836679  
Waste Code: B004 - PCB ARTICLES WITH 50 PPM BUT < 500 PPM  
Quantity: 40000  
Units: P - Pounds  
Number of Containers: 001  
Container Type: CM - Metal boxes, cases, roll-offs  
Handling Method: L Landfill.  
Specific Gravity: 100  
Year: 84  
Manifest Tracking Num: Not reported  
Import Ind: Not reported  
Export Ind: Not reported  
Discr Quantity Ind: Not reported  
Discr Type Ind: Not reported  
Discr Residue Ind: Not reported  
Discr Partial Reject Ind: Not reported  
Discr Full Reject Ind: Not reported  
Manifest Ref Num: Not reported  
Alt Fac RCRA Id: Not reported  
Alt Fac Sign Date: Not reported  
Mgmt Method Type Code: Not reported

**MANIFEST:**

GEN Cert Date: 8/4/2000  
Transporter Recpt Date: Not reported  
Number Of Containers: 0  
Container Type: MA01  
Waste Code1: MA98  
Waste Code2: Not reported  
Waste Code3: Not reported  
Comment: gen date approx  
Fee Exempt Code: Not reported  
TSDF Name: SK  
TSDF ID: rid040098352  
TSDF Date: Not reported  
Date Imported: 9/29/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Transporter 2 Name: Not reported  
Transporter 2 ID: Not reported  
Manifest Docket Number: Not reported  
Waste Description: Not reported  
Quantity: Not reported  
WT/Vol Units: Not reported  
Item Number: Not reported  
Transporter Name: Not reported  
Transporter EPA ID: Not reported  
GEN Cert Date: Not reported  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSDF Recpt Date: Not reported  
EPA ID: Not reported  
Transporter 2 ID: Not reported

**Release:**

Facility ID: 4-0015755  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/14/2000  
Category: 72 HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 07/13/2001  
Phase: Not reported  
Rspsn Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

**Action:**

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/12/2001  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/13/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/13/2000  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/05/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000  
Response Action Outcome: Not reported

Chemical:  
Chemical: COAL TAR  
Quantity: 84 inches

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: AST

Action:  
Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/09/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 04/13/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/12/2001  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/13/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/13/2000  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/05/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NSTAR ELECTRIC GAS (Continued)**

**1000301793**

Action Date: 09/14/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000  
Response Action Outcome: Not reported

**H42**  
**NNW**  
**1/2-1**  
**0.605 mi.**  
**3196 ft.**

**CANNON ST STATION**  
**180 MACARTHUR DR**  
**NEW BEDFORD, MA**  
**Site 6 of 8 in cluster H**

**SHWS** **S104774358**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

**Actual:**  
**30 ft.**

SHWS:  
Facility ID: 4-0015570  
Release Town: NEW BEDFORD  
Notification Date: 06/23/2000  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 07/22/2003  
Phase: PHASE IV  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: FUEL OIL  
Quantity: Not reported

Location:  
Location Type: Not reported

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 06/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CANNON ST STATION (Continued)**

**S104774358**

reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/23/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/30/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/30/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CANNON ST STATION (Continued)**

**S104774358**

Action Stat: REPORT  
Action Date: 06/23/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 06/23/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0015570  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 06/23/2000  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 07/22/2003  
Phase: PHASE IV  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 06/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CANNON ST STATION (Continued)**

**S104774358**

Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 10/23/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/30/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/30/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/23/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 06/23/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CANNON ST STATION (Continued)**

**S104774358**

Chemical:

Chemical: FUEL OIL  
Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: UNKNOWN

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 06/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/26/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CANNON ST STATION (Continued)**

**S104774358**

Action Type: Immediate Response  
 Action Stat: Status Report Received  
 Action Date: 10/23/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
 Action Stat: Written Plan Received  
 Action Date: 08/30/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
 Action Stat: REPORT  
 Action Date: 08/22/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
 Action Stat: FOLOFF  
 Action Date: 07/05/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
 Action Stat: ISSUED  
 Action Date: 06/30/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 06/23/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
 Action Stat: Oral Approval of Plan  
 Action Date: 06/23/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**H43**  
**NNW**  
**1/2-1**  
**0.605 mi.**  
**3196 ft.**

**COMM ELECTRIC POWER PLANT FMR**  
**180 MACARTHUR DR**  
**NEW BEDFORD, MA**  
**Site 7 of 8 in cluster H**

**SHWS** **S104847652**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

SHWS:  
 Facility ID: 4-0015896  
 Release Town: NEW BEDFORD  
 Notification Date: 11/20/2000  
 Category: 120 DY  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 03/23/2001  
 Phase: Not reported

**Actual:**  
**30 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMM ELECTRIC POWER PLANT FMR (Continued)**

**S104847652**

Response Action Outcome Class: B1  
Oil Or Haz Material: Hazardous Material

Chemical:  
Chemical: ETHENE, 1,1-DICHLORO-  
Quantity: 210 parts per billion

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/12/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/23/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/15/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/20/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/20/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:  
Facility ID: 4-0015896  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/20/2000  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 03/23/2001  
Phase: Not reported  
Rspns Actn Outcome Class: B1  
Oil / Haz Material Type: Hazardous Material

Action:  
Action Type: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMM ELECTRIC POWER PLANT FMR (Continued)**

**S104847652**

Action Stat: Level I - Technical Screen Audit  
Action Date: 04/12/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/23/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/15/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/20/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/20/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:  
Chemical: ETHENE, 1,1-DICHLORO-  
Quantity: 210 parts per billion

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/12/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/23/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/15/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMM ELECTRIC POWER PLANT FMR (Continued)**

**S104847652**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/20/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/20/2000  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

**H44**  
**NNW**  
**1/2-1**  
**0.605 mi.**  
**3196 ft.**

**SOUTH TRANSFORMER YARD**  
**180 MACARTHUR DR**  
**NEW BEDFORD, MA**

**SHWS** **S104232405**  
**RELEASE** **N/A**

**Site 8 of 8 in cluster H**

**Relative:**  
**Higher**

**SHWS:**  
Facility ID: 4-0011345  
Release Town: NEW BEDFORD  
Notification Date: 05/04/1995  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 09/01/1995  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

**Actual:**  
**30 ft.**

**Chemical:**  
Chemical: TRANSFORMER OIL  
Quantity: 10 gallons  
Chemical: TRANSFORMER OIL  
Quantity: Not reported

**Location:**  
Location Type: INDUSTRIAL

**Source:**  
Source Type: TRANSFORM

**Action:**  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/01/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/30/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 06/30/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH TRANSFORMER YARD (Continued)**

**S104232405**

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/10/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0018316  
Release Town: NEW BEDFORD  
Notification Date: 03/12/2004  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status:** **Release Action Outcome**  
Status Date: 04/05/2004  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: HYDRAULIC FLUID  
Quantity: Not reported  
Chemical: HYDRAULIC FLUID  
Quantity: 10000 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: BWS20  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH TRANSFORMER YARD (Continued)**

**S104232405**

Action Date: 04/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 03/18/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 03/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0011345  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/04/1995  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 09/01/1995  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/01/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/30/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 06/30/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH TRANSFORMER YARD (Continued)**

**S104232405**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/10/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: TRANSFORMER OIL  
Quantity: 10 gallons  
Chemical: TRANSFORMER OIL  
Quantity: Not reported

Location:  
Location Type: INDUSTRIAL

Source:  
Source Type: TRANSFORM

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/01/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/30/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 06/30/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/10/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH TRANSFORMER YARD (Continued)**

**S104232405**

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0018316  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/12/2004  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 04/05/2004  
Phase: Not reported  
Rspsn Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: BWS20  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 03/18/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/12/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH TRANSFORMER YARD (Continued)**

**S104232405**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 03/12/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: HYDRAULIC FLUID

Quantity: Not reported

Chemical: HYDRAULIC FLUID

Quantity: 10000 parts per million

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: BWS20

Action Stat: APPROV

Action Date: Not reported

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: Level I - Technical Screen Audit

Action Date: 04/09/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 04/05/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Fee Received

Action Date: 03/18/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 03/12/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Action Stat: REPORT

Action Date: 03/12/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH TRANSFORMER YARD (Continued)**

**S104232405**

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 03/12/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

45  
NW  
1/2-1  
0.657 mi.  
3472 ft.

545 PURCHASE ST  
NEW BEDFORD, MA 02740

LAST  
RELEASE  
LEAD  
S105914148  
N/A

Relative:  
Higher

LAST:  
Facility ID: 4-0017828  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 05/22/2003  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**  
Status Date: 06/30/2003  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Actual:  
31 ft.

Chemical:  
Chemical: OIL  
Quantity: 30 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105914148

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/13/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0017828  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/22/2003  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 06/30/2003  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105914148

Action Stat: ISSUED  
Action Date: 06/13/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: OIL  
Quantity: 30 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/13/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105914148

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/22/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LEAD:

Community: New Bedford  
Unit: 1  
Inspector Name: Robert Powers  
Inspector License Number: 3651  
Activity Type: INSPECT  
Activity Date: 7/24/2008  
Start Work Date: Not reported  
Activity Descriptions: Comprehensive Initial Inspection  
Outcomes: Hazards Found

46  
SW  
1/2-1  
0.689 mi.  
3637 ft.

NO LOCATION AID  
104 WINSOR ST  
NEW BEDFORD, MA

SHWS S107678218  
LUST N/A  
RELEASE

Relative:  
Higher

SHWS:  
Facility ID: 4-0019580  
Release Town: NEW BEDFORD  
Notification Date: 01/25/2006  
Category: 72 HR  
Associated ID: Not reported  
**Compliance Status: Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**  
Status Date: 02/01/2007  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Actual:  
3 ft.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: Not reported  
Location:  
Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

Source:  
Source Type: PIPE  
Source Type: UST

Action:  
Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/30/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S107678218**

Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/27/2006  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

LUST:

Facility:

Facility ID: 4-0019580  
**Facility Status: Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**

Status Date: 02/01/2007  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 01/25/2006  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:

Chemical: #2 FUEL OIL  
Quantity: Not reported

Location:

Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

Source:

Source Type: PIPE  
Source Type: UST

Action:

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/30/2008  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/27/2006  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S107678218**

Release:

Facility ID: 4-0019580  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/25/2006  
Category: 72 HR  
Facility Status: TIER1D  
Status Date: 02/01/2007  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/30/2008  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/27/2006  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Chemical:

Chemical: #2 FUEL OIL  
Quantity: Not reported

Location:

Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

Source:

Source Type: PIPE  
Source Type: UST

Action:

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/30/2008  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/27/2006  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

47  
WSW  
1/2-1  
0.703 mi.  
3714 ft.

TEXIERA RESIDENCE  
138-140 ROCKLAND ST  
NEW BEDFORD, MA

SHWS S105810862  
RELEASE N/A

Relative:  
Higher

SHWS:

Facility ID: 4-0017564  
Release Town: NEW BEDFORD  
Notification Date: 01/02/2003  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 03/06/2003  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Not reported

Actual:  
25 ft.

Chemical:

Chemical: #2 FUEL  
Quantity: Not reported

Location:

Location Type: RESIDENTIAL

Source:

Source Type: TANKER

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/11/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/06/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/06/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/17/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TEXIERA RESIDENCE (Continued)**

**S105810862**

Action Date: 01/09/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/06/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0017564  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/02/2003  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 03/06/2003  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/11/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TEXIERA RESIDENCE (Continued)**

**S105810862**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/06/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/06/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/21/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/17/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 01/09/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/06/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/02/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/02/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TEXIERA RESIDENCE (Continued)**

**S105810862**

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: #2 FUEL  
Quantity: Not reported

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: TANKER

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/11/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/06/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/06/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/21/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/17/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 01/09/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TEXIERA RESIDENCE (Continued)

S105810862

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/06/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 01/02/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

48  
SSE  
1/2-1  
0.705 mi.  
3721 ft.

NO LOCATION AID  
51 CLEVELAND ST  
NEW BEDFORD, MA 02744

LAST  
RELEASE S104232386  
N/A

Relative:  
Equal

LAST:  
Facility ID: 4-0011192  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 03/11/1995  
Category: TWO HR  
Associated ID: Not reported  
Facility Status: Release Action Outcome  
Status Date: 04/25/1995  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Actual:  
0 ft.

Chemical:  
Chemical: #2 FUEL OIL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232386**

Quantity: 100 gallons  
Chemical: #2 FUEL OIL  
Quantity: 25 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/05/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0011192  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/11/1995  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 04/25/1995  
Phase: Not reported  
Rspns Actn Outcome Class: A1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232386**

Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/05/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical: #2 FUEL OIL  
Quantity: 100 gallons  
Chemical: #2 FUEL OIL  
Quantity: 25 gallons

Location:

Location Type: RESIDENTIAL

Source:

Source Type: AST

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232386**

Action Stat: REPORT  
Action Date: 04/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/05/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/11/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

49  
NW  
1/2-1  
0.726 mi.  
3832 ft.

**MAP 46 LOTS 160 & 163  
WALNUT / PLEASANT ST  
NEW BEDFORD, MA 02740**

**SHWS S109612955  
RELEASE N/A**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0021870  
Release Town: NEW BEDFORD  
Notification Date: 04/03/2009  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Unclassified**  
Status Date: 04/03/2009  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil and Hazardous Material

**Actual:  
46 ft.**

Chemical:  
Chemical: TPH  
Quantity: 1000 milligrams per kilogram  
Chemical: LEAD  
Quantity: 872 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MAP 46 LOTS 160 & 163 (Continued)

S109612955

Action:

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/05/2009  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/03/2009  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/03/2009  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0021870  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/03/2009  
Category: 120 DY  
Facility Status: Unclassified Waste Site  
Status Date: 04/03/2009  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil and Hazardous Material

Action:

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/05/2009  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/03/2009  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/03/2009  
Response Action Outcome: Not reported

Chemical:

Chemical: TPH  
Quantity: 1000 milligrams per kilogram  
Chemical: LEAD  
Quantity: 872 milligrams per kilogram

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MAP 46 LOTS 160 & 163 (Continued)**

**S109612955**

Action:  
 Action Type: Notice of Responsibility  
 Action Stat: ISSUED  
 Action Date: 10/05/2009  
 Response Action Outcome: Not reported

Action Type: RNF  
 Action Stat: REPORT  
 Action Date: 04/03/2009  
 Response Action Outcome: Not reported

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 04/03/2009  
 Response Action Outcome: Not reported

**150**  
**West**  
**1/2-1**  
**0.730 mi.**  
**3852 ft.**

**DOYLE SQ SERVICE STATION**  
**20 DARTMOUTH ST**  
**NEW BEDFORD, MA 02740**

**LUST** **S100831244**  
**RELEASE** **N/A**

**Site 1 of 2 in cluster I**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**36 ft.**

Facility:

Facility ID: 4-0000119  
**Facility Status: Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**

Status Date: 08/09/1995  
 Source Type: UST  
 Release Town: NEW BEDFORD  
 Notification Date: 02/12/1986  
 Category: NONE  
 Associated ID: Not reported  
 Phase: Not reported  
 Rspns Actn Outcome Class: Not reported  
 Oil Or Haz Material: Not reported

Chemical:

Chemical: UNKNOWN  
 Quantity: Not reported

Location:

Location Type: GASSTATION  
 Location Type: FORMER

Source:

Source Type: UST

Action:

Action Type: C&E  
 Action Stat: NON  
 Action Date: 03/09/2000  
 Response Action Outcome: Not reported

Action Type: Release  
 Action Stat: TCTRNS  
 Action Date: 02/12/1986  
 Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DOYLE SQ SERVICE STATION (Continued)**

**S100831244**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1986  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/22/1986  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0000119  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 02/12/1986  
Category: NONE  
Facility Status: TIER1D  
Status Date: 08/09/1995  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: C&E  
Action Stat: NON  
Action Date: 03/09/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 02/12/1986  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1986  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/22/1986  
Response Action Outcome: Not reported

Chemical:

Chemical: UNKNOWN  
Quantity: Not reported

Location:

Location Type: GASSTATION  
Location Type: FORMER

Source:

Source Type: UST

Action:

Action Type: C&E  
Action Stat: NON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DOYLE SQ SERVICE STATION (Continued)**

**S100831244**

Action Date: 03/09/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 02/12/1986  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1986  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/22/1986  
Response Action Outcome: Not reported

51  
SSW  
1/2-1  
0.730 mi.  
3857 ft.

**GROTAS MOTORS  
1163 COVE RD  
NEW BEDFORD, MA**

**LUST S103812671  
RELEASE N/A**

Relative:  
Equal

LUST:

Facility:

Actual:  
0 ft.

Facility ID: 4-0014629  
**Facility Status: Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**

Status Date: 06/20/2000  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 03/29/1999  
Category: 72 HR  
Associated ID: Not reported  
Phase: PHASE II  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: C11-C22 AROMATICS  
Quantity: 2930 parts per million  
Chemical: GASOLINE  
Quantity: 570 parts per million  
Chemical: C9-C18 ALIPHATICS  
Quantity: 6920 parts per million  
Chemical: C9-C10 AROMATICS  
Quantity: 2390 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GROTAS MOTORS (Continued)**

**S103812671**

Action:

Action Type: Response Action Outcome  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 04/23/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/20/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/20/2000  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/19/2000  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/27/1999  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/06/1999  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/29/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 03/29/1999  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0014629  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/29/1999  
Category: 72 HR  
Facility Status: TIERII  
Status Date: 06/20/2000  
Phase: PHASE II  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Notice of Delay in meeting Response Action Deadline

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GROTAS MOTORS (Continued)**

**S103812671**

Action Date: 04/23/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/20/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/20/2000  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/19/2000  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/27/1999  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/06/1999  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/29/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 03/29/1999  
Response Action Outcome: Not reported

Chemical:  
Chemical: C11-C22 AROMATICS  
Quantity: 2930 parts per million  
Chemical: GASOLINE  
Quantity: 570 parts per million  
Chemical: C9-C18 ALIPHATICS  
Quantity: 6920 parts per million  
Chemical: C9-C10 AROMATICS  
Quantity: 2390 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 04/23/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GROTAS MOTORS (Continued)**

**S103812671**

Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/20/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/20/2000  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/19/2000  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/27/1999  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/06/1999  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/29/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 03/29/1999  
Response Action Outcome: Not reported

**I52**  
**West**  
**1/2-1**  
**0.739 mi.**  
**3900 ft.**

**METRO PIZZA**  
**32 DARTMOUTH ST**  
**NEW BEDFORD, MA**  
**Site 2 of 2 in cluster I**

**LAST** **S106954232**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

LAST:  
Facility ID: 4-0019118  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 05/23/2005  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status:** **Release Action Outcome**  
Status Date: 10/21/2005  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

**Actual:**  
**39 ft.**

Chemical:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**METRO PIZZA (Continued)**

**S106954232**

Chemical: #2 FUEL OIL  
Quantity: 150 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/18/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/25/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 10/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 06/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/27/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**METRO PIZZA (Continued)**

**S106954232**

Action Stat: REPORT  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0019118  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/23/2005  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 10/21/2005  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/18/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/25/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 10/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 06/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**METRO PIZZA (Continued)**

**S106954232**

Action Date: 06/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/27/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 150 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 08/18/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/25/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**METRO PIZZA (Continued)**

**S106954232**

Action Stat: Completion Statement Received  
Action Date: 10/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 06/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/27/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 05/23/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

J53  
North  
1/2-1  
0.744 mi.  
3926 ft.

STATE PIER  
NEW BEDFORD, MA  
Site 1 of 2 in cluster J

SHWS S101020574  
RELEASE N/A  
SPILLS

Relative:  
Higher

SHWS:  
Facility ID: 4-0017634  
Release Town: NEW BEDFORD  
Notification Date: 02/11/2003  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 11/05/2003  
Phase: Not reported  
Response Action Outcome Class: Not reported

Actual:  
14 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S101020574

Oil Or Haz Material: Oil  
Chemical:  
Chemical: UNIDENTIFIED PETROLEUM PRODUCT  
Quantity: Not reported  
Location:  
Location Type: WATERBODY  
Source:  
Source Type: BOAT  
Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 11/05/2003  
Response Action Outcome: Not reported  
  
Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/11/2003  
Response Action Outcome: Not reported  
  
Action Type: Release  
Action Stat: REPORT  
Action Date: 02/11/2003  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0017634  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 02/11/2003  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 11/05/2003  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 11/05/2003  
Response Action Outcome: Not reported  
  
Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/11/2003  
Response Action Outcome: Not reported  
  
Action Type: Release  
Action Stat: REPORT  
Action Date: 02/11/2003  
Response Action Outcome: Not reported

Chemical:  
Chemical: UNIDENTIFIED PETROLEUM PRODUCT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S101020574

Quantity: Not reported  
Location:  
Location Type: WATERBODY  
Source:  
Source Type: BOAT  
Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 11/05/2003  
Response Action Outcome: Not reported  
  
Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/11/2003  
Response Action Outcome: Not reported  
  
Action Type: Release  
Action Stat: REPORT  
Action Date: 02/11/2003  
Response Action Outcome: Not reported

MA Spills:

Facility ID: 0000  
Staff Lead: MORAN, M  
Last Entered: 19871014  
Spill Date: 19870923  
Report Date: 19870923  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: Not reported  
Material: MISCELLANEOUS OIL  
Qty Reported: NONE  
Qty Reported: \_\_\_\_\_  
CAS No: Not reported  
Source: Not reported  
Incident: Not reported  
Cleanup Type: Not reported  
Referral: NO  
Report Prep: Not reported  
Notifier: Not reported  
Notif Tel: Not reported  
Days/Close: 1

Spill ID: S87-0615  
Date Entered: 19871014  
First Response: 19870924  
Spill Time: Not reported  
Report Time: 6  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: NONE  
Qty Actual: \_\_\_\_\_  
PCB Lev (ppm): Not reported  
Other Source: Not reported  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: Not reported  
Category: Not reported

Facility ID: 0000  
Staff Lead: BRENNAN, S  
Last Entered: 19920921  
Spill Date: 19920812  
Report Date: 19920812  
Case Closed: YES  
Virgin Waste: WASTE  
Env Impact: Not reported  
Material: OTHER MATERIAL -->  
Qty Reported: SHEEN  
Qty Reported: -----

Spill ID: S92-0613  
Date Entered: Not reported  
First Response: 19920812  
Spill Time: 02:15PM  
Report Time: 02:20PM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: BILGE WATER SUSPECTED  
Qty Actual: UNKNOWN  
Qty Actual: -----

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

(Continued)

S101020574

CAS No: Not reported  
 Source: BOAT  
 Incident: OTHER RELEASE >  
 Cleanup Type: ---  
 Referral: NO  
 Report Prep: Not reported  
 Notifier: LT JG PETIT/USCG  
 Notif Tel: Not reported  
 Days/Close: 1

PCB Lev (ppm): NONE  
 Other Source: Not reported  
 Other Incdnt: BILGE WATER  
 Contractor: NOT USED  
 LUST Elig: NO  
 Category: Not reported

Facility ID: 0000  
 Staff Lead: PACKARD, R  
 Last Entered: 19920909  
 Spill Date: Not reported  
 Report Date: 19920904  
 Case Closed: YES  
 Virgin Waste: -----  
 Env Impact: Not reported  
 Material: OTHER MATERIAL -->  
 Qty Reported: 11-50  
 Qty Reported: GALLONS  
 CAS No: Not reported  
 Source: OTHER SOURCE >  
 Incident: OTHER RELEASE >  
 Cleanup Type: ---  
 Referral: NO  
 Report Prep: Not reported  
 Notifier: LT PHILLIPS/USCG  
 Notif Tel: Not reported  
 Days/Close: 1

Spill ID: S92-0633  
 Date Entered: Not reported  
 First Response: 19920904  
 Spill Time: Not reported  
 Report Time: 02:00PM  
 Mat Type: PETROLEUM  
 Contam Soil: Not reported  
 Other Impact: Not reported  
 Other Material: UNKNOWN  
 Qty Actual: -----  
 Qty Actual: -----  
 PCB Lev (ppm): -----  
 Other Source: UNKNOWN  
 Other Incdnt: UNKNOWN  
 Contractor: NOT USED  
 LUST Elig: NO  
 Category: Not reported

Facility ID: 0000  
 Staff Lead: BRENNAN, S  
 Last Entered: 19920417  
 Spill Date: 19920407  
 Report Date: 19920407  
 Case Closed: YES  
 Virgin Waste: WASTE  
 Env Impact: Not reported  
 Material: OTHER MATERIAL -->  
 Qty Reported: SHEEN  
 Qty Reported: -----  
 CAS No: Not reported  
 Source: -----  
 Incident: -----  
 Cleanup Type: ---  
 Referral: NO  
 Report Prep: Not reported  
 Notifier: PO MADDEN/USCG  
 Notif Tel: Not reported  
 Days/Close: 1

Spill ID: S92-0232  
 Date Entered: Not reported  
 First Response: 19920407  
 Spill Time: 11:40AM  
 Report Time: 11:45AM  
 Mat Type: PETROLEUM  
 Contam Soil: Not reported  
 Other Impact: Not reported  
 Other Material: EMULSIFIED OIL  
 Qty Actual: -----  
 Qty Actual: -----  
 PCB Lev (ppm): NONE  
 Other Source: Not reported  
 Other Incdnt: Not reported  
 Contractor: NOT USED  
 LUST Elig: NO  
 Category: Not reported

Facility ID: 0000  
 Staff Lead: PINAUD, L  
 Last Entered: 19920923  
 Spill Date: 19920922  
 Report Date: 19920922

Spill ID: S92-0678  
 Date Entered: Not reported  
 First Response: 19920922  
 Spill Time: 07:55AM  
 Report Time: 08:45AM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S101020574

Case Closed: YES  
Virgin Waste: -----  
Env Impact: Not reported  
Material: OTHER MATERIAL -->  
Qty Reported: -----  
Qty Reported: -----  
CAS No: Not reported  
Source: VEH. FUEL TANK  
Incident: OTHER RELEASE >  
Cleanup Type: ---  
Referral: NO  
Report Prep: Not reported  
Notifier: LT TINA BURKE/USCG  
Notif Tel: Not reported  
Days/Close: 1

Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: UNKNOWN  
Qty Actual: -----  
Qty Actual: -----  
PCB Lev (ppm): -----  
Other Source: Not reported  
Other Incdnt: UNKNOWN  
Contractor: NOT USED  
LUST Elig: NO  
Category: Not reported

Facility ID: 0000  
Staff Lead: BRENNAN, S  
Last Entered: 19920727  
Spill Date: Not reported  
Report Date: 19920719  
Case Closed: YES  
Virgin Waste: -----  
Env Impact: Not reported  
Material: OTHER MATERIAL -->  
Qty Reported: -----  
Qty Reported: -----  
CAS No: Not reported  
Source: BOAT  
Incident: -----  
Cleanup Type: ---  
Referral: NO  
Report Prep: Not reported  
Notifier: JOSEPH PRENDA  
Notif Tel: Not reported  
Days/Close: 1

Spill ID: S92-0499  
Date Entered: Not reported  
First Response: 19920719  
Spill Time: Not reported  
Report Time: 10:50AM  
Mat Type: NEITHER  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: UNKNOWN  
Qty Actual: -----  
Qty Actual: -----  
PCB Lev (ppm): NONE  
Other Source: Not reported  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: NO  
Category: Not reported

Facility ID: 0000  
Staff Lead: PINAUD, L  
Last Entered: 19920228  
Spill Date: 19910705  
Report Date: 19910710  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: Not reported  
Material: DIESEL FUEL  
Qty Reported: 10-50  
Qty Reported: GALLONS  
CAS No: Not reported  
Source: BOAT  
Incident: OVERFILL  
Cleanup Type: ---  
Referral: NO  
Report Prep: Not reported  
Notifier: CHRIS BLAKE/FRANK CORP  
Notif Tel: Not reported  
Days/Close: 1

Spill ID: S91-0378  
Date Entered: 19920228  
First Response: 19910710  
Spill Time: 11:00AM  
Report Time: 01:30PM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: -----  
Qty Actual: -----  
PCB Lev (ppm): NONE  
Other Source: Not reported  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: ---  
Category: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

(Continued)

S101020574

Facility ID: 0000  
 Staff Lead: PINAUD, L  
 Last Entered: 19901001  
 Spill Date: 19900925  
 Report Date: 19900925  
 Case Closed: YES  
 Virgin Waste: -----  
 Env Impact: Not reported  
 Material: MISCELLANEOUS OIL  
 Qty Reported: SHEEN  
 Qty Reported: -----  
 CAS No: Not reported  
 Source: BOAT  
 Incident: OTHER RELEASE >  
 Cleanup Type: ---  
 Referral: NO  
 Report Prep: Not reported  
 Notifier: PETTY OFC GRENIER/PROV  
 Notif Tel: Not reported  
 Days/Close: 1

Spill ID: S90-0703  
 Date Entered: Not reported  
 First Response: 19900925  
 Spill Time: Not reported  
 Report Time: 10:05AM  
 Mat Type: PETROLEUM  
 Contam Soil: Not reported  
 Other Impact: Not reported  
 Other Material: Not reported  
 Qty Actual: SHEEN  
 Qty Actual: -----  
 PCB Lev (ppm): -----  
 Other Source: Not reported  
 Other Incdnt: ALLEGED LEAK  
 Contractor: NOT USED  
 LUST Elig: NO  
 Category: Not reported

Facility ID: 0000  
 Staff Lead: PACKARD, R  
 Last Entered: 19900720  
 Spill Date: Not reported  
 Report Date: 19900717  
 Case Closed: YES  
 Virgin Waste: -----  
 Env Impact: Not reported  
 Material: OTHER MATERIAL -->  
 Qty Reported: 251-500  
 Qty Reported: GALLONS  
 CAS No: Not reported  
 Source: OTHER SOURCE >  
 Incident: OTHER RELEASE >  
 Cleanup Type: ---  
 Referral: NO  
 Report Prep: Not reported  
 Notifier: P.O. DECLEMENTE/USCG  
 Notif Tel: Not reported  
 Days/Close: 1

Spill ID: S90-0522  
 Date Entered: Not reported  
 First Response: 19900717  
 Spill Time: Not reported  
 Report Time: 08:36AM  
 Mat Type: NEITHER  
 Contam Soil: Not reported  
 Other Impact: Not reported  
 Other Material: MILKY WHITE SUBSTANCE  
 Qty Actual: UNKNOWN  
 Qty Actual: -----  
 PCB Lev (ppm): -----  
 Other Source: MILKY WHITE  
 Other Incdnt: FOAM ON WATER  
 Contractor: NOT USED  
 LUST Elig: NO  
 Category: Not reported

J54  
 NNW  
 1/2-1  
 0.744 mi.  
 3928 ft.

NEW BEDFORD HARBOR  
 ACUSHNET ESTUARY  
 NEW BEDFORD, MA 02740

SHWS S101046746  
 RELEASE N/A

Site 2 of 2 in cluster J

Relative:  
 Higher

SHWS:

Facility ID: 4-0000122  
 Release Town: NEW BEDFORD  
 Notification Date: 01/15/1987  
 Category: NONE  
 Associated ID: 4-0000122

Actual:  
 14 ft.

**Compliance Status:** Tier 1A, a release receiving a total score equal to or greater than 550. These sites/releases require a permit and the person undertaking response actions must do so under direct DEP supervision.  
 Status Date: 10/01/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD HARBOR (Continued)**

**S101046746**

Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: PCBS  
Quantity: Not reported

Location:  
Location Type: WETLANDS  
Location Type: WATERBODY

Source:  
Source Type: UNCONTAIN

Action:  
Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1987  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0000122  
Primary ID: 4-0000122  
Official City: NEW BEDFORD  
Notification: 01/15/1987  
Category: NONE  
Facility Status: TIER1A  
Status Date: 10/01/1993  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD HARBOR (Continued)**

**S101046746**

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1987  
Response Action Outcome: Not reported

Chemical:  
Chemical: PCBS  
Quantity: Not reported

Location:  
Location Type: WETLANDS  
Location Type: WATERBODY

Source:  
Source Type: UNCONTAIN

Action:  
Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/01/1993  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1987  
Response Action Outcome: Not reported

**K55  
NNW  
1/2-1  
0.769 mi.  
4060 ft.**

**FINICKY PET FOOD INC  
16 FRONT ST  
NEW BEDFORD, MA**

**Site 1 of 4 in cluster K**

**SHWS S107678061  
RELEASE N/A**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0019657  
Release Town: NEW BEDFORD  
Notification Date: 03/08/2006  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 05/04/2006  
Phase: Not reported  
Response Action Outcome Class: A1

**Actual:  
19 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FINICKY PET FOOD INC (Continued)**

**S107678061**

Oil Or Haz Material:	Hazardous Material
Chemical:	
Chemical:	ANHYDROUS AMMONIA
Quantity:	Not reported
Location:	
Location Type:	COMMERCIAL
Location Type:	INDUSTRIAL
Source:	
Source Type:	PIPE
Action:	
Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	03/06/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	05/04/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	05/04/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	04/04/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Stat:	REPORT
Action Date:	03/22/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	03/13/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	03/08/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release
Action Stat:	REPORT
Action Date:	03/08/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FINICKY PET FOOD INC (Continued)**

**S107678061**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**Release:**

Facility ID: 4-0019657  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/08/2006  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 05/04/2006  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

**Action:**

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 03/06/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 03/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FINICKY PET FOOD INC (Continued)**

**S107678061**

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: ANHYDROUS AMMONIA  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: INDUSTRIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/06/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FINICKY PET FOOD INC (Continued)**

**S107678061**

Action Date: 03/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 03/08/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**K56  
NNW  
1/2-1  
0.769 mi.  
4060 ft.**

**DELKEN CO  
16 FRONT ST  
NEW BEDFORD, MA 02740**

**Site 2 of 4 in cluster K**

**RCRA-CESQG 1000268640  
FINDS MAD108002494  
SHWS  
RELEASE  
DRYCLEANERS**

**Relative:  
Higher**

RCRA-CESQG:

Date form received by agency: 11/26/1986  
Facility name: DELKEN CO  
Facility address: 16 FRONT ST  
NEW BEDFORD, MA 02740

**Actual:  
19 ft.**

EPA ID: MAD108002494  
Mailing address: PO BOX M128  
NEW BEDFORD, MA 02744  
Contact: SHERMAN ELWIN  
Contact address: PO BOX M128  
NEW BEDFORD, MA 02744

Contact country: US  
Contact telephone: (508) 990-0289  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: DELKEN CO  
Owner/operator address: PO BOX M128  
NEW BEDFORD, MA 02744  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 12/08/1991  
Owner/Op end date: Not reported

Owner/operator name: KENNETH NANFELT  
Owner/operator address: PO BOX M128  
NEW BEDFORD, MA 02744  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/16/2004  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Facility Has Received Notices of Violations:

Regulation violated: SR - 340(1)(b)  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/12/1995  
Date achieved compliance: 01/29/1996  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/28/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 351(9)  
Area of violation: Generators - General  
Date violation determined: 12/12/1995  
Date achieved compliance: 01/29/1996  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/28/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 314(1)  
Area of violation: Generators - Manifest  
Date violation determined: 12/12/1995  
Date achieved compliance: 01/29/1996  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/28/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 253(5)(b)  
Area of violation: Generators - General  
Date violation determined: 12/12/1995  
Date achieved compliance: 01/29/1996  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/28/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 685(4)  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/12/1995  
Date achieved compliance: 01/29/1996  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/28/1995  
Enf. disposition status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 340(1)(i)(K)  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/12/1995  
Date achieved compliance: 01/29/1996  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/28/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 01/29/1996  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 12/12/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/29/1996  
Evaluation lead agency: State

Evaluation date: 12/12/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 01/29/1996  
Evaluation lead agency: State

Evaluation date: 12/12/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Manifest  
Date achieved compliance: 01/29/1996  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110003450140

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DELKEN CO (Continued)

1000268640

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SHWS:

Facility ID: 4-0014501  
Release Town: NEW BEDFORD  
Notification Date: 02/06/1999  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 04/06/1999  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Hazardous Material

Chemical:

Chemical: ANHYDROUS AMMONIA  
Quantity: 2 pounds

Location:

Location Type: COMMERCIAL  
Location Type: INDUSTRIAL

Source:

Source Type: PIPE

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/10/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0014501  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 02/06/1999  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 04/06/1999  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/10/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: ANHYDROUS AMMONIA  
Quantity: 2 pounds

Location:  
Location Type: COMMERCIAL  
Location Type: INDUSTRIAL

Source:  
Source Type: PIPE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/10/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 02/06/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELKEN CO (Continued)**

**1000268640**

Drycleaners:  
Facility ID: 9928  
Class Type Code: ERDCNA

**57**  
**NW**  
**1/2-1**  
**0.776 mi.**  
**4097 ft.**

**NBPD PARKING LOT**  
**25 SPRING ST**  
**NEW BEDFORD, MA**

**SHWS** **S103546682**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

SHWS:  
Facility ID: 4-0014305  
Release Town: NEW BEDFORD  
Notification Date: 11/03/1998  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 12/01/1998  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Hazardous Material

**Actual:**  
**26 ft.**

Chemical:  
Chemical: BENZO(K)FLUORANTHENE  
Quantity: 3.5 parts per million  
Chemical: LEAD  
Quantity: 1100 parts per million  
Chemical: BENZO[A]ANTHRACENE  
Quantity: 3.6 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/20/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/01/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/03/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/03/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NBPD PARKING LOT (Continued)**

**S103546682**

to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0014305  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/03/1998  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 12/01/1998  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/20/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/01/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/03/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/03/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical: BENZO(K)FLUORANTHENE  
Quantity: 3.5 parts per million  
Chemical: LEAD  
Quantity: 1100 parts per million  
Chemical: BENZO[A]ANTHRACENE  
Quantity: 3.6 parts per million

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/20/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NBPD PARKING LOT (Continued)**

**S103546682**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 12/01/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF

Action Stat: REPORT

Action Date: 11/03/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release

Action Stat: REPORT

Action Date: 11/03/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

58  
SSE  
1/2-1  
0.780 mi.  
4118 ft.

**MOTT STREET PARK  
99 CLEVELAND ST  
NEW BEDFORD, MA**

**SHWS S107405560  
RELEASE N/A**

**Relative:  
Equal**

SHWS:

Facility ID: 4-0019279

Release Town: NEW BEDFORD

Notification Date: 08/12/2005

Category: 120 DY

Associated ID: Not reported

**Compliance Status: Release Action Outcome**

Status Date: 08/12/2005

Phase: Not reported

Response Action Outcome Class: B1

Oil Or Haz Material: Hazardous Material

Chemical:

Chemical: POLYCHLORINATED BIPHENYL, N.O.S.

Quantity: 9.6 parts per million

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome

Action Stat: Level I - Technical Screen Audit

Action Date: 09/15/2005

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF

Action Stat: REPORT

Action Date: 08/12/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOTT STREET PARK (Continued)**

**S107405560**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/12/2005

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/12/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Facility ID: 4-0019279  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 08/12/2005  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 08/12/2005  
Phase: Not reported  
Rspsn Actn Outcome Class: B1  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 09/15/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/12/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/12/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/12/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:

Chemical: POLYCHLORINATED BIPHENYL, N.O.S.  
Quantity: 9.6 parts per million

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MOTT STREET PARK (Continued)**

**S107405560**

Location:  
 Location Type: Not reported

Source:  
 Source Type: Not reported

Action:  
 Action Type: Response Action Outcome  
 Action Stat: Level I - Technical Screen Audit  
 Action Date: 09/15/2005  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
 Action Stat: REPORT  
 Action Date: 08/12/2005  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 08/12/2005  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 08/12/2005  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

**L59**  
**WSW**  
**1/2-1**  
**0.781 mi.**  
**4125 ft.**

**PROPERTY**  
**486 SOUTH ORCHARD ST**  
**NEW BEDFORD, MA**  
**Site 1 of 2 in cluster L**

**SHWS** **S105811050**  
**RELEASE** **N/A**  
**INST CONTROL**

**Relative:**  
**Equal**

SHWS:  
 Facility ID: 4-0000467  
 Release Town: NEW BEDFORD  
 Notification Date: 01/15/1988  
 Category: NONE  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 04/12/2000  
 Phase: Not reported  
 Response Action Outcome Class: A3  
 Oil Or Haz Material: Oil

**Actual:**  
**0 ft.**

Chemical:  
 Chemical: GASOLINE  
 Quantity: Not reported  
 Chemical: PETROLEUM  
 Quantity: Not reported

Location:  
 Location Type: FORMER  
 Location Type: TANK FARM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Source:  
Source Type: Not reported

Action:  
Action Type: BWS10  
Action Stat: NOTREQ  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 06/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RTCLET  
Action Date: 06/13/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: INTLET  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: Written Approval of Plan  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: AFUPLN  
Action Date: 01/30/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: FOLREQ  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: NON  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/30/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/12/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 02/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 03/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PROPERTY (Continued)

S105811050

been implemented.

Action Type: Tier Classification  
Action Stat: DEPDIS  
Action Date: 03/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: BWSC05  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/26/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:  
Facility ID: 4-0000467  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/15/1988  
Category: NONE  
Facility Status: Response Action Outcome  
Status Date: 04/12/2000  
Phase: Not reported  
Rspns Actn Outcome Class: A3  
Oil / Haz Material Type: Oil

Action:  
Action Type: BWS10  
Action Stat: NOTREQ  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 06/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RTCLET  
Action Date: 06/13/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: INTLET  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: Written Approval of Plan  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Action Stat: AFUPLN  
Action Date: 01/30/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: FOLREQ  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: NON  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/30/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Action Date: 04/12/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 02/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 03/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: DEPDIS  
Action Date: 03/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: BWSC05  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/29/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/26/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:  
Chemical: GASOLINE  
Quantity: Not reported  
Chemical: PETROLEUM  
Quantity: Not reported

Location:  
Location Type: FORMER  
Location Type: TANK FARM

Source:  
Source Type: Not reported

Action:  
Action Type: BWS10  
Action Stat: NOTREQ  
Action Date: Not reported  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 06/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RTCLET  
Action Date: 06/13/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PROPERTY (Continued)

S105811050

been implemented.

Action Type: AUDCOM  
Action Stat: INTLET  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: Written Approval of Plan  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: AFUPLN  
Action Date: 01/30/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: FOLREQ  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: NON  
Action Date: 01/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/30/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/12/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 02/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 03/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: DEPDIS  
Action Date: 03/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S105811050**

Action Stat: BWSC05  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 1B Classification  
Action Date: 08/29/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/26/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

**INST CONTROL:**

Release Tracking Number: 4-0000467  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 02/25/2000  
Response Action Outcome: A3

Release Tracking Number: 4-0000467  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 01/04/2002  
Response Action Outcome: A3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

60  
South  
1/2-1  
0.783 mi.  
4137 ft.

REAR OF PROPERTY  
89 WEST RODNEY FRENCH BLVD  
NEW BEDFORD, MA 02744

SHWS S104232365  
RELEASE N/A

Relative:  
Higher

SHWS:

Facility ID: 4-0010081  
Release Town: NEW BEDFORD  
Notification Date: 11/09/1993  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 01/28/1994  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Actual:  
1 ft.

Chemical:

Chemical: DIESEL FUEL  
Quantity: 100 gallons

Location:

Location Type: INDUSTRIAL

Source:

Source Type: PIPE

Action:

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/09/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REAR OF PROPERTY (Continued)**

**S104232365**

Action Date: 11/09/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0010081  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/09/1993  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 01/28/1994  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/28/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/09/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/09/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical: DIESEL FUEL  
Quantity: 100 gallons

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**REAR OF PROPERTY (Continued)**

**S104232365**

Location:  
 Location Type: INDUSTRIAL

Source:  
 Source Type: PIPE

Action:  
 Action Type: Immediate Response  
 Action Stat: Completion Statement Received  
 Action Date: 01/28/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
 Action Stat: Written Plan Received  
 Action Date: 01/28/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Stat: REPORT  
 Action Date: 01/28/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 01/28/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
 Action Stat: FOLOFF  
 Action Date: 11/09/1993  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 11/09/1993  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**L61**  
**WSW**  
**1/2-1**  
**0.793 mi.**  
**4185 ft.**

**GOODYEAR TIRE & RUBBER**  
**545 ORCHARD ST**  
**NEW BEDFORD, MA**  
**Site 2 of 2 in cluster L**

**LUST** **S101035644**  
**SPILLS** **N/A**  
**RELEASE**  
**INST CONTROL**

**Relative:**  
**Equal**

**LUST:**  
 Facility:  
 Facility ID: 4-0000688  
**Facility Status: Release Action Outcome**  
 Status Date: 04/19/2000  
 Source Type: UST  
 Release Town: NEW BEDFORD  
 Notification Date: 04/15/1989

**Actual:**  
**0 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Category: NONE  
Associated ID: Not reported  
Phase: Not reported  
Rsps Actn Outcome Class: A3  
Oil Or Haz Material: Oil

Chemical:  
Chemical: WATER  
Quantity: Not reported

Location:  
Location Type: MANUFACT

Source:  
Source Type: UST

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Action, Status, or AUL Terminated  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 03/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: ACO  
Action Date: 01/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 03/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 03/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 03/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 03/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 02/09/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 02/09/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 11/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/11/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Stat: Level I - Technical Screen Audit  
Action Date: 09/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 07/19/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 01/08/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: NON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Date: 09/20/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 06/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 04/05/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/24/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/24/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 10/23/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 09/18/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1989

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

MA Spills:

Facility ID:	4-0688	Spill ID:	S90-0033
Staff Lead:	MORAN, M	Date Entered:	Not reported
Last Entered:	19900126	First Response:	19900112
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19900110	Report Time:	11:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	OIL/SOLVENTS
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	H HUMPHREYS		
Notif Tel:	Not reported		
Days/Close:	1		

Release:

Facility ID:	4-0000688
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	04/15/1989
Category:	NONE
Facility Status:	Response Action Outcome
Status Date:	04/19/2000
Phase:	Not reported
Rspns Actn Outcome Class:	A3
Oil / Haz Material Type:	Oil

Action:

Action Type:	AUDCOM
Action Stat:	Audit Follow-up Completion Statement Received
Action Date:	03/29/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type:	Activity and Use Limitation
Action Stat:	Transmittal Received
Action Date:	03/29/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type:	Activity and Use Limitation
Action Stat:	Action, Status, or AUL Terminated
Action Date:	03/29/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 03/29/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 03/20/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: ACO  
Action Date: 01/24/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 03/31/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 03/31/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 03/03/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 03/03/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 02/09/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 02/09/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 11/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/11/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 07/19/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 01/08/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: NON  
Action Date: 09/20/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 06/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 04/05/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/24/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/24/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 10/23/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 09/18/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:  
Chemical: WATER  
Quantity: Not reported

Location:  
Location Type: MANUFACT

Source:  
Source Type: UST

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Action, Status, or AUL Terminated  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 03/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 03/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: ACO  
Action Date: 01/24/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 03/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 03/31/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 03/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 03/03/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 02/09/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 02/09/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 11/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/11/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/19/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Stat: Tier 2 Classification  
Action Date: 11/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 07/19/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 01/08/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: C&E  
Action Stat: NON  
Action Date: 09/20/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/12/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 06/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 04/05/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/24/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Action Date: 11/24/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 10/23/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 09/18/1992  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

**INST CONTROL:**

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 04/19/2000  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 03/31/2005  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 03/03/2005  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: LEGNOT  
Action Date: 03/20/2006  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 10/11/2001  
Response Action Outcome: A3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GOODYEAR TIRE & RUBBER (Continued)**

**S101035644**

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 03/29/2006  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 02/09/2005  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: TERMIN  
Action Date: 03/29/2006  
Response Action Outcome: A3

Release Tracking Number: 4-0000688  
Action Type: AUL  
Action Stat: CONFRM  
Action Date: 03/29/2006  
Response Action Outcome: A3

**K62**  
**NNW**  
**1/2-1**  
**0.800 mi.**  
**4224 ft.**

**LEONARDS WHARF**  
**84 FRONT ST**  
**NEW BEDFORD, MA**

**SHWS** **S106132443**  
**RELEASE** **N/A**

**Site 3 of 4 in cluster K**

**Relative:**  
**Higher**

**SHWS:**  
Facility ID: 4-0018092  
Release Town: NEW BEDFORD  
Notification Date: 10/27/2003  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 09/20/2004  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

**Chemical:**  
Chemical: DIESEL FUEL  
Quantity: 1000 gallons

**Location:**  
Location Type: WATERBODY

**Source:**  
Source Type: Not reported

**Action:**  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEONARDS WHARF (Continued)**

**S106132443**

Action Stat: Fee Received  
Action Date: 09/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 09/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/31/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/29/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEONARDS WHARF (Continued)**

**S106132443**

reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0018092  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/27/2003  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 09/20/2004  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 09/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEONARDS WHARF (Continued)**

**S106132443**

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 09/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/31/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/29/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/27/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEONARDS WHARF (Continued)**

**S106132443**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 1000 gallons

Location:  
Location Type: WATERBODY

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 09/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 09/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEONARDS WHARF (Continued)**

**S106132443**

Action Date: 09/20/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/24/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/31/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/29/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEONARDS WHARF (Continued)**

**S106132443**

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/27/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**K63**  
**NNW**  
**1/2-1**  
**0.817 mi.**  
**4312 ft.**

**NO LOCATION AID**  
**122-132 FRONT ST**  
**NEW BEDFORD, MA**

**SHWS** **S105125201**  
**RELEASE** **N/A**

**Site 4 of 4 in cluster K**

**Relative:**  
**Higher**

SHWS:  
Facility ID: 4-0016301  
Release Town: NEW BEDFORD  
Notification Date: 06/12/2001  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: URAM**  
Status Date: 06/21/2001  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

**Actual:**  
**27 ft.**

Chemical:  
Chemical: PETROLEUM  
Quantity: Not reported

Location:  
Location Type: ROADWAY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Utility-related Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 09/28/2001  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 06/21/2001  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Oral Approval of Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105125201**

Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0016301  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 06/12/2001  
Category: 120 DY  
Facility Status: URAM  
Status Date: 06/21/2001  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: Utility-related Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 09/28/2001  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 06/21/2001  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Oral Approval of Plan  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

Chemical:

Chemical: PETROLEUM  
Quantity: Not reported

Location:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105125201**

Location Type: ROADWAY  
Source:  
Source Type: UNKNOWN  
Action:  
Action Type: Utility-related Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 09/28/2001  
Response Action Outcome: Not reported  
  
Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 06/21/2001  
Response Action Outcome: Not reported  
  
Action Type: Utility-related Abatement Measure  
Action Stat: Oral Approval of Plan  
Action Date: 06/12/2001  
Response Action Outcome: Not reported  
  
Action Type: Utility-related Abatement Measure  
Action Stat: Notification of URAM Received  
Action Date: 06/12/2001  
Response Action Outcome: Not reported  
  
Action Type: Release  
Action Stat: REPORT  
Action Date: 06/12/2001  
Response Action Outcome: Not reported

**M64**  
**SW**  
**1/2-1**  
**0.818 mi.**  
**4317 ft.**

**MERIT GAS STATION**  
**1253 COVE RD**  
**NEW BEDFORD, MA**

**Site 1 of 4 in cluster M**

**SHWS** **S104232408**  
**RELEASE** **N/A**

**Relative:**  
**Equal**

SHWS:  
Facility ID: 4-0012790  
Release Town: NEW BEDFORD  
Notification Date: 01/17/1997  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 04/08/1997  
Phase: Not reported  
Response Action Outcome Class: B1  
Oil Or Haz Material: Oil

**Actual:**  
**0 ft.**

Chemical:  
Chemical: GASOLINE  
Quantity: 400 gallons  
Location:  
Location Type: COMMERCIAL  
Source:  
Source Type: PIPE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MERIT GAS STATION (Continued)**

**S104232408**

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/08/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/10/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/27/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/22/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/17/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 01/17/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Facility ID: 4-0012790  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/17/1997  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 04/08/1997  
Phase: Not reported  
Rspns Actn Outcome Class: B1  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/08/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MERIT GAS STATION (Continued)**

**S104232408**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/10/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/27/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/22/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/17/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 01/17/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:  
Chemical: GASOLINE  
Quantity: 400 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/08/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/10/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/27/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MERIT GAS STATION (Continued)**

**S104232408**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/22/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/17/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 01/17/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

**M65 HESS CORP**  
**SW 1253 COVE RD**  
**1/2-1 NEW BEDFORD, MA 02744**  
**0.818 mi.**  
**4317 ft. Site 2 of 4 in cluster M**

**RCRA-CESQG 1000263695**  
**FINDS MAD982197717**  
**SHWS**  
**LUST**  
**RELEASE**

**Relative:**  
**Equal**

RCRA-CESQG:

Date form received by agency: 03/07/2002  
Facility name: HESS CORPORATION 21504  
Facility address: 1253 COVE RD  
NEW BEDFORD, MA 02744  
EPA ID: MAD982197717  
Mailing address: 1 HESS PLAZA  
WOODBIDGE, NJ 070950000  
Contact: PAUL MARINO  
Contact address: 1 HESS PLAZA  
WOODBIDGE, NJ 07095  
Contact country: US  
Contact telephone: (732) 750-7105  
Contact email: Not reported  
EPA Region: 01  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Actual:**  
**0 ft.**

Owner/Operator Summary:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Owner/operator name: AMERADA HESS CORP  
Owner/operator address: 1 HESS PLAZA  
WOODBRIDGE, NJ 07095  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 04/23/2001  
Owner/Op end date: Not reported

Owner/operator name: AMERADA HESS  
Owner/operator address: 1 HESS PLAZA  
WOODBRIDGE, NJ 07095  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1900  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/17/1987  
Facility name: HESS CORPORATION 21504  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Registry ID: 110003478362

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

SHWS:

Facility ID: 4-0018832  
Release Town: NEW BEDFORD  
Notification Date: 01/12/2005  
Category: 72 HR  
Associated ID: 4-0001096  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 01/12/2006  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

Chemical:

Chemical: MTBE  
Quantity: 153000 parts per billion

Location:

Location Type: COMMERCIAL

Source:

Source Type: BUCKET

Action:

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 04/10/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 07/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 07/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/09/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 02/22/2005  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/22/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/20/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/14/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/12/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/12/2005  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type:	Tier Classification
Action Stat:	PERTRN
Action Date:	08/21/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	01/12/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	03/03/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	12/12/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 1A Classification
Action Date:	12/12/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	12/12/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 1A Classification
Action Date:	08/17/1994
Response Action Outcome:	Not reported

LUST:

Facility:

Facility ID:	4-0001096
<b>Facility Status:</b>	<b>Remedy Operation Status</b>
Status Date:	01/03/2008
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	05/15/1991
Category:	NONE
Associated ID:	4-0001096
Phase:	PHASE V
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	PETROLEUM
Quantity:	Not reported
Chemical:	GASOLINE
Quantity:	Not reported

Location:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Location Type: GASSTATION  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: BWS30  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: ACTIVE  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 01/11/2010  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/11/2010  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/21/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/30/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/30/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 06/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 02/02/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/08/2009  
Response Action Outcome: Not reported

Action Type: Phase V

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Stat: ROSSTR  
Action Date: 01/08/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 07/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 07/03/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 04/10/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 01/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/13/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 06/13/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINI  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/22/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/22/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/10/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/05/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/16/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/16/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/30/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/16/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/01/2002  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/10/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type:	Tier Classification
Action Stat:	PERTRN
Action Date:	08/21/2001
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	07/25/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	01/12/2001
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	09/11/2000
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	03/06/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	03/03/2000
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Completion Statement Received
Action Date:	12/31/1999
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	As-Built Construction report Received
Action Date:	12/31/1999
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	APPT1A
Action Date:	03/24/1999
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	03/17/1999
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Written Plan Received
Action Date:	10/20/1998
Response Action Outcome:	Not reported
Action Type:	Phase II
Action Stat:	APPT1A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 07/23/1998  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/17/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/17/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 02/06/1997  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/01/1996  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 09/13/1995  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 07/10/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: BWSC04  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 11/30/1994  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 08/17/1994  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 11/19/1992  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 09/28/1992  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 09/28/1992  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/24/1991  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/15/1991  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 05/15/1991  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0001096  
Primary ID: 4-0001096  
Official City: NEW BEDFORD  
Notification: 05/15/1991  
Category: NONE  
Facility Status: REMOPS  
Status Date: 01/03/2008  
Phase: PHASE V  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: BWS30  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: ACTIVE  
Action Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 01/11/2010  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/11/2010  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/21/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/30/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/30/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 06/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 02/02/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/08/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 01/08/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 07/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 07/03/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type:	Tier Classification
Action Stat:	LSPMP
Action Date:	04/10/2008
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	01/03/2008
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	01/03/2008
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	06/13/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	06/13/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LSPMP
Action Date:	01/03/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINI
Action Date:	01/03/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	01/03/2007
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	ROSSTR
Action Date:	06/22/2006
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	06/22/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LNKVIC
Action Date:	01/12/2006
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 01/10/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/05/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/16/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/16/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/30/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/16/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/01/2002  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/10/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PERTRN  
Action Date: 08/21/2001  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/25/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 01/12/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/11/2000  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/06/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/03/2000  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/31/1999  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: As-Built Construction report Received  
Action Date: 12/31/1999  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: APPT1A  
Action Date: 03/24/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/17/1999  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 10/20/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 07/23/1998  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/17/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/17/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 02/06/1997  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/01/1996  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 09/13/1995  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 07/10/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: BWSC04  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 11/30/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 08/17/1994  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 11/19/1992  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 09/28/1992  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 09/28/1992  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/24/1991  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/15/1991  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 05/15/1991  
Response Action Outcome: Not reported

Chemical:  
Chemical: PETROLEUM  
Quantity: Not reported  
Chemical: GASOLINE  
Quantity: Not reported

Location:  
Location Type: GASSTATION  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: BWS30  
Action Stat: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Stat: ACTIVE  
Action Date: Not reported  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 01/11/2010  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/11/2010  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/21/2009  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/30/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/30/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 06/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 02/02/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/08/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 01/08/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 07/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 07/03/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 04/10/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 01/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 01/03/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 06/13/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 06/13/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINI  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/22/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/22/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/10/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 01/05/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 06/16/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	01/16/2004
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	06/30/2003
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	01/16/2003
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	07/01/2002
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	12/10/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PERTRN
Action Date:	08/21/2001
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	07/25/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	01/12/2001
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	09/11/2000
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	03/06/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	03/03/2000
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 12/31/1999  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: As-Built Construction report Received  
Action Date: 12/31/1999  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: APPT1A  
Action Date: 03/24/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/17/1999  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 10/20/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 07/23/1998  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/17/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/17/1998  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 02/06/1997  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/01/1996  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: APPT1A  
Action Date: 09/13/1995  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 07/10/1995  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: BWSC04  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 11/30/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 08/17/1994  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 11/19/1992  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 09/28/1992  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 09/28/1992  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/24/1991  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/15/1991  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 05/15/1991  
Response Action Outcome: Not reported

Facility ID: 4-0018832  
Primary ID: 4-0001096  
Official City: NEW BEDFORD  
Notification: 01/12/2005  
Category: 72 HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 01/12/2006  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 04/10/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 07/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 07/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/09/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 02/22/2005  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/22/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/20/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/14/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/12/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/12/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PERTRN  
Action Date: 08/21/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 01/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/03/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 08/17/1994  
Response Action Outcome: Not reported

Chemical:  
Chemical: MTBE  
Quantity: 153000 parts per billion

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: BUCKET

Action:  
Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 04/10/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LSPMP  
Action Date: 01/03/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Date: 08/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 07/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 07/28/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 05/09/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 02/22/2005  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/22/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/20/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/14/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/12/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/12/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PERTRN  
Action Date: 08/21/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 01/12/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS CORP (Continued)**

**1000263695**

Action Type: Tier Classification  
Action Stat: PEREXT  
Action Date: 03/03/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: PEREFF  
Action Date: 12/12/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 1A Classification  
Action Date: 08/17/1994  
Response Action Outcome: Not reported

**M66**  
**SW**  
**1/2-1**  
**0.818 mi.**  
**4317 ft.**

**NO LOCATION AID**  
**1253 COVE RD**  
**NEW BEDFORD, MA**  
**Site 3 of 4 in cluster M**

**SHWS** **S104232407**  
**LUST** **N/A**  
**RELEASE**

**Relative:**  
**Equal**

SHWS:  
Facility ID: 4-0012638  
Release Town: NEW BEDFORD  
Notification Date: 11/13/1996  
Category: 72 HR  
Associated ID: Not reported  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 01/17/1997  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: GASOLINE  
Quantity: Not reported

Location:  
Location Type: Not reported

Source:  
Source Type: UST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/17/1997  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/21/1996  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/18/1996  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Facility ID: 4-0012823  
Release Town: NEW BEDFORD  
Notification Date: 02/04/1997  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 04/08/1997  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

Chemical:  
Chemical: KEROSENE  
Quantity: 100 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 04/08/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1997  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/11/1997  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

LUST:

Facility:

Facility ID: 4-0012823  
**Facility Status: Response Action Outcome Not Required**  
Status Date: 04/08/1997  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 02/04/1997  
Category: TWO HR  
Associated ID: Not reported  
Phase: Not reported  
Rspsn Actn Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

Chemical:

Chemical: KEROSENE  
Quantity: 100 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST  
Source Type: PIPE

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 04/08/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1997  
Response Action Outcome: Not reported

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Action Stat: REPORT  
Action Date: 02/11/1997  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Facility:

Facility ID: 4-0012638  
**Facility Status: Response Action Outcome Not Required**  
Status Date: 01/17/1997  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 11/13/1996  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:

Chemical: GASOLINE  
Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: UST  
Source Type: PIPE

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/17/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/21/1996  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/18/1996  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

**Release:**

Facility ID: 4-0012638  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/13/1996  
Category: 72 HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 01/17/1997  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

**Action:**

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/17/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/21/1996  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/18/1996  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 11/13/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Response Action Outcome: Not reported

Chemical:  
Chemical: GASOLINE  
Quantity: Not reported

Location:  
Location Type: Not reported

Source:  
Source Type: UST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 01/17/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/21/1996  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/18/1996  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 11/13/1996  
Response Action Outcome: Not reported

Facility ID: 4-0012823  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 02/04/1997  
Category: TWO HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 04/08/1997  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Action Date: 04/08/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1997  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/11/1997  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Chemical:  
Chemical: KEROSENE  
Quantity: 100 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 04/08/1997  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 02/12/1997  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/11/1997  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/04/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232407**

Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 02/04/1997  
Response Action Outcome: Not reported

**M67 HESS 21504**  
**SW 1253 COVE RD**  
**1/2-1 NEW BEDFORD, MA 02744**  
**0.818 mi.**  
**4317 ft. Site 4 of 4 in cluster M**

**LUST U002007815**  
**UST N/A**  
**RELEASE**  
**FINANCIAL ASSURANCE**

**Relative:**  
**Equal**

LUST:

**Actual:**  
**0 ft.**

Facility:

Facility ID: 4-0022267  
**Facility Status: Release Action Outcome**  
Status Date: 01/05/2010  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 10/30/2009  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil and Hazardous Material

Chemical:

Chemical: KEROSENE  
Quantity: 5 gallons  
Chemical: GASOLINE  
Quantity: 5 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/13/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/05/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS 21504 (Continued)**

**U002007815**

Action Stat: ISSUED  
Action Date: 11/05/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/30/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

UST:

Facility ID: 3478

Facility:

Owner Id: 3055  
Owner: HESS CORPORATION  
Owner Address: 1 HESS PLAZA  
Owner City,St,Zip: WOODBRIDGE, NJ 07095  
Telephone: (732) 750-6220  
Description: Gas Station  
Fire Dept. ID: 5201  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Tank ID: 1  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000  
Contents: Gasoline

Tank ID: 10  
**Tank Status:** **In Use**  
Tank Useage: Other  
Tank Material: Composite  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: 237513  
Aboveground: No  
Capacity: 10000  
Contents: Kerosene

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS 21504 (Continued)**

**U002007815**

Tank ID: 11  
**Tank Status:** In Use  
Tank Useage: Other  
Tank Material: Composite  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: 237510  
Aboveground: No  
Capacity: 550  
Contents: Other

Tank ID: 2  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000  
Contents: Gasoline

Tank ID: 3  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000  
Contents: Gasoline

Tank ID: 4  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS 21504 (Continued)**

**U002007815**

Contents: Gasoline

Tank ID: 5  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 500  
Contents: Diesel

Tank ID: 6  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 1000  
Contents: Not reported

Tank ID: 7  
**Tank Status:** **In Use**  
Tank Useage: MV  
Tank Material: Composite  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: 237511  
Aboveground: No  
Capacity: 10000  
Contents: Gasoline

Tank ID: 8  
**Tank Status:** **In Use**  
Tank Useage: MV  
Tank Material: Composite  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS 21504 (Continued)**

**U002007815**

Serial Number: 237508  
Aboveground: No  
Capacity: 10000  
Contents: Gasoline

Tank ID: 9  
**Tank Status: In Use**  
Tank Useage: MV  
Tank Material: Composite  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: 237512  
Aboveground: No  
Capacity: 10000  
Contents: Gasoline

**Release:**

Facility ID: 4-0022267  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/30/2009  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 01/05/2010  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil and Hazardous Material

**Action:**

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/13/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/05/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/05/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/30/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HESS 21504 (Continued)**

**U002007815**

Chemical:  
 Chemical: KEROSENE  
 Quantity: 5 gallons  
 Chemical: GASOLINE  
 Quantity: 5 gallons

Location:  
 Location Type: COMMERCIAL

Source:  
 Source Type: UST

Action:  
 Action Type: Response Action Outcome  
 Action Stat: Level I - Technical Screen Audit  
 Action Date: 01/13/2010  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 01/05/2010  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
 Action Stat: ISSUED  
 Action Date: 11/05/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 10/30/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

FINASS2:  
 Facility Id: 3478  
 Description: Gas Station  
 Work Phone: (732) 750-6220  
 Financial Resp: Self Insured, Normal

**N68  
 NW  
 1/2-1  
 0.827 mi.  
 4367 ft.**

**PLEASANT ST  
 66 SPRING ST  
 NEW BEDFORD, MA 02740  
 Site 1 of 3 in cluster N**

**SHWS S104232404  
 RELEASE N/A  
 INST CONTROL**

**Relative:  
 Higher**

SHWS:  
 Facility ID: 4-0012534  
 Release Town: NEW BEDFORD  
 Notification Date: 10/03/1996  
 Category: 120 DY  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 10/30/1996

**Actual:  
 55 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLEASANT ST (Continued)**

**S104232404**

Phase: Not reported  
Response Action Outcome Class: B2  
Oil Or Haz Material: Oil and Hazardous Material

Chemical:  
Chemical: NAPHTHALENE  
Quantity: 5.8 parts per million  
Chemical: TPH  
Quantity: 11000 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: Not reported

Action:  
Action Type: Activity and Use Limitation  
Action Stat: NAFNVD  
Action Date: 07/26/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 07/26/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/14/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: C&E  
Action Stat: NAFNVD  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: C&E  
Action Stat: FOLCD  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLEASANT ST (Continued)**

**S104232404**

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 05/06/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/05/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/30/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 10/30/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/03/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/03/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:  
Facility ID: 4-0012534  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/03/1996  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 10/30/1996  
Phase: Not reported  
Rspns Actn Outcome Class: B2  
Oil / Haz Material Type: Oil and Hazardous Material

Action:  
Action Type: Activity and Use Limitation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLEASANT ST (Continued)**

**S104232404**

Action Stat: NAFNVD  
Action Date: 07/26/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 07/26/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/14/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: C&E  
Action Stat: NAFNVD  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: C&E  
Action Stat: FOLCD  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 05/06/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/05/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLEASANT ST (Continued)**

**S104232404**

Action Date: 10/30/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 10/30/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/03/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/03/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Chemical:  
Chemical: NAPHTHALENE  
Quantity: 5.8 parts per million  
Chemical: TPH  
Quantity: 11000 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: Not reported

Action:  
Action Type: Activity and Use Limitation  
Action Stat: NAFNVD  
Action Date: 07/26/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 07/26/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/14/2006  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PLEASANT ST (Continued)

S104232404

AULs that have been implemented.

Action Type: C&E  
Action Stat: NAFNVD  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: C&E  
Action Stat: FOLCD  
Action Date: 08/07/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 05/06/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/05/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/30/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 10/30/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/03/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLEASANT ST (Continued)**

**S104232404**

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/03/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

**INST CONTROL:**

Release Tracking Number: 4-0012534  
Action Type: AUL  
Action Stat: NAFNVD  
Action Date: 07/26/2006  
Response Action Outcome: B2

Release Tracking Number: 4-0012534  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 10/30/1996  
Response Action Outcome: B2

Release Tracking Number: 4-0012534  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 07/26/2006  
Response Action Outcome: B2

**O69**  
**ENE**  
**1/2-1**  
**0.829 mi.**  
**4377 ft.**

**JUDGE RESIDENCE**  
**41 FORT ST**  
**FAIRHAVEN, MA 02719**  
**Site 1 of 4 in cluster O**

**LAST** **S102088578**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

**LAST:**  
Facility ID: 4-0011761  
Source Type: AST  
Release Town: FAIRHAVEN  
Notification Date: 11/06/1995  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**  
Status Date: 08/14/2002  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

**Actual:**  
**12 ft.**

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 25 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JUDGE RESIDENCE (Continued)**

**S102088578**

Action Date: 04/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 08/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 08/16/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/23/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/15/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/07/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/07/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JUDGE RESIDENCE (Continued)**

**S102088578**

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0011761  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 11/06/1995  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 08/14/2002  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 04/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 08/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 08/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 08/16/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JUDGE RESIDENCE (Continued)**

**S102088578**

Action Stat: REPORT  
Action Date: 01/23/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/15/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/07/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/07/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 25 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 04/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 08/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JUDGE RESIDENCE (Continued)**

**S102088578**

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 08/16/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 08/14/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/23/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/15/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 11/07/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/07/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

P70  
NNW  
1/2-1  
0.829 mi.  
4378 ft.

**WATERWAY**  
**PIER 3**  
**NEW BEDFORD, MA 02740**

Site 1 of 4 in cluster P

**SHWS** S101044937  
**RELEASE** N/A  
**SPILLS**

Relative:  
Equal

SHWS:

Facility ID: 4-0017482  
Release Town: NEW BEDFORD  
Notification Date: 11/14/2002  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 11/14/2002  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Actual:  
0 ft.

Chemical:

Chemical: #4 FUEL OIL  
Quantity: Not reported

Location:

Location Type: WATERBODY

Source:

Source Type: UNKNOWN

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0017482  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/14/2002  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 11/14/2002  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 11/14/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WATERWAY (Continued)**

**S101044937**

Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Chemical:  
Chemical: #4 FUEL OIL  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/14/2002  
Response Action Outcome: Not reported

**MA Spills:**

Facility ID:	0000	Spill ID:	S92-0875
Staff Lead:	KEARNS, R	Date Entered:	Not reported
Last Entered:	19921208	First Response:	19921202
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	-----	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	OIL SHEEN
Qty Reported:	SHEEN	Qty Actual:	SHEEN
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	-----	Other Source:	Not reported
Incident:	-----	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	LT BURKE/USCG		

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WATERWAY (Continued)**

**S101044937**

Notif Tel: Not reported  
Days/Close: 1

**P71  
NNW  
1/2-1  
0.829 mi.  
4378 ft.**

**SEA FUELS  
PIER 3  
NEW BEDFORD, MA  
Site 2 of 4 in cluster P**

**LAST  
RELEASE S103812672  
N/A**

**Relative:  
Equal**

**LAST:**  
Facility ID: 4-0014630  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 03/30/1999  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**  
Status Date: 03/29/2000  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

**Actual:  
0 ft.**

**Chemical:**  
Chemical: FUEL OIL  
Quantity: 200 gallons

**Location:**  
Location Type: COMMERCIAL

**Source:**  
Source Type: AST

**Action:**  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 03/31/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/07/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/30/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SEA FUELS (Continued)**

**S103812672**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/30/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/30/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0014630  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/30/1999  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 03/29/2000  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 03/31/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/07/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SEA FUELS (Continued)

S103812672

reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: FUEL OIL  
Quantity: 200 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 03/31/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 03/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/07/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/30/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SEA FUELS (Continued)**

**S103812672**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**P72  
NNW  
1/2-1  
0.829 mi.  
4378 ft.**

**NEW BEDFORD HARBOR  
PIER 3  
NEW BEDFORD, MA  
Site 3 of 4 in cluster P**

**SHWS S105125157  
RELEASE N/A**

**Relative:  
Equal**

SHWS:  
Facility ID: 4-0016171  
Release Town: NEW BEDFORD  
Notification Date: 04/06/2001  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 04/06/2001  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

**Actual:  
0 ft.**

Chemical:  
Chemical: OILY SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0016171  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/06/2001  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 04/06/2001  
Phase: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW BEDFORD HARBOR (Continued)**

**S105125157**

Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Chemical:  
Chemical: OILY SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

**P73**  
**NNW**  
**1/2-1**  
**0.829 mi.**  
**4378 ft.**

**CRYSTAL ICE**  
**PIER 3**  
**NEW BEDFORD, MA**  
**Site 4 of 4 in cluster P**

**SHWS** **S105125167**  
**RELEASE** **N/A**

**Relative:**  
**Equal**

**Actual:**  
**0 ft.**

SHWS:  
Facility ID: 4-0016207  
Release Town: NEW BEDFORD  
Notification Date: 04/19/2001  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 04/19/2001  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: OILY SHEEN  
Quantity: 40 gallons

Location:  
Location Type: WATERBODY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CRYSTAL ICE (Continued)**

**S105125167**

Source:

Source Type: BOAT

Action:

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/19/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 04/19/2001  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0016207  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/19/2001  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 04/19/2001  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/19/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 04/19/2001  
Response Action Outcome: Not reported

Chemical:

Chemical: OILY SHEEN  
Quantity: 40 gallons

Location:

Location Type: WATERBODY

Source:

Source Type: BOAT

Action:

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/19/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 04/19/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

74  
NW  
1/2-1  
0.835 mi.  
4411 ft.

INTER-CHURCH COUNCIL GREATER NEW BEDFORD  
412 COUNTY ST  
NEW BEDFORD, MA 02740

SHWS S108858908  
RELEASE N/A

Relative:  
Higher

SHWS:  
Facility ID: 4-0020730  
Release Town: NEW BEDFORD  
Notification Date: 08/20/2007  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 12/12/2007  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil and Hazardous Material

Actual:  
81 ft.

Chemical:  
Chemical: PHENANTHRENE  
Quantity: .073 milligrams per liter  
Chemical: 2-METHYLNAPHTHALENE  
Quantity: 12 milligrams per kilogram  
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 39 milligrams per liter  
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 1100 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/22/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/27/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTER-CHURCH COUNCIL GREATER NEW BEDFORD (Continued)**

**S108858908**

Action Date: 08/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Release:**

Facility ID: 4-0020730  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 08/20/2007  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 12/12/2007  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil and Hazardous Material

**Action:**

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/22/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/27/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTER-CHURCH COUNCIL GREATER NEW BEDFORD (Continued)**

**S108858908**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/24/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/20/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/20/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/20/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical: PHENANTHRENE  
Quantity: .073 milligrams per liter  
Chemical: 2-METHYLNAPHTHALENE  
Quantity: 12 milligrams per kilogram  
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 39 milligrams per liter  
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 1100 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/22/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INTER-CHURCH COUNCIL GREATER NEW BEDFORD (Continued)**

**S108858908**

Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/27/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/20/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**O75** **FV LEGACY**  
**ENE** **50 FORT ST**  
**1/2-1** **FAIRHAVEN, MA 02719**  
**0.838 mi.**  
**4422 ft.** **Site 2 of 4 in cluster O**

**SHWS** **1004288994**  
**RELEASE** **N/A**

**Relative:** SHWS:  
**Higher** Facility ID: 4-0016541  
Release Town: FAIRHAVEN  
**Actual:** Notification Date: 09/03/2001  
**15 ft.** Category: TWO HR  
Associated ID: Not reported  
**Compliance Status:** **Release Action Outcome**  
Status Date: 07/10/2002  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: DIESEL FUEL  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FV LEGACY (Continued)**

**1004288994**

Location Type: COMMERCIAL

Source:  
Source Type: BOAT

Action:  
Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/15/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 07/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FV LEGACY (Continued)**

**1004288994**

to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0016541  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 09/03/2001  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 07/10/2002  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/15/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 07/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FV LEGACY (Continued)**

**1004288994**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: DIESEL FUEL  
Quantity: Not reported

Location:  
Location Type: WATERBODY  
Location Type: COMMERCIAL

Source:  
Source Type: BOAT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FV LEGACY (Continued)**

**1004288994**

Action:

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 07/15/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 07/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 03/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FV LEGACY (Continued)**

**1004288994**

Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**O76**  
**ENE**  
**1/2-1**  
**0.838 mi.**  
**4422 ft.**

**FAIRHAVEN SHIPYARD & MARINA INC**  
**50 FORT ST**  
**FAIRHAVEN, MA 02719**  
**Site 3 of 4 in cluster O**

**SHWS** **U004014106**  
**UST** **N/A**  
**RELEASE**  
**FINANCIAL ASSURANCE**

**Relative:**  
**Higher**

**SHWS:**  
Facility ID: 4-0022339  
Release Town: FAIRHAVEN  
Notification Date: 12/13/2009  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 12/13/2009  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

**Actual:**  
**15 ft.**

**Chemical:**  
Chemical: DIESEL/#2 FUEL OIL  
Quantity: 50 gallons

**Location:**  
Location Type: WATERBODY

**Source:**  
Source Type: UNKNOWN

**Action:**  
Action Type: Release  
Action Stat: REPORT  
Action Date: 12/13/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 12/13/2009  
Response Action Outcome: Not reported

**UST:**  
Facility ID: 3129

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA INC (Continued)**

**U004014106**

Facility:

Owner Id: 2330  
Owner: FAIRHAVEN SHIPYARD & MARINA INC  
Owner Address: 50 FORT ST  
Owner City,St,Zip: FAIRHAVEN, MA 02719  
Telephone: (508) 999-1600  
Description: Marina  
Fire Dept. ID: 5094  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Tank ID: 1  
**Tank Status: In Use**  
Tank Useage: Marina  
Tank Material: Cathodic  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: STIP-3  
Aboveground: No  
Capacity: 6000  
Contents: Gasoline

Tank ID: 2  
**Tank Status: In Use**  
Tank Useage: Marina  
Tank Material: Cathodic  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: STIP-3  
Aboveground: No  
Capacity: 6000  
Contents: Diesel

Release:

Facility ID: 4-0022339  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 12/13/2009  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 12/13/2009  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA INC (Continued)**

**U004014106**

Action Stat: REPORT  
Action Date: 12/13/2009  
Response Action Outcome: Not reported  
  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 12/13/2009  
Response Action Outcome: Not reported

Chemical:  
Chemical: DIESEL/#2 FUEL OIL  
Quantity: 50 gallons

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Release  
Action Stat: REPORT  
Action Date: 12/13/2009  
Response Action Outcome: Not reported  
  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 12/13/2009  
Response Action Outcome: Not reported

FINASS2:  
Facility Id: 3129  
Description: Marina  
Work Phone: (508) 999-1600  
Financial Resp: Commercial, State Fund, Normal

**077 FAIRHAVEN SHIPYARD & MARINA**  
**ENE 50 FORT ST**  
**1/2-1 FAIRHAVEN, MA 02719**  
**0.838 mi.**  
**4422 ft. Site 4 of 4 in cluster O**

**RCRA-SQG 1004717186**  
**FINDS MAD982189631**  
**SHWS**  
**MANIFEST**  
**RELEASE**

**Relative:**  
**Higher**

**Actual:**  
**15 ft.**

RCRA-SQG:  
Date form received by agency: 04/01/2008  
Facility name: FAIRHAVEN SHIPYARD & MARINA  
Facility address: 50 FORT ST  
FAIRHAVEN, MA 02719  
EPA ID: MAD982189631  
Contact: KEVIN MCLAUGHLIN  
Contact address: 50 FORT ST  
FAIRHAVEN, MA 027190000  
Contact country: US  
Contact telephone: (508) 996-1600  
Contact email: Not reported  
EPA Region: 01  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA (Continued)**

**1004717186**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: KEVIN MCLAUGHLIN  
Owner/operator address: 50 FORT ST  
FAIRHAVEN, MA 02719  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 12/01/2005  
Owner/Op end date: Not reported

Owner/operator name: RODMAN CANDLEWORKS REALTY LLC  
Owner/operator address: 50 FORT ST  
FAIRHAVEN, MA 02719  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 12/01/2005  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

**Historical Generators:**

Date form received by agency: 02/17/1987  
Facility name: FAIRHAVEN SHIPYARD & MARINA  
Classification: Conditionally Exempt Small Quantity Generator

**Hazardous Waste Summary:**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA (Continued)**

**1004717186**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018  
Waste name: BENZENE

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Waste code: D039  
Waste name: TETRACHLOROETHYLENE

Waste code: D040  
Waste name: TRICHLOROETHYLENE

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: MA01  
Waste name: WASTE OIL

Waste code: MA98  
Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Violation Status: No violations found

**FINDS:**

Registry ID: 110006817196

**Environmental Interest/Information System**

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA (Continued)**

**1004717186**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

**SHWS:**

Facility ID: 4-0012206  
Release Town: FAIRHAVEN  
Notification Date: 05/24/1996  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 06/14/1996  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Not reported

**Chemical:**

Chemical: HYDRAULIC OIL  
Quantity: 100 gallons

**Location:**

Location Type: Not reported

**Source:**

Source Type: Not reported

**Action:**

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA (Continued)**

**1004717186**

to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/24/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/24/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**MANIFEST:**

GEN Cert Date: 8/5/1987  
Transporter Recpt Date: Not reported  
Number Of Containers: 0  
Container Type: Not reported  
Waste Code1: MA01  
Waste Code2: Not reported  
Waste Code3: Not reported  
Comment: Not reported  
Fee Exempt Code: Not reported  
TSDf Name: NIC  
TSDf ID: RID991302407  
TSDf Date: Not reported  
Date Imported: Not reported  
Transporter 2 Name: Not reported  
Transporter 2 ID: Not reported  
Manifest Docket Number: Not reported  
Waste Description: Not reported  
Quantity: Not reported  
WT/Vol Units: Not reported  
Item Number: Not reported  
Transporter Name: Not reported  
Transporter EPA ID: Not reported  
GEN Cert Date: Not reported  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSDf Recpt Date: Not reported  
EPA ID: Not reported  
Transporter 2 ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA (Continued)**

**1004717186**

Release:

Facility ID: 4-0012206  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 05/24/1996  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 06/14/1996  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Not reported

Action:

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/24/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/24/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical: HYDRAULIC OIL  
Quantity: 100 gallons

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FAIRHAVEN SHIPYARD & MARINA (Continued)**

**1004717186**

Action:

Action Type: Immediate Response  
 Action Stat: Written Plan Received  
 Action Date: 06/14/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 06/14/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Stat: REPORT  
 Action Date: 06/14/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
 Action Stat: ISSUED  
 Action Date: 05/28/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
 Action Stat: REPORT  
 Action Date: 05/24/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
 Action Stat: FOLOFF  
 Action Date: 05/24/1996  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

78  
 NNW  
 1/2-1  
 0.841 mi.  
 4443 ft.

**NO LOCATION AID  
 343 ACUSHNET AVE  
 NEW BEDFORD, MA**

**LAST S106954228  
 RELEASE N/A**

**Relative:  
 Higher**

LAST:

Facility ID: 4-0019041  
 Source Type: AST  
 Release Town: NEW BEDFORD  
 Notification Date: 04/22/2005  
 Category: TWO HR  
 Associated ID: Not reported  
**Facility Status: Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**  
 Status Date: 05/01/2006  
 Phase: Not reported  
 Rspns Actn Outcome Class: Not reported  
 Oil Or Haz Material: Oil

**Actual:  
 41 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954228**

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 15 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/18/2008  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NOEC  
Action Date: 09/27/2007  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 06/15/2007  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 07/13/2006  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 02/06/2006  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/17/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/12/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/10/2005  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: INTLET  
Action Date: 05/04/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954228**

Action Date: 05/04/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0019041  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/22/2005  
Category: TWO HR  
Facility Status: TIER1D  
Status Date: 05/01/2006  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/18/2008  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NOEC  
Action Date: 09/27/2007  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 06/15/2007  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 07/13/2006  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954228**

Action Type: C&E  
Action Stat: NON  
Action Date: 02/06/2006  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/17/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/12/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/10/2005  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: INTLET  
Action Date: 05/04/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/04/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 15 gallons

Location:  
Location Type: COMMERCIAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954228**

Source:  
Source Type: AST

Action:  
Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/18/2008  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NOEC  
Action Date: 09/27/2007  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 06/15/2007  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 07/13/2006  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 02/06/2006  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/17/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/12/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/10/2005  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: INTLET  
Action Date: 05/04/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/04/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/22/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954228**

Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 04/22/2005  
Response Action Outcome: Not reported

**79**  
**NW**  
**1/2-1**  
**0.846 mi.**  
**4468 ft.**

**184 UNION @ PURCHASE**  
**185-187 UNION ST**  
**NEW BEDFORD, MA**

**SHWS** **S106617703**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

SHWS:  
Facility ID: 4-0018678  
Release Town: NEW BEDFORD  
Notification Date: 09/14/2004  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Submittal Invalidated by DEP**  
Status Date: 07/05/2005  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: #2 HEATING OIL  
Quantity: 398 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: PIPE

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 04/06/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/27/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/06/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**184 UNION @ PURCHASE (Continued)**

**S106617703**

Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NOEC  
Action Date: 07/25/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: INVSUB  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/11/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/01/2004  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/15/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/15/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/25/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/12/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**184 UNION @ PURCHASE (Continued)**

**S106617703**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/24/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0018678  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/14/2004  
Category: TWO HR  
Facility Status: INVSUB  
Status Date: 07/05/2005  
Phase: Not reported  
Rspsn Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: C&E  
Action Stat: NON  
Action Date: 04/06/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/27/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/06/2005  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NOEC  
Action Date: 07/25/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**184 UNION @ PURCHASE (Continued)**

**S106617703**

Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: INVSUB  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/11/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/01/2004  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/15/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/15/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/25/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/12/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/24/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**184 UNION @ PURCHASE (Continued)**

**S106617703**

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Chemical:  
Chemical: #2 HEATING OIL  
Quantity: 398 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: PIPE

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 04/06/2006  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 09/27/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/06/2005  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NOEC  
Action Date: 07/25/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**184 UNION @ PURCHASE (Continued)**

**S106617703**

Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: INVSUB  
Action Date: 07/05/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/11/2005  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/11/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/01/2004  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/15/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/15/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/25/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/12/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/24/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

184 UNION @ PURCHASE (Continued)

S106617703

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/14/2004  
Response Action Outcome: Not reported

N80  
NW  
1/2-1  
0.847 mi.  
4472 ft.

PRIMA CARE VISION CENTER  
74 SPRING ST  
NEW BEDFORD, MA

SHWS S104562712  
LAST N/A  
RELEASE

Site 2 of 3 in cluster N

Relative:  
Higher

SHWS:  
Facility ID: 4-0015333  
Release Town: NEW BEDFORD  
Notification Date: 03/12/2000  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 01/04/2001  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Actual:  
66 ft.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: RESIDENTIAL

Source:  
Source Type: AST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIMA CARE VISION CENTER (Continued)**

**S104562712**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 12/13/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 12/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**LAST:**

Facility ID: 4-0015333  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 03/12/2000  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIMA CARE VISION CENTER (Continued)**

**S104562712**

Status Date: 01/04/2001  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: RESIDENTIAL

Source:  
Source Type: AST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 12/13/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 12/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIMA CARE VISION CENTER (Continued)**

**S104562712**

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0015333  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/12/2000  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 01/04/2001  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 04/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIMA CARE VISION CENTER (Continued)**

**S104562712**

Action Stat: REPORT  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 12/13/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 12/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: RESIDENTIAL

Source:  
Source Type: AST  
Source Type: PIPE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIMA CARE VISION CENTER (Continued)**

**S104562712**

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/05/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 12/13/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 12/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 03/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIMA CARE VISION CENTER (Continued)**

**S104562712**

Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/02/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**81  
NE  
1/2-1  
0.854 mi.  
4511 ft.**

**REIDARS MANUFACTURING  
10 WATER ST  
FAIRHAVEN, MA 02719**

**SHWS S104562734  
RELEASE N/A  
INST CONTROL**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0015406  
Release Town: FAIRHAVEN  
Notification Date: 04/05/2000  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 04/08/2002  
Phase: PHASE II  
Response Action Outcome Class: A3  
Oil Or Haz Material: Hazardous Material

**Actual:  
12 ft.**

Chemical:  
Chemical: C9-C18 ALIPHATICS  
Quantity: 1300 milligrams per kilogram  
Chemical: BERYLLIUM  
Quantity: 1.3 milligrams per kilogram  
Chemical: C11-C22 AROMATICS  
Quantity: 560 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 10/03/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 10/03/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

Action Date: 03/15/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 02/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 02/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/30/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 05/01/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 04/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 04/09/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REIDARS MANUFACTURING (Continued)

S104562734

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/08/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 12/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RFIRSP  
Action Date: 12/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RFI  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: INTLET  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Action Audited  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 08/16/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/12/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Facility ID: 4-0015406  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 04/05/2000  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 04/08/2002  
Phase: PHASE II  
Rspns Actn Outcome Class: A3  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 10/03/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 10/03/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 03/15/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 02/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 02/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/30/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 05/01/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 04/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 04/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/08/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 12/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

Action Stat: RFIRSP  
Action Date: 12/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RFI  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: INTLET  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Action Audited  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 08/16/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/12/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:  
Chemical: C9-C18 ALIPHATICS  
Quantity: 1300 milligrams per kilogram  
Chemical: BERYLLIUM  
Quantity: 1.3 milligrams per kilogram  
Chemical: C11-C22 AROMATICS  
Quantity: 560 milligrams per kilogram

Location:  
Location Type: Not reported

MAP FINDINGS

**REIDARS MANUFACTURING (Continued)**

**S104562734**

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 10/03/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Confirmatory AUL received  
Action Date: 10/03/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 03/15/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 02/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 02/01/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/30/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 05/01/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MAP FINDINGS

**REIDARS MANUFACTURING (Continued)**

**S104562734**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 04/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Legal Notice Published  
Action Date: 04/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/08/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 12/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RFIRSP  
Action Date: 12/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 12/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: RFI  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

been implemented.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: INTLET  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Action Audited  
Action Date: 12/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 04/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 08/16/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REIDARS MANUFACTURING (Continued)**

**S104562734**

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/12/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

**INST CONTROL:**

Release Tracking Number: 4-0015406  
Action Type: AUL  
Action Stat: CONFRM  
Action Date: 10/03/2007  
Response Action Outcome: A3

Release Tracking Number: 4-0015406  
Action Type: AUL  
Action Stat: LEGNOT  
Action Date: 04/09/2002  
Response Action Outcome: A3

Release Tracking Number: 4-0015406  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 02/01/2007  
Response Action Outcome: A3

Release Tracking Number: 4-0015406  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 05/01/2002  
Response Action Outcome: A3

Release Tracking Number: 4-0015406  
Action Type: AUL  
Action Stat: TSAUD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REIDARS MANUFACTURING (Continued)

S104562734

Action Date: 05/30/2002  
Response Action Outcome: A3

Release Tracking Number: 4-0015406  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 04/29/2002  
Response Action Outcome: A3

N82  
NW  
1/2-1  
0.860 mi.  
4542 ft.

MAY INSTITUTE  
9 SOUTH 6TH ST  
NEW BEDFORD, MA  
Site 3 of 3 in cluster N

LAST  
RELEASE S107517183  
N/A

Relative:  
Higher

LAST:  
Facility ID: 4-0019386  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 10/07/2005  
Category: TWO HR  
Associated ID: Not reported  
Facility Status: Release Action Outcome  
Status Date: 10/13/2006  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Actual:  
70 ft.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 40 gallons

Location:  
Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/09/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAY INSTITUTE (Continued)**

**S107517183**

Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/03/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 12/06/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/05/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/05/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/17/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/11/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAY INSTITUTE (Continued)**

**S107517183**

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0019386  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/07/2005  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 10/13/2006  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 10/09/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/03/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAY INSTITUTE (Continued)**

**S107517183**

Action Stat: FOLOFF  
Action Date: 12/06/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/05/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/05/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/17/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/11/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAY INSTITUTE (Continued)**

**S107517183**

reduced to background.

Chemical:

Chemical: #2 FUEL OIL  
Quantity: 40 gallons

Location:

Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

Source:

Source Type: AST

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/09/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/03/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 12/06/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/05/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAY INSTITUTE (Continued)**

**S107517183**

Action Date: 12/05/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/17/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/11/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: FLDISS  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/07/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

83  
NE  
1/2-1  
0.881 mi.  
4652 ft.

**HATHAWAY BRALEY FMR  
14 MAIN ST  
FAIRHAVEN, MA 02719**

**SHWS S100351824  
LUST N/A  
RELEASE**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0000785  
Release Town: FAIRHAVEN  
Notification Date: 10/15/1989  
Category: NONE

**Actual:  
7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Associated ID: 4-0000785  
**Compliance Status: Remedy Operation Status**  
Status Date: 04/06/2001  
Phase: PHASE V  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: VOCS  
Quantity: Not reported

Location:  
Location Type: RAILROAD  
Location Type: FORMER

Source:  
Source Type: UNKNOWN  
Source Type: UST

Action:  
Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/02/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 02/25/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 08/29/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/19/2007  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	09/20/2006
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	03/20/2006
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Level II - Audit Inspection
Action Date:	01/25/2006
Response Action Outcome:	Not reported
Action Type:	AUDCOM
Action Stat:	NAFNON
Action Date:	01/25/2006
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Completion Statement Received
Action Date:	12/29/2005
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	As-Built Construction report Received
Action Date:	12/29/2005
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	11/02/2005
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	03/21/2005
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	08/26/2004
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	04/21/2004
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	09/29/2003
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 02/03/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Transfer  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/21/1995  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/17/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 11/01/1990  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1990  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 08/21/1989  
Response Action Outcome: Not reported

Facility ID: 4-0020656  
Release Town: FAIRHAVEN  
Notification Date: 06/18/2007  
Category: 120 DY  
Associated ID: 4-0000785  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 06/17/2008  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil and Hazardous Material

Chemical:  
Chemical: LEAD  
Quantity: 578 milligrams per kilogram  
Chemical: BENZO[A]PYRENE  
Quantity: 3.25 milligrams per kilogram  
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 803 milligrams per kilogram  
Chemical: AROCLOR 1254  
Quantity: 9.9 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	06/02/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Level I - Technical Screen Audit
Action Date:	11/28/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	11/27/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	11/27/2007
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/30/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Fee Received
Action Date:	08/03/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Level I - Technical Screen Audit
Action Date:	08/02/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Written Plan Received
Action Date:	07/31/2007
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	06/18/2007
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	06/18/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Transfer
Action Date:	11/29/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 11/21/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

LUST:

Facility:

Facility ID: 4-0016178  
**Facility Status: Response Action Outcome Not Required**  
Status Date: 09/12/2001  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 04/10/2001  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:

Chemical: #2 FUEL OIL  
Quantity: 3 inches

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Immediate Response  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 09/14/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Facility:

Facility ID: 4-0000785  
**Facility Status: Remedy Operation Status**  
Status Date: 04/06/2001  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 10/15/1989  
Category: NONE  
Associated ID: 4-0000785  
Phase: PHASE V  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:

Chemical: VOCS  
Quantity: Not reported

Location:

Location Type: RAILROAD  
Location Type: FORMER

Source:

Source Type: UNKNOWN  
Source Type: UST

Action:

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 09/02/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 02/25/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 08/29/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/19/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/20/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/20/2006  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Level II - Audit Inspection  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/29/2005  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: As-Built Construction report Received  
Action Date: 12/29/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 11/02/2005  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	03/21/2005
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	08/26/2004
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	04/21/2004
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	09/29/2003
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	IMRCD
Action Date:	02/03/2003
Response Action Outcome:	Not reported
Action Type:	Phase IV
Action Stat:	Written Plan Received
Action Date:	04/06/2001
Response Action Outcome:	Not reported
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	04/06/2001
Response Action Outcome:	Not reported
Action Type:	Phase III
Action Stat:	Completion Statement Received
Action Date:	04/06/2001
Response Action Outcome:	Not reported
Action Type:	Phase II
Action Stat:	Completion Statement Received
Action Date:	04/06/2001
Response Action Outcome:	Not reported
Action Type:	Phase II
Action Stat:	Scope of Work Received
Action Date:	11/29/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Transfer
Action Date:	11/29/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 11/21/1995  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/17/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 11/01/1990  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1990  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 08/21/1989  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0000785  
Primary ID: 4-0000785  
Official City: FAIRHAVEN  
Notification: 10/15/1989  
Category: NONE  
Facility Status: REMOPS  
Status Date: 04/06/2001  
Phase: PHASE V  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/02/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 02/25/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 08/29/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/19/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/20/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/20/2006  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Level II - Audit Inspection  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 01/25/2006  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/29/2005  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: As-Built Construction report Received  
Action Date: 12/29/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 11/02/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/21/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/26/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 04/21/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/29/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/03/2003  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Transfer  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/21/1995  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/17/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVSIG  
Action Date: 11/01/1990  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1990  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 08/21/1989  
Response Action Outcome: Not reported

Chemical:  
Chemical: VOCS  
Quantity: Not reported

Location:  
Location Type: RAILROAD  
Location Type: FORMER

Source:  
Source Type: UNKNOWN  
Source Type: UST

Action:  
Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/04/2009  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/05/2009  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 09/02/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 02/25/2008  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 08/29/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 03/19/2007  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Status Report Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 09/20/2006  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/20/2006  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Level II - Audit Inspection  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 01/25/2006  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/29/2005  
Response Action Outcome: Not reported

Action Type: Phase IV  
Action Stat: As-Built Construction report Received  
Action Date: 12/29/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 11/02/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/21/2005  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/26/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 04/21/2004  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/29/2003  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/03/2003  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/06/2001  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Transfer  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/21/1995  
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/17/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVACC  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVSIG

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 11/01/1990  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1990  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 10/15/1989  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 08/21/1989  
Response Action Outcome: Not reported

Facility ID: 4-0016178  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 04/10/2001  
Category: 72 HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 09/12/2001  
Phase: Not reported  
Rspsn Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/14/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Date: 04/10/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 3 inches

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/14/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 04/10/2001  
Response Action Outcome: Not reported

Facility ID: 4-0020656  
Primary ID: 4-0000785  
Official City: FAIRHAVEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Notification: 06/18/2007  
Category: 120 DY  
Facility Status: Response Action Outcome Not Required  
Status Date: 06/17/2008  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil and Hazardous Material

Action:

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 06/02/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/28/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 11/27/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 11/27/2007  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/30/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 08/03/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/02/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/31/2007  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/18/2007  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/18/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Transfer  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/21/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

Chemical:  
Chemical: LEAD  
Quantity: 578 milligrams per kilogram  
Chemical: BENZO[A]PYRENE  
Quantity: 3.25 milligrams per kilogram  
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 803 milligrams per kilogram  
Chemical: AROCLOR 1254  
Quantity: 9.9 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 06/17/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Action Stat: Status Report Received  
Action Date: 06/02/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/28/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 11/27/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 11/27/2007  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/30/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 08/03/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/02/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/31/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/18/2007  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/18/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Transfer  
Action Date: 11/29/2000  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 11/21/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HATHAWAY BRALEY FMR (Continued)**

**S100351824**

Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 11/13/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 11/21/1990  
Response Action Outcome: Not reported

**Q84**  
**South**  
**1/2-1**  
**0.888 mi.**  
**4690 ft.**

**NO LOCATION AID**  
**775 BROCK AVE**  
**NEW BEDFORD, MA**

**Site 1 of 2 in cluster Q**

**LUST** **S103384037**  
**RELEASE** **N/A**

**Relative:**  
**Higher**

LUST:

Facility:

**Actual:**  
**22 ft.**

Facility ID: 4-0013955  
**Facility Status: Release Action Outcome**  
Status Date: 02/05/2001  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 06/16/1998  
Category: 72 HR  
Associated ID: Not reported  
Phase: PHASE II  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:

Chemical: GASOLINE  
Quantity: 170 parts per million

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/17/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103384037**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/16/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/16/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/30/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 06/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0013955  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 06/16/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103384037**

Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 02/05/2001  
Phase: PHASE II  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/16/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/16/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103384037**

Action Date: 06/30/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 06/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: GASOLINE  
Quantity: 170 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 03/30/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/05/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/16/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/16/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103384037**

Action Stat: Completion Statement Received  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 08/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/30/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 06/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Q85**  
**South**  
**1/2-1**  
**0.888 mi.**  
**4690 ft.**

**CUMBERLAND FARMS**  
**775 BROOK AVE**  
**NEW BEDFORD, MA**

**SHWS** **S108034330**  
**RELEASE** **N/A**

**Site 2 of 2 in cluster Q**

**Relative:**  
**Higher**

SHWS:  
Facility ID: 4-0019742  
Release Town: NEW BEDFORD  
Notification Date: 05/04/2006  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status:** **Release Action Outcome**  
Status Date: 07/02/2007  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: GASOLINE  
Quantity: 10 gallons

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S108034330**

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/06/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/02/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/28/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/02/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 05/30/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0019742  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/04/2006  
Category: TWO HR  
Facility Status: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S108034330**

Status Date: 07/02/2007  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/06/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/02/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/28/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/02/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 05/30/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: GASOLINE  
Quantity: 10 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: PIPE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S108034330**

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/06/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/02/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/28/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/02/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: C&E  
Action Stat: NON  
Action Date: 05/30/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/06/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/04/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

R86  
NE  
1/2-1  
0.890 mi.  
4700 ft.

**DN KELLEY & SONS SHIPYARD  
32 WATER ST  
FAIRHAVEN, MA 02719**  
Site 1 of 3 in cluster R

**SHWS S101036851  
RELEASE N/A**

Relative:  
Higher

SHWS:

Facility ID: 4-0017343  
Release Town: FAIRHAVEN  
Notification Date: 09/13/2002  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**

Actual:  
16 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SONS SHIPYARD (Continued)**

**S101036851**

Status Date: 09/13/2002  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 50 gallons

Location:  
Location Type: COMMERCIAL  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0017343  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 09/13/2002  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 09/13/2002  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/13/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SONS SHIPYARD (Continued)**

**S101036851**

Response Action Outcome: Not reported

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 50 gallons

Location:  
Location Type: COMMERCIAL  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/13/2002  
Response Action Outcome: Not reported

R87  
NE  
1/2-1  
0.890 mi.  
4700 ft.

**DN KELLEY & SON  
32 WATER ST  
FAIRHAVEN, MA 02719**  
**Site 2 of 3 in cluster R**

**RCRA-SQG 1000282431  
FINDS MAD001407931  
LUST  
MANIFEST  
RELEASE**

**Relative:  
Higher**

RCRA-SQG:  
Date form received by agency: 05/08/1990  
Facility name: DN KELLEY & SON  
Facility address: 32 WATER ST  
FAIRHAVEN, MA 02719  
EPA ID: MAD001407931  
Mailing address: PO BOX 191  
FAIRHAVEN, MA 027190000  
Contact: VICTORIA CALLAHAN  
Contact address: PO BOX 191  
FAIRHAVEN, MA 02719  
Contact country: US  
Contact telephone: (509) 999-6266  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Actual:  
16 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SON (Continued)**

**1000282431**

Owner/Operator Summary:

Owner/operator name: DN KELLEY & SONS  
Owner/operator address: PO BOX 191  
FAIRHAVEN, MA 02719  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/15/1993  
Owner/Op end date: Not reported

Owner/operator name: DAVID N KELLEY II  
Owner/operator address: PO BOX 191  
FAIRHAVEN, MA 02719  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 06/24/1980  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/24/1980  
Facility name: DN KELLEY & SON  
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SON (Continued)**

**1000282431**

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SON (Continued)**

**1000282431**

Waste code: MA01  
Waste name: WASTE OIL

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 08/06/1986  
Date achieved compliance: 02/10/1987  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/15/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 08/06/1986  
Date achieved compliance: 01/07/1987  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 08/15/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 02/23/1987  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/07/1987  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/06/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/10/1987  
Evaluation lead agency: State

Evaluation date: 08/06/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/07/1987  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SON (Continued)**

**1000282431**

FINDS:

Registry ID: 110003421413

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

LUST:

Facility:

Facility ID: 4-0000306  
**Facility Status: No Further Action (DEP Determined)**  
Status Date: 07/23/1993  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 01/08/1987  
Category: NONE  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:

Chemical: UNKNOWN  
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: TREGS  
Action Stat: DEPNFA  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/08/1987  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/08/1987  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SON (Continued)**

**1000282431**

MANIFEST:

GEN Cert Date: 9/6/1989  
Transporter Recpt Date: 9/29/2004  
Number Of Containers: 1  
Container Type: NONE  
Waste Code1: MA98  
Waste Code2: D039  
Waste Code3: Not reported  
Comment: gen date approx  
Fee Exempt Code: 4  
TSDf Name: United Oil Recovery Inc  
TSDf ID: RID991302407  
TSDf Date: 9/29/2004  
Date Imported: 9/5/2003 1:26:58 PM  
Transporter 2 Name: Not reported  
Transporter 2 ID: CTD021816889  
Manifest Docket Number: Not reported  
Waste Description: Not reported  
Quantity: Not reported  
WT/Vol Units: Not reported  
Item Number: Not reported  
Transporter Name: Not reported  
Transporter EPA ID: Not reported  
GEN Cert Date: Not reported  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSDf Recpt Date: Not reported  
EPA ID: Not reported  
Transporter 2 ID: Not reported

Release:

Facility ID: 4-0000306  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 01/08/1987  
Category: NONE  
Facility Status: DEP No Further Action  
Status Date: 07/23/1993  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: TREGS  
Action Stat: DEPNFA  
Action Date: 07/23/1993  
Response Action Outcome: Not reported  
  
Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/08/1987  
Response Action Outcome: Not reported  
  
Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/08/1987

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DN KELLEY & SON (Continued)**

1000282431

Response Action Outcome: Not reported

Chemical:

Chemical: UNKNOWN  
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: TREGS  
Action Stat: DEPNFA  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/08/1987  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/08/1987  
Response Action Outcome: Not reported

R88  
NE  
1/2-1  
0.890 mi.  
4700 ft.

**UNION WARF  
WATER / UNION ST  
FAIRHAVEN, MA 02719**  
Site 3 of 3 in cluster R

SHWS S104562789  
RELEASE N/A  
INST CONTROL

Relative:  
Higher

SHWS:

Facility ID: 4-0015573  
Release Town: FAIRHAVEN  
Notification Date: 06/22/2000  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 06/25/2001  
Phase: PHASE V  
Response Action Outcome Class: A3  
Oil Or Haz Material: Oil

Actual:  
16 ft.

Chemical:

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 2400 parts per billion  
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 2400 parts per million  
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 5400 parts per million

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Action:

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 05/06/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 04/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 04/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 02/12/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/16/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/07/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 06/21/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 02/07/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/09/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Action Stat: Written Plan Received  
Action Date: 10/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Denial of Plan  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/20/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:  
Facility ID: 4-0015573  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 06/22/2000  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 06/25/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Phase: PHASE V  
Rspns Actn Outcome Class: A3  
Oil / Haz Material Type: Oil

Action:

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 05/06/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 04/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 04/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 02/12/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/16/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/07/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 06/21/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 02/07/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/09/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 10/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Denial of Plan  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/20/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
Quantity: 2400 parts per billion  
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
Quantity: 2400 parts per million  
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Quantity: 5400 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 05/06/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 04/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level II - Audit Inspection  
Action Date: 04/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 02/12/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/16/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/07/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
Action Stat: Transmittal Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Action Stat: Fee Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/25/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 06/21/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 04/09/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 04/04/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 02/07/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/09/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Action Date: 10/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 10/17/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Denial of Plan  
Action Date: 08/08/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 07/20/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/22/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

**INST CONTROL:**

Release Tracking Number: 4-0015573

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION WARF (Continued)**

**S104562789**

Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 04/15/2005  
Response Action Outcome: A3

Release Tracking Number: 4-0015573  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 06/25/2001  
Response Action Outcome: A3

Release Tracking Number: 4-0015573  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 03/07/2004  
Response Action Outcome: A3

**89**  
South  
1/2-1  
0.898 mi.  
4742 ft.

**NO LOCATION AID**  
**127 WEST RODNEY FRENCH BLVD**  
**NEW BEDFORD, MA**

**SHWS S104232400**  
**RELEASE N/A**

**Relative:**  
**Equal**  
**Actual:**  
**0 ft.**

SHWS:  
Facility ID: 4-0012163  
Release Town: NEW BEDFORD  
Notification Date: 05/06/1996  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 07/08/1996  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 15 gallons

Location:  
Location Type: ROADWAY

Source:  
Source Type: SADDLETNK

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232400**

Action Date: 05/17/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/06/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0000675  
Release Town: NEW BEDFORD  
Notification Date: 04/15/1989  
Category: NONE  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 06/05/1996  
Phase: PHASE II  
Response Action Outcome Class: A2  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/05/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/05/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0000675  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/15/1989  
Category: NONE  
Facility Status: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232400**

Status Date: 06/05/1996  
Phase: PHASE II  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Not reported

Action:

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/05/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/05/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: UNKNOWN  
Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/05/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/05/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 04/15/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 4-0012163  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/06/1996  
Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232400**

Facility Status: Response Action Outcome  
Status Date: 07/08/1996  
Phase: Not reported  
Rsps Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/17/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/06/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 15 gallons

Location:  
Location Type: ROADWAY

Source:  
Source Type: SADDLETNK

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/17/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232400**

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/06/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**S90**  
**SW**  
**1/2-1**  
**0.903 mi.**  
**4766 ft.**

**NO LOCATION AID**  
**1337 COVE RD**  
**NEW BEDFORD, MA**  
**Site 1 of 2 in cluster S**

**SHWS** **S105043623**  
**RELEASE** **N/A**

**Relative:**  
**Equal**

**SHWS:**  
Facility ID: 4-0016221  
Release Town: NEW BEDFORD  
Notification Date: 04/24/2001  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 01/20/2009  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

**Actual:**  
**0 ft.**

Chemical:  
Chemical: NAPHTHALENE  
Quantity: 8.7 parts per million  
Chemical: LEAD  
Quantity: 980 parts per million  
Chemical: LEAD  
Quantity: .053 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 01/20/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 01/20/2009  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 11/21/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 11/21/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105043623**

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/05/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/24/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 07/10/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/09/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 01/16/2002  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/05/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/24/2001  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/24/2001  
Response Action Outcome: Not reported

**Release:**

Facility ID: 4-0016221  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/24/2001  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 01/20/2009  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105043623**

Action:

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 01/20/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 01/20/2009  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 11/21/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 11/21/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/05/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/24/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 07/10/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/09/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 01/16/2002  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/05/2001  
Response Action Outcome: Not reported

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105043623**

Action Stat: REPORT  
Action Date: 04/24/2001  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/24/2001  
Response Action Outcome: Not reported

Chemical:  
Chemical: NAPHTHALENE  
Quantity: 8.7 parts per million  
Chemical: LEAD  
Quantity: 980 parts per million  
Chemical: LEAD  
Quantity: .053 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 01/20/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 01/20/2009  
Response Action Outcome: Not reported

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 11/21/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 11/21/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 11/05/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/24/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 07/10/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105043623**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/09/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 01/16/2002  
Response Action Outcome: Not reported

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/15/2002  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/05/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/24/2001  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 04/24/2001  
Response Action Outcome: Not reported

S91  
SW  
1/2-1  
0.905 mi.  
4778 ft.

**NO LOCATION AID**  
**1339 COVE RD**  
**NEW BEDFORD, MA**  
**Site 2 of 2 in cluster S**

**LUST S104179998**  
**RELEASE N/A**

**Relative:**  
**Equal**

LUST:

**Actual:**  
**0 ft.**

Facility:  
Facility ID: 4-0014963  
**Facility Status: Release Action Outcome**  
Status Date: 01/03/2000  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 08/26/1999  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: #6 FUEL OIL  
Quantity: 166 parts per million

Location:  
Location Type: COMMERCIAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104179998**

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome

Action Stat: Level I - Technical Screen Audit

Action Date: 06/21/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 01/03/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLFLD

Action Date: 10/21/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 10/19/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 10/18/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Action Stat: REPORT

Action Date: 10/18/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 10/15/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 10/07/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 09/15/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104179998**

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0014963  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 08/26/1999  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 01/03/2000  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 06/21/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 10/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/19/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 10/18/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104179998**

Action Stat: REPORT  
Action Date: 10/18/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/07/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: #6 FUEL OIL  
Quantity: 166 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/21/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104179998**

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 10/21/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/19/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 10/18/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/18/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/07/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

T92  
NNW  
1/2-1  
0.924 mi.  
4879 ft.

BELL ATLANTIC CENTRAL OFFICE  
390 ACHUSNET AVE  
NEW BEDFORD, MA 02740

SHWS S103250201  
RELEASE N/A

Site 1 of 2 in cluster T

Relative:  
Higher

SHWS:

Actual:  
35 ft.

Facility ID: 4-0013912  
Release Town: NEW BEDFORD  
Notification Date: 05/20/1998  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 02/26/1999  
Phase: Not reported  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:

Chemical: TPH  
Quantity: 240 parts per million

Location:

Location Type: Not reported

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/04/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 03/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/20/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BELL ATLANTIC CENTRAL OFFICE (Continued)**

**S103250201**

Action Date: 07/31/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/23/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/20/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/20/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0013912  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/20/1998  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 02/26/1999  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/04/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 03/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/26/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BELL ATLANTIC CENTRAL OFFICE (Continued)**

**S103250201**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/20/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/31/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/23/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/20/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/20/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: TPH  
Quantity: 240 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BELL ATLANTIC CENTRAL OFFICE (Continued)**

**S103250201**

Action Date: 01/04/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 03/11/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 02/26/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/20/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/31/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/23/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/20/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 05/20/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**T93**  
**NNW**  
**1/2-1**  
**0.932 mi.**  
**4922 ft.**

**ADJACENT TO ELM ST GARAGE & RTE 18**  
**ELM ST PARCEL 19**  
**NEW BEDFORD, MA**

**SHWS** **S103546575**  
**RELEASE** **N/A**

**Site 2 of 2 in cluster T**

**Relative:**  
**Higher**

**SHWS:**  
 Facility ID: 4-0010559  
 Release Town: NEW BEDFORD  
 Notification Date: 10/19/1994  
 Category: 120 DY  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 05/24/1995  
 Phase: Not reported  
 Response Action Outcome Class: A1  
 Oil Or Haz Material: Hazardous Material

**Actual:**  
**28 ft.**

**Chemical:**  
 Chemical: LEAD  
 Quantity: 10 parts per million  
 Chemical: PAH  
 Quantity: 82 parts per million

**Location:**  
 Location Type: COMMERCIAL

**Source:**  
 Source Type: HISTUSE

**Action:**  
 Action Type: Response Action Outcome  
 Action Stat: Fee Received  
 Action Date: 05/24/1995  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 05/24/1995  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
 Action Stat: Completion Statement Received  
 Action Date: 05/24/1995  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
 Action Stat: ISSUED  
 Action Date: 03/06/1995  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
 Action Stat: Written Approval of Plan  
 Action Date: 03/06/1995  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ADJACENT TO ELM ST GARAGE & RTE 18 (Continued)

S103546575

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0010559  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/19/1994  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 05/24/1995  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/24/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/24/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/24/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 03/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ADJACENT TO ELM ST GARAGE & RTE 18 (Continued)

S103546575

Action Stat: REPORT  
Action Date: 10/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: LEAD  
Quantity: 10 parts per million  
Chemical: PAH  
Quantity: 82 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: HISTUSE

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 05/24/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 05/24/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 05/24/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 03/06/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ADJACENT TO ELM ST GARAGE & RTE 18 (Continued)

S103546575

to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

94  
NW  
1/2-1  
0.944 mi.  
4986 ft.

NO LOCATION AID  
281 UNION ST  
NEW BEDFORD, MA

LAST  
RELEASE S104232398  
N/A

Relative:  
Higher

LAST:  
Facility ID: 4-0011886  
Source Type: AST  
Release Town: NEW BEDFORD  
Notification Date: 01/13/1996  
Category: TWO HR  
Associated ID: Not reported  
**Facility Status: Release Action Outcome**  
Status Date: 01/16/1997  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: HEATING OIL  
Quantity: 150 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 01/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/16/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232398**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 01/16/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 01/19/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 01/17/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release

Action Stat: REPORT

Action Date: 01/13/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response

Action Stat: Oral Approval of Plan

Action Date: 01/13/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**Release:**

Facility ID: 4-0011886

Primary ID: Not reported

Official City: NEW BEDFORD

Notification: 01/13/1996

Category: TWO HR

Facility Status: Response Action Outcome

Status Date: 01/16/1997

Phase: Not reported

Rspns Actn Outcome Class: A1

Oil / Haz Material Type: Oil

**Action:**

Action Type: Response Action Outcome

Action Stat: Fee Received

Action Date: 01/17/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response

Action Stat: Completion Statement Received

Action Date: 01/16/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232398**

to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/19/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/17/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/13/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/13/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: HEATING OIL  
Quantity: 150 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: AST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 01/17/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104232398**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 01/16/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/16/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 01/16/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/16/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 01/19/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/17/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 01/13/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 01/13/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

95  
 NNW  
 1/2-1  
 0.972 mi.  
 5130 ft.

**NO LOCATION AID**  
**1 FISH ISLAND RD**  
**NEW BEDFORD, MA**

**SHWS** S103546628  
**RELEASE** N/A

**Relative:**  
**Equal**

SHWS:  
 Facility ID: 4-0014200  
 Release Town: NEW BEDFORD  
 Notification Date: 10/16/1998  
 Category: 72 HR  
 Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
 Status Date: 10/16/2008  
 Phase: PHASE III  
 Response Action Outcome Class: A2  
 Oil Or Haz Material: Oil

**Actual:**  
**0 ft.**

Chemical:  
 Chemical: OIL  
 Quantity: 100 parts per million

Location:  
 Location Type: COMMERCIAL

Source:  
 Source Type: Not reported

Action:  
 Action Type: Response Action Outcome  
 Action Stat: Level I - Technical Screen Audit  
 Action Date: 12/26/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
 Action Stat: RAO Statement Received  
 Action Date: 10/16/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
 Action Stat: Completion Statement Received  
 Action Date: 10/16/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
 Action Stat: Tier 2 Extension  
 Action Date: 01/18/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
 Action Stat: INTLET  
 Action Date: 11/15/2006  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
 Action Stat: NOEC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Action Date: 08/09/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 02/21/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 12/17/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 02/07/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/24/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/17/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/22/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/22/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/22/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/17/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/27/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/23/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/16/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0014200  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/16/1998  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 10/16/2008  
Phase: PHASE III  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/26/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 10/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 01/18/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 11/15/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NOEC  
Action Date: 08/09/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 02/21/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

reduced to background.

Action Type: C&E  
Action Stat: NON  
Action Date: 12/17/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/27/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 02/07/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 04/24/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/17/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/22/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Action Stat: Transmittal Received  
Action Date: 10/22/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/22/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/17/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/27/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/23/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: OIL  
Quantity: 100 parts per million

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Location:

Location Type: COMMERCIAL

Source:

Source Type: Not reported

Action:

Action Type: Response Action Outcome

Action Stat: Level I - Technical Screen Audit

Action Date: 12/26/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 10/16/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II

Action Stat: Completion Statement Received

Action Date: 10/16/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Action Stat: Tier 2 Extension

Action Date: 01/18/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: INTLET

Action Date: 11/15/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: NOEC

Action Date: 08/09/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: NON

Action Date: 02/21/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E

Action Stat: NON

Action Date: 12/17/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Action Stat: Tier 2 Extension

Action Date: 08/27/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Notice of Delay in meeting Response Action Deadline  
Action Date: 03/03/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 02/07/2003

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/24/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 04/17/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/22/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/22/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/22/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S103546628**

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/17/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/27/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/18/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/23/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

---

**U96** ROOSEVELT JR HIGH SCHOOL  
**SSE** ROOSEVELT AVE  
**1/2-1** NEW BEDFORD, MA  
**0.995 mi.**  
**5253 ft.** Site 1 of 2 in cluster U

**LUST** S103812419  
**RELEASE** N/A

**Relative:**  
**Higher**

LUST:

Facility:

**Actual:**  
**19 ft.**

Facility ID: 4-0012020  
**Facility Status:** Release Action Outcome  
Status Date: 06/11/1996  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 03/15/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JR HIGH SCHOOL (Continued)**

**S103812419**

Category: TWO HR  
Associated ID: Not reported  
Phase: Not reported  
Rsps Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 65 gallons

Location:  
Location Type: MUNICIPAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JR HIGH SCHOOL (Continued)**

**S103812419**

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0012020  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 03/15/1996  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 06/11/1996  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JR HIGH SCHOOL (Continued)**

**S103812419**

Action Stat: FLDD1A  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: #2 FUEL OIL  
Quantity: 65 gallons

Location:  
Location Type: MUNICIPAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/11/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 03/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JR HIGH SCHOOL (Continued)**

**S103812419**

Action Type: RLFA  
Action Stat: FLDD1A  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

97  
NW  
> 1  
1.017 mi.  
5372 ft.

**NO LOCATION AID  
71 MECHANICS LN  
NEW BEDFORD, MA**

**SHWS S106954142  
RELEASE N/A**

**Relative:  
Higher**

SHWS:  
Facility ID: 4-0019002  
Release Town: NEW BEDFORD  
Notification Date: 04/01/2005  
Category: 72 HR  
Associated ID: Not reported  
**Compliance Status: Downgradient Property Status**  
Status Date: 03/31/2006  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

**Actual:  
82 ft.**

Chemical:  
Chemical: OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: RESIDENTIAL

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Immediate Response  
Action Stat: LNKVIC  
Action Date: 02/13/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/13/2008  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/19/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Action Date: 08/22/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 08/20/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/26/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/25/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/16/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/16/2006  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Fee Received  
Action Date: 03/31/2006  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Transmittal Received  
Action Date: 03/31/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/07/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 02/03/2006  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/27/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/27/2006  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/23/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/26/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/12/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/01/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 04/01/2005  
Response Action Outcome: Not reported

**Release:**

Facility ID: 4-0019002  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 04/01/2005  
Category: 72 HR  
Facility Status: Downgradient Property Status  
Status Date: 03/31/2006  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Action:

Action Type: Immediate Response  
Action Stat: LNKVIC  
Action Date: 02/13/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/13/2008  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/19/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/22/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 08/20/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/26/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/25/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/16/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/16/2006  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Fee Received  
Action Date: 03/31/2006  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Transmittal Received  
Action Date: 03/31/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Action Stat: Level I - Technical Screen Audit  
Action Date: 02/07/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 02/03/2006  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/27/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/27/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/23/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/26/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/12/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/01/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 04/01/2005  
Response Action Outcome: Not reported

Chemical:  
Chemical: OIL  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL  
Location Type: RESIDENTIAL

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Immediate Response  
Action Stat: LNKVIC  
Action Date: 02/13/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/13/2008  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/19/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 08/22/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 08/20/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/26/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/25/2007  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 06/16/2006  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/16/2006  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Fee Received  
Action Date: 03/31/2006  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Transmittal Received  
Action Date: 03/31/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/07/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 02/03/2006  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/27/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/27/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 01/12/2006  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/23/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106954142**

Action Date: 09/21/2005  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/26/2005  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/12/2005  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 04/01/2005  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 04/01/2005  
Response Action Outcome: Not reported

98  
SW  
> 1  
1.018 mi.  
5373 ft.

**CJ GALLEY PILOT HOUSE**  
**1397-1405 COVE RD**  
**NEW BEDFORD, MA 02740**

**LUST S100830585**  
**RELEASE N/A**

**Relative:**  
**Equal**

LUST:

Facility:

**Actual:**  
**0 ft.**

Facility ID: 4-0001215  
**Facility Status: Release Action Outcome**  
Status Date: 10/01/2004  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 07/15/1993  
Category: NONE  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: B1  
Oil Or Haz Material: Not reported

Chemical:

Chemical: UNKNOWN  
Quantity: Not reported

Location:

Location Type: Not reported

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 09/13/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CJ GALLEY PILOT HOUSE (Continued)**

**S100830585**

Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/04/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/01/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: C&E  
Action Stat: NON  
Action Date: 01/05/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/13/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/15/1993  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:  
Facility ID: 4-0001215  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 07/15/1993  
Category: NONE  
Facility Status: Response Action Outcome  
Status Date: 10/01/2004  
Phase: Not reported  
Rspns Actn Outcome Class: B1  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 09/13/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/04/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CJ GALLEY PILOT HOUSE (Continued)**

**S100830585**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/01/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: C&E  
Action Stat: NON  
Action Date: 01/05/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/13/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/15/1993  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: Not reported

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Not Required, Fee Credited  
Action Date: 09/13/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/04/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/01/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: C&E  
Action Stat: NON  
Action Date: 01/05/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CJ GALLEY PILOT HOUSE (Continued)**

**S100830585**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/13/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/15/1993  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

**U99**  
**South**  
**> 1**  
**1.022 mi.**  
**5394 ft.**

**ROOSEVELT JUNIOR HIGH SCHOOL**  
**120 DENNIS ST**  
**NEW BEDFORD, MA 02744**

**SHWS** **S104482712**  
**RELEASE** **N/A**

**Site 2 of 2 in cluster U**

**Relative:**  
**Higher**

**SHWS:**  
Facility ID: 4-0015174  
Release Town: NEW BEDFORD  
Notification Date: 11/30/1999  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 11/14/2001  
Phase: PHASE II  
Response Action Outcome Class: A1  
Oil Or Haz Material: Hazardous Material

**Actual:**  
**27 ft.**

**Chemical:**  
Chemical: LEAD  
Quantity: 601 parts per million

**Location:**  
Location Type: Not reported

**Source:**  
Source Type: Not reported

**Action:**  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/10/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JUNIOR HIGH SCHOOL (Continued)**

**S104482712**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 12/27/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 02/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 02/25/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JUNIOR HIGH SCHOOL (Continued)**

**S104482712**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 12/28/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0015174  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/30/1999  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 11/14/2001  
Phase: PHASE II  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/10/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JUNIOR HIGH SCHOOL (Continued)**

**S104482712**

to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 12/27/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JUNIOR HIGH SCHOOL (Continued)**

**S104482712**

Action Stat: Fee Received  
Action Date: 02/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 02/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 01/03/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 12/28/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/30/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: LEAD  
Quantity: 601 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/10/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JUNIOR HIGH SCHOOL (Continued)**

**S104482712**

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 11/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/03/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 12/27/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 12/04/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/05/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROOSEVELT JUNIOR HIGH SCHOOL (Continued)**

**S104482712**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure

Action Stat: Fee Received

Action Date: 02/25/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 02/25/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 01/03/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 12/28/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 12/14/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release

Action Stat: REPORT

Action Date: 11/30/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF

Action Stat: REPORT

Action Date: 11/30/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

100  
NE  
> 1  
1.026 mi.  
5418 ft.

**NO LOCATION AID  
88 GREEN ST  
FAIRHAVEN, MA 02719**

**LAST S102088734  
RELEASE N/A**

**Relative:  
Higher**

LAST:  
Facility ID: 4-0012044  
Source Type: AST  
Release Town: FAIRHAVEN  
Notification Date: 03/27/1996  
Category: TWO HR

**Actual:  
19 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S102088734**

Associated ID: Not reported  
**Facility Status:** **Release Action Outcome**  
Status Date: 06/14/1996  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:  
Chemical: OIL  
Quantity: 20 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: AST

Action:  
Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/04/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/01/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S102088734**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/27/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/27/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID: 4-0012044  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 03/27/1996  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 06/14/1996  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/04/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S102088734**

Action Stat: ISSUED  
Action Date: 04/01/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/27/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/27/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: OIL  
Quantity: 20 gallons

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: AST

Action:  
Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S102088734**

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 04/04/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 04/01/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLFLD  
Action Date: 03/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 03/27/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 03/27/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

V101  
NNW  
> 1  
1.054 mi.  
5564 ft.

725 PLEASANT ST  
NEW BEDFORD, MA  
Site 1 of 2 in cluster V

SHWS S104774427  
LUST N/A  
RELEASE  
LEAD

Relative:  
Higher

SHWS:  
Facility ID: 4-0015758  
Release Town: NEW BEDFORD  
Notification Date: 09/14/2000  
Category: 72 HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 01/16/2001  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Oil

Actual:  
59 ft.

Chemical:  
Chemical: FUEL OIL  
Quantity: 128 parts per million

Location:  
Location Type: RESIDENTIAL

Source:  
Source Type: UST  
Source Type: PIPE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104774427

Action:

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 06/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 03/12/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/16/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104774427

Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LUST:

Facility:

Facility ID: 4-0015758  
**Facility Status: Release Action Outcome**  
Status Date: 01/16/2001  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 09/14/2000  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:

Chemical: FUEL OIL  
Quantity: 128 parts per million

Location:

Location Type: RESIDENTIAL

Source:

Source Type: UST  
Source Type: PIPE

Action:

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 06/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 03/12/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/20/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104774427

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/16/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0015758  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/14/2000  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 01/16/2001  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 06/04/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/09/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104774427

to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/26/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 03/12/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/20/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/16/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/06/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: FUEL OIL  
Quantity: 128 parts per million

Location:  
Location Type: RESIDENTIAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104774427

Source:

Source Type: UST  
Source Type: PIPE

Action:

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 06/04/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 05/09/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/26/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 03/12/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 03/20/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/16/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/14/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/06/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/14/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S104774427

to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 09/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LEAD:

Community: New Bedford  
Unit: 604  
Inspector Name: Ray Freuden  
Inspector License Number: 1105  
Activity Type: INSPECT  
Activity Date: 5/24/2001  
Start Work Date: Not reported  
Activity Descriptions: Comprehensive Initial Inspection  
Outcomes: Hazards Found

Community: New Bedford  
Unit: M-1  
Inspector Name: Ray Freuden  
Inspector License Number: 1105  
Activity Type: INSPECT  
Activity Date: 5/24/2001  
Start Work Date: Not reported  
Activity Descriptions: Comprehensive Initial Inspection  
Outcomes: Hazards Found

V102  
NNW  
> 1  
1.060 mi.  
5596 ft.

NO LOCATION AID  
800 PLEASANT ST  
NEW BEDFORD, MA  
Site 2 of 2 in cluster V

SHWS S107517267  
RELEASE N/A

Relative:  
Higher

SHWS:  
Facility ID: 4-0019457  
Release Town: NEW BEDFORD  
Notification Date: 11/08/2005  
Category: 120 DY  
Associated ID: Not reported  
**Compliance Status:** Release Action Outcome  
Status Date: 01/26/2009  
Phase: PHASE II  
Response Action Outcome Class: B1  
Oil Or Haz Material: Oil

Actual:  
60 ft.

Chemical:  
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS  
Quantity: 245 parts per million  
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS  
Quantity: 1.89 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S107517267**

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/11/2009  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/26/2009  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/27/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/18/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/08/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/08/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S107517267**

Release:

Facility ID: 4-0019457  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 11/08/2005  
Category: 120 DY  
Facility Status: Response Action Outcome  
Status Date: 01/26/2009  
Phase: PHASE II  
Rspns Actn Outcome Class: B1  
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/11/2009  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/26/2009  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/27/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/18/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S107517267**

Action Date: 11/08/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/08/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:  
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS  
Quantity: 245 parts per million  
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS  
Quantity: 1.89 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 03/11/2009  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/26/2009  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 10/27/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 07/22/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S107517267**

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 01/18/2008  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release  
Action Stat: REPORT  
Action Date: 11/08/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/08/2005  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

103  
NNE  
> 1  
1.064 mi.  
5619 ft.

**CUMBERLAND FARMS  
68 MAIN ST  
FAIRHAVEN, MA 02719**

**LUST S102088257  
RELEASE N/A**

**Relative:  
Higher**

LUST:

Facility:

**Actual:  
22 ft.**

Facility ID: 4-0010994  
**Facility Status: Release Action Outcome**  
Status Date: 10/16/1995  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 12/19/1994  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil Or Haz Material: Oil

Chemical:

Chemical: GASOLINE  
Quantity: 114 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/16/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/27/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 12/27/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/27/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 12/19/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility:

Facility ID: 4-0013376  
**Facility Status: Release Action Outcome**  
Status Date: 01/03/2009  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 09/22/1997  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:

Chemical: GASOLINE  
Quantity: 190 parts per million

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 12/10/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Stat: Level I - Technical Screen Audit  
Action Date: 07/01/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/03/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 01/02/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Action, Status, or AUL Terminated  
Action Date: 11/20/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 06/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 12/07/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 12/07/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 05/16/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 05/16/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 11/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 05/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/10/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 09/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Level II - Audit Inspection  
Action Date: 09/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 08/26/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/25/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/29/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Stat: IMRCD  
Action Date: 05/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/25/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 05/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/17/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 12/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 09/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 09/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 03/01/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/02/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Stat: ISSUED  
Action Date: 09/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0010994  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 12/19/1994  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 10/16/1995  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/27/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 12/27/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Date: 12/27/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 12/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: GASOLINE  
Quantity: 114 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Fee Received  
Action Date: 10/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 12/27/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 12/27/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/27/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 12/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Facility ID: 4-0013376  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 09/22/1997  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 01/03/2009  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 12/10/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/01/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/03/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 01/02/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Action, Status, or AUL Terminated  
Action Date: 11/20/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 06/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 12/07/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 12/07/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 05/16/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 05/16/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 11/17/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 05/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/10/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 09/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Level II - Audit Inspection  
Action Date: 09/20/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Stat: FLDRUN  
Action Date: 08/26/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/25/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/29/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/25/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 05/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/17/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 12/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 09/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 09/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 03/01/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Stat: Status Report Received  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/02/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: GASOLINE  
Quantity: 190 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 12/10/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 07/01/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 01/03/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 01/02/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Action, Status, or AUL Terminated  
Action Date: 11/20/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 06/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 06/16/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 12/07/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 12/07/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 05/16/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 05/16/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/17/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 11/17/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 05/26/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/10/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNVD  
Action Date: 09/20/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Level II - Audit Inspection  
Action Date: 09/20/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 08/26/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/25/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/29/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/14/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/25/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 05/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/30/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 11/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 05/17/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 12/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 12/12/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 09/29/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 09/29/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 03/01/2000

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 09/25/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 09/25/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/25/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 06/15/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/15/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/28/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/02/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/24/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S102088257**

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**104  
West  
> 1  
1.070 mi.  
5652 ft.**

**ST LUKES HOSPITAL  
101 PAGE STREET  
NEW BEDFORD, MA 02740**

**RCRA-SQG 1000292893  
FINDS MAD075704932  
SHWS  
MANIFEST  
RELEASE  
SPILLS  
AIRS  
FINANCIAL ASSURANCE**

**Relative:  
Higher**

**Actual:  
65 ft.**

RCRA-SQG:  
Date form received by agency: 10/02/2007  
Facility name: ST LUKES HOSPITAL  
Facility address: 101 PAGE ST  
NEW BEDFORD, MA 02740  
EPA ID: MAD075704932  
Contact: ANTONIO PACHECO  
Contact address: 101 PAGE ST  
NEW BEDFORD, MA 027400000  
Contact country: US  
Contact telephone: (508) 961-5140  
Contact email: Not reported  
EPA Region: 01  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: SOUTHCOAST HOSPITALS GROUP  
Owner/operator address: 101 PAGE ST  
NEW BEDFORD, MA 02740  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 06/09/1996  
Owner/Op end date: Not reported

Owner/operator name: SOUTHCOAST HOSPITALS GROUP  
Owner/operator address: 101 PAGE ST  
NEW BEDFORD, MA 02740

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ST LUKES HOSPITAL (Continued)**

**1000292893**

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/09/1996  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 08/06/1980  
Facility name: ST LUKES HOSPITAL  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ST LUKES HOSPITAL (Continued)**

**1000292893**

Waste code: D004  
Waste name: ARSENIC

Waste code: D008  
Waste name: LEAD

Waste code: D009  
Waste name: MERCURY

Waste code: D011  
Waste name: SILVER

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: MA01  
Waste name: WASTE OIL

Waste code: MA95  
Waste name: UNIVERSAL WASTE

Waste code: MA99  
Waste name: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Violation Status: No violations found

**Evaluation Action Summary:**

Evaluation date: 08/16/2006  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/10/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110002383769

**Environmental Interest/Information System**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of

Map ID  
Direction  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**ST LUKES HOSPITAL (Continued)**

**1000292893**

Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

**SHWS:**

Facility ID: 4-0013989  
Release Town: NEW BEDFORD  
Notification Date: 06/26/1998  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 10/28/1998  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Hazardous Material

**Chemical:**

Chemical: FREON 12  
Quantity: Not reported

**Location:**

Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

**Source:**

Source Type: Not reported

**Action:**

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ST LUKES HOSPITAL (Continued)**

**1000292893**

Action Type: Release  
Action Stat: RETRAC  
Action Date: 07/27/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**MANIFEST:**

GEN Cert Date: 8/6/2008  
Transporter Recpt Date: 8/6/2008  
Number Of Containers: 2  
Container Type: R004MA99  
Waste Code1: NONE  
Waste Code2: T04  
Waste Code3: Not reported  
Comment: gen date approx  
Fee Exempt Code: Not reported  
TSDf Name: NORTHLAND ENVIRONMENTAL, INC  
TSDf ID: RIP000005381  
TSDf Date: 8/6/2008  
Date Imported: 9/8/1994  
Transporter 2 Name: Not reported  
Transporter 2 ID: Not reported  
Manifest Docket Number: Not reported  
Waste Description: Not reported  
Quantity: Not reported  
WT/Vol Units: Not reported  
Item Number: Not reported  
Transporter Name: Not reported  
Transporter EPA ID: Not reported  
GEN Cert Date: Not reported  
Transporter Recpt Date: Not reported  
Transporter 2 Recpt Date: Not reported  
TSDf Recpt Date: Not reported  
EPA ID: Not reported  
Transporter 2 ID: Not reported

Map ID  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ST LUKES HOSPITAL (Continued)**

**1000292893**

Release:

Facility ID: 4-0013989  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 06/26/1998  
Category: TWO HR  
Facility Status: Response Action Outcome  
Status Date: 10/28/1998  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: RETRAC  
Action Date: 07/27/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical: FREON 12  
Quantity: Not reported

Location:

Location Type: RESIDENTIAL  
Location Type: COMMERCIAL

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ST LUKES HOSPITAL (Continued)

1000292893

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 10/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: RETRAC  
Action Date: 07/27/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 06/26/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

MA Spills:

Facility ID:	0000	Spill ID:	S92-0766
Staff Lead:	BRENNAN, S	Date Entered:	19930922
Last Entered:	19930922	First Response:	19921023
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19921023	Report Time:	09:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	101-250	Qty Actual:	UNKNOWN
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ST LUKES HOSPITAL (Continued)

1000292893

Referral: NO  
Report Prep: Not reported  
Notifier: MIKE DEROSA/WEB ENG ASSOC  
Notif Tel: Not reported  
Days/Close: 0

LUST Elig: NO  
Category: Not reported

Facility ID: 0000  
Staff Lead: BRENNAN, S  
Last Entered: 19930922  
Spill Date: 19921113  
Report Date: 19921113  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: SOIL  
Material: DIESEL FUEL  
Qty Reported: -----  
Qty Reported: -----  
CAS No: Not reported  
Source: U.S.T.  
Incident: TANK REMOVAL  
Cleanup Type: ---  
Referral: NO  
Report Prep: Not reported  
Notifier: MIKE DEROSA/WEB ENG  
Notif Tel: Not reported  
Days/Close: 0

Spill ID: S92-0821  
Date Entered: 19930922  
First Response: 19921113  
Spill Time: 12:05PM  
Report Time: 12:15PM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: -----  
Qty Actual: -----  
PCB Lev (ppm): NONE  
Other Source: Not reported  
Other Incdnt: Not reported  
Contractor: NOT USED  
LUST Elig: NO  
Category: Not reported

Facility ID: 0000  
Staff Lead: BRENNAN, S  
Last Entered: 19930922  
Spill Date: 19921113  
Report Date: 19921113  
Case Closed: YES  
Virgin Waste: VIRGIN  
Env Impact: SOIL  
Material: DIESEL FUEL  
Qty Reported: -----  
Qty Reported: -----  
CAS No: Not reported  
Source: U.S.T.  
Incident: OTHER RELEASE >  
Cleanup Type: ---  
Referral: NO  
Report Prep: Not reported  
Notifier: STEVE RUMBA/WEB ENG  
Notif Tel: Not reported  
Days/Close: 0

Spill ID: S92-0825  
Date Entered: 19930922  
First Response: 19921113  
Spill Time: 12:15PM  
Report Time: 12:35PM  
Mat Type: PETROLEUM  
Contam Soil: Not reported  
Other Impact: Not reported  
Other Material: Not reported  
Qty Actual: -----  
Qty Actual: -----  
PCB Lev (ppm): NONE  
Other Source: Not reported  
Other Incdnt: CLOSURE  
Contractor: NOT USED  
LUST Elig: NO  
Category: Not reported

AIRS:

Facility Status: APPROV  
Permit Code: AQ09  
Permit Name: Permit Restrictions/Restricted Emission Status  
DEP Region: SE  
Application Tracking Number: 207031  
Date Closed: 3/2/2000  
DEP Region Number: 54318  
Applicant Name: SOUTHCOAST HOSPITAL GROUP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ST LUKES HOSPITAL (Continued)**

**1000292893**

Applicant Address: 101 PAGE ST  
Applicant City,St,Zip: NEW BEDFORD, MA 027413000  
Applicant Telephone: 5089971515

FINASS2:  
Facility Id: 22694  
Description: Hospital  
Work Phone: (508) 961-5151  
Financial Resp: Commercial,

**W105  
NNE  
> 1  
1.074 mi.  
5669 ft.**

**PARK MOTORS  
67 MIDDLE ST  
FAIRHAVEN, MA 02719**

**LUST S100831026  
RELEASE N/A**

**Site 1 of 4 in cluster W**

**Relative:  
Higher**

LUST:  
Facility:  
Facility ID: 4-0000337  
**Facility Status: Release Action Outcome**  
Status Date: 09/15/1997  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 07/03/1986  
Category: NONE  
Associated ID: Not reported  
Phase: PHASE II  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Not reported

**Actual:  
22 ft.**

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/15/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/09/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARK MOTORS (Continued)**

**S100831026**

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/03/1986  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/03/1986  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0000337  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 07/03/1986  
Category: NONE  
Facility Status: Response Action Outcome  
Status Date: 09/15/1997  
Phase: PHASE II  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Not reported

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/15/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/09/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARK MOTORS (Continued)**

**S100831026**

Action Stat: LSPFA  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/03/1986  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/03/1986  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 09/15/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/09/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARK MOTORS (Continued)**

**S100831026**

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/08/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 07/03/1986  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 07/03/1986  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**W106**  
**NNE**  
**> 1**  
**1.074 mi.**  
**5669 ft.**

**NO LOCATION AID**  
**67-69 MIDDLE ST**  
**FAIRHAVEN, MA 02719**

**SHWS** **S106776009**  
**RELEASE** **N/A**

**Site 2 of 4 in cluster W**

**Relative:**  
**Higher**

**SHWS:**

Facility ID: 4-0018738  
Release Town: FAIRHAVEN  
Notification Date: 10/21/2004  
Category: 120 DY  
Associated ID: 4-0018738

**Actual:**  
**22 ft.**

**Compliance Status:** **Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**

Status Date: 09/12/2008  
Phase: PHASE II  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

**Chemical:**

Chemical: ARSENIC  
Quantity: 66 parts per million  
Chemical: LEAD GASOLINE  
Quantity: 24600 parts per million

**Location:**

Location Type: Not reported

**Source:**

Source Type: Not reported

**Action:**

Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Type: Phase I  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 11/13/2007  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/24/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/30/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/19/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/16/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Date: 05/15/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/01/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/21/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 12/22/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 12/20/2004  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 12/20/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/10/2004  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/21/2004  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/21/2004  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0018738  
Primary ID: 4-0018738  
Official City: FAIRHAVEN  
Notification: 10/21/2004  
Category: 120 DY  
Facility Status: TIERII  
Status Date: 09/12/2008  
Phase: PHASE II  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 11/13/2007  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/24/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/30/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/19/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/16/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/15/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/01/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/21/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 12/22/2004  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 12/20/2004  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 12/20/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Date: 12/10/2004  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/21/2004  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/21/2004  
Response Action Outcome: Not reported

Chemical:  
Chemical: ARSENIC  
Quantity: 66 parts per million  
Chemical: LEAD GASOLINE  
Quantity: 24600 parts per million

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 11/13/2007  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 07/24/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/30/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 10/19/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/16/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 05/15/2006  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/01/2006  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S106776009**

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/27/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/21/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 12/22/2004  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 12/20/2004  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 12/20/2004  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 12/10/2004  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 10/21/2004  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/21/2004  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**W107**      **FORMER PARK MOTORS**  
**NNE**        **67-69 MIDDLE ST**  
**> 1**         **FAIRHAVEN, MA 02719**  
**1.074 mi.**  
**5669 ft.**    **Site 3 of 4 in cluster W**

**SHWS**    **S108858879**  
**RELEASE**    **N/A**

**Relative:**  
**Higher**

**SHWS:**  
Facility ID: 4-0020775  
Release Town: FAIRHAVEN  
Notification Date: 09/10/2007  
Category: 120 DY  
Associated ID: 4-0018738  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 09/12/2008  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

**Actual:**  
**22 ft.**

**Chemical:**  
Chemical: TPH  
Quantity: 4380 milligrams per kilogram

**Location:**  
Location Type: Not reported

**Source:**  
Source Type: Not reported

**Action:**  
Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/19/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 09/17/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/11/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Facility ID: 4-0021046  
Release Town: FAIRHAVEN  
Notification Date: 02/14/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Category: 120 DY  
Associated ID: 4-0018738  
**Compliance Status: Response Action Outcome Not Required**  
Status Date: 09/12/2008  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Hazardous Material

Chemical:  
Chemical: CADMIUM  
Quantity: 2.21 milligrams per kilogram  
Chemical: ARSENIC  
Quantity: 105 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/14/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0020775  
Primary ID: 4-0018738  
Official City: FAIRHAVEN  
Notification: 09/10/2007  
Category: 120 DY  
Facility Status: Response Action Outcome Not Required  
Status Date: 09/12/2008  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/19/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 09/17/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 09/11/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Chemical:  
Chemical: TPH  
Quantity: 4380 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Tier Classification  
Action Stat: Level 1 - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/19/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 09/17/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Level I - Technical Screen Audit  
Action Date: 09/11/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 09/10/2007  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Facility ID: 4-0021046  
Primary ID: 4-0018738  
Official City: FAIRHAVEN  
Notification: 02/14/2008  
Category: 120 DY  
Facility Status: Response Action Outcome Not Required  
Status Date: 09/12/2008  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Hazardous Material

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Action:

Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Chemical:  
Chemical: CADMIUM  
Quantity: 2.21 milligrams per kilogram  
Chemical: ARSENIC  
Quantity: 105 milligrams per kilogram

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Tier Classification  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/09/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/12/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVTC  
Action Date: 09/11/2008  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER PARK MOTORS (Continued)**

**S108858879**

Action Stat: REPORT  
Action Date: 02/14/2008  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Legal Notice Published  
Action Date: 11/01/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 10/27/2005  
Response Action Outcome: Not reported

**W108 BOATING CLUB**  
**NNE 80 MIDDLE ST**  
**> 1 FAIRHAVEN, MA 02719**  
**1.098 mi.**  
**5799 ft. Site 4 of 4 in cluster W**

**SHWS S103384029**  
**LUST N/A**  
**RELEASE**

**Relative:**  
**Higher**

**Actual:**  
**9 ft.**

SHWS:  
Facility ID: 4-0013935  
Release Town: FAIRHAVEN  
Notification Date: 06/10/1998  
Category: 72 HR  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**  
Status Date: 07/23/2001  
Phase: PHASE III  
Response Action Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: GASOLINE  
Quantity: 10 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/23/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 07/23/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOATING CLUB (Continued)**

**S103384029**

reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOATING CLUB (Continued)**

**S103384029**

Action Stat: REPORT  
Action Date: 06/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:

Facility ID: 4-0013935  
**Facility Status: Release Action Outcome**  
Status Date: 07/23/2001  
Source Type: UST  
Release Town: FAIRHAVEN  
Notification Date: 06/10/1998  
Category: 72 HR  
Associated ID: Not reported  
Phase: PHASE III  
Rspsn Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:

Chemical: GASOLINE  
Quantity: 10 gallons

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST  
Source Type: PIPE

Action:

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/23/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 07/23/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOATING CLUB (Continued)**

**S103384029**

Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0013935  
Primary ID: Not reported  
Official City: FAIRHAVEN  
Notification: 06/10/1998  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 07/23/2001  
Phase: PHASE III  
Rspns Actn Outcome Class: A2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOATING CLUB (Continued)**

**S103384029**

Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Action Date: 07/23/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II

Action Stat: Completion Statement Received

Action Date: 07/23/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Action Stat: Transmittal Received

Action Date: 06/17/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Status Report Received

Action Date: 06/17/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I

Action Stat: Completion Statement Received

Action Date: 06/17/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Action Stat: Tier 2 Classification

Action Date: 06/17/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Imminent Hazard Evaluation Received

Action Date: 01/14/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 01/14/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Status Report Received

Action Date: 01/14/1999

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOATING CLUB (Continued)**

**S103384029**

Action Stat: IRA Assessment Only  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:  
Chemical: GASOLINE  
Quantity: 10 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST  
Source Type: PIPE

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/23/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 07/23/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOATING CLUB (Continued)**

**S103384029**

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/17/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 01/14/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 06/15/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 06/10/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

109  
SW  
> 1  
1.107 mi.  
5846 ft.

**GETTY**  
**30 ROCKDALE AVE**  
**NEW BEDFORD, MA 02740**

**LUST** **U000230791**  
**UST** **N/A**  
**RELEASE**  
**FINANCIAL ASSURANCE**

**Relative:**  
**Higher**

LUST:

Facility:

**Actual:**  
**2 ft.**

Facility ID: 4-0000484  
**Facility Status: Release Action Outcome**  
Status Date: 06/05/2006  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 01/15/1988

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Category: NONE  
Associated ID: Not reported  
Phase: PHASE V  
Rspsn Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Chemical:  
Chemical: VOCS  
Quantity: Not reported

Location:  
Location Type: GASSTATION

Source:  
Source Type: UST

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 06/25/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 06/25/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 05/15/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 05/15/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/18/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/21/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/05/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 06/05/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/03/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 04/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/06/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/25/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/28/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 07/30/2001

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 06/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 08/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 06/23/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 03/03/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 03/03/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 02/18/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 11/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 11/16/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 10/30/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 09/28/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 09/02/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/21/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 09/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 09/17/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/23/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/06/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/15/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/14/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 06/06/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/04/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 07/16/1993

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 07/16/1993

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/20/1989

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/23/1987

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:  
Facility ID: 3458  
Facility:  
Owner Id: 139

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Owner: GETTY PETROLEUM MARKETING INC  
Owner Address: DEXTER RD & MASSASOIT AVE  
Owner City,St,Zip: EAST PROVIDENCE, RI 02914  
Telephone: (401) 434-1322  
Description: Gas Station  
Fire Dept. ID: 5201  
Date of Inspection: Not reported  
Inspector: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported

Tank ID: 1  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Inventory Record-Keeping  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000  
Contents: Gasoline

Tank ID: 2  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Inventory Record-Keeping  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 8000  
Contents: Gasoline

Tank ID: 3  
**Tank Status:** **Removed**  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Inventory Record-Keeping  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 4000  
Contents: Gasoline

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GETTY (Continued)

U000230791

Tank ID: 4  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Steel  
Tank Contents: Not reported  
Tank Leak Detection: Inventory Record-Keeping  
Pipe Material: Steel  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 2000  
Contents: Diesel

Tank ID: 5  
**Tank Status:** Removed  
Tank Useage: Not reported  
Tank Material: Not reported  
Tank Contents: Not reported  
Tank Leak Detection: Not reported  
Pipe Material: Not reported  
Pipe Container: Not reported  
Pipe Leak Detection: Not reported  
Serial Number: Not reported  
Aboveground: No  
Capacity: 5000  
Contents: Not reported

Tank ID: 6  
**Tank Status:** In Use  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 12000  
Contents: Gasoline

Tank ID: 7  
**Tank Status:** In Use  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 12000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Contents: Gasoline

Tank ID: 8  
**Tank Status: In Use**  
Tank Useage: MV  
Tank Material: Reinforced  
Tank Contents: 2 Walls  
Tank Leak Detection: Interstitial Monitoring  
Pipe Material: Reinforced  
Pipe Container: 2 Walls  
Pipe Leak Detection: Interstitial Space Monitor  
Serial Number: Not reported  
Aboveground: No  
Capacity: 12000  
Contents: Gasoline

Release:

Facility ID: 4-0000484  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/15/1988  
Category: NONE  
Facility Status: Response Action Outcome  
Status Date: 06/05/2006  
Phase: PHASE V  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:

Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 06/25/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 06/25/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 05/15/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 05/15/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 12/18/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 06/21/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 06/05/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 06/05/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/03/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 04/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/06/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/25/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/28/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 07/30/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 06/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 08/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 06/23/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 03/03/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 03/03/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 02/18/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 11/25/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 11/16/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 10/30/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 09/28/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 09/02/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/21/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 09/22/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 09/17/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/23/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/06/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 06/06/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/04/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 07/16/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 07/16/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/20/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 09/23/1987

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:

Chemical: VOCS

Quantity: Not reported

Location:

Location Type: GASSTATION

Source:

Source Type: UST

Action:

Action Type: AUDCOM

Action Stat: Audit Follow-up Completion Statement Received

Action Date: 06/25/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: Revised Statement or Transmittal Received

Action Date: 06/25/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: Action Audited

Action Date: 05/15/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM

Action Stat: NAFNON

Action Date: 05/15/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM

Action Stat: NOA

Action Date: 12/18/2008

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: Level I - Technical Screen Audit

Action Date: 06/21/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

Action Stat: RAO Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Date: 06/05/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 06/05/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/15/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 09/03/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 04/28/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/06/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/25/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 07/29/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/28/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 07/30/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 06/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 08/25/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 06/23/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 03/03/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 03/03/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 02/18/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E  
Action Stat: INTLET  
Action Date: 11/25/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 11/16/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 10/30/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFVIO  
Action Date: 09/28/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 09/02/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/21/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 09/22/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 09/17/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 04/23/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/06/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/15/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/15/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: LSPFA  
Action Date: 08/14/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 06/06/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 06/04/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVREC  
Action Date: 07/16/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS  
Action Stat: WAVDN  
Action Date: 07/16/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/20/1989  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/23/1987  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FINASS2:  
Facility Id: 3458

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GETTY (Continued)**

**U000230791**

Description: Gas Station  
Work Phone: (401) 434-1322  
Financial Resp: State Fund, Normal

**X110**  
**North**  
**> 1**  
**1.112 mi.**  
**5873 ft.**

**NIEMIEC MARINE**  
**173 POPES IS**  
**NEW BEDFORD, MA 02740**

**SHWS** **S108640722**  
**RELEASE** **N/A**

**Site 1 of 3 in cluster X**

**Relative:**  
**Equal**

**SHWS:**

**Actual:**  
**0 ft.**

Facility ID: 4-0020495  
Release Town: NEW BEDFORD  
Notification Date: 05/10/2007  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**  
Status Date: 05/19/2008  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

**Chemical:**

Chemical: DIESEL FUEL  
Quantity: 30 gallons

**Location:**

Location Type: COMMERCIAL

**Source:**

Source Type: BOAT

**Action:**

Action Type: C&E  
Action Stat: NON  
Action Date: 12/17/2009  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/18/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/10/2007  
Response Action Outcome: Not reported

**Release:**

Facility ID: 4-0020495  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/10/2007  
Category: TWO HR  
Facility Status: TIER1D  
Status Date: 05/19/2008  
Phase: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NIEMIEC MARINE (Continued)**

**S108640722**

Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 12/17/2009  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/18/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/10/2007  
Response Action Outcome: Not reported

Chemical:  
Chemical: DIESEL FUEL  
Quantity: 30 gallons

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: BOAT

Action:  
Action Type: C&E  
Action Stat: NON  
Action Date: 12/17/2009  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/18/2007  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/10/2007  
Response Action Outcome: Not reported

X111  
North  
> 1  
1.117 mi.  
5896 ft.

**RIVERSIDE COMPLEX FMR  
POPESS IS  
NEW BEDFORD, MA 02740**  
**Site 2 of 3 in cluster X**

**SHWS S100361787  
RELEASE N/A**

**Relative:  
Equal**

SHWS:  
Facility ID: 4-0000459  
Release Town: NEW BEDFORD  
Notification Date: 01/15/1988  
Category: NONE  
Associated ID: Not reported  
**Compliance Status: Release Action Outcome**

**Actual:  
0 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COMPLEX FMR (Continued)**

**S100361787**

Status Date: 07/30/1996  
Phase: Not reported  
Response Action Outcome Class: A1  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: Not reported

Source:  
Source Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:  
Facility ID: 4-0000459  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 01/15/1988  
Category: NONE  
Facility Status: Response Action Outcome  
Status Date: 07/30/1996  
Phase: Not reported  
Rspns Actn Outcome Class: A1  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RIVERSIDE COMPLEX FMR (Continued)

S100361787

Location Type: Not reported  
Source:  
Source Type: Not reported  
Action:  
Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 07/30/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
  
Action Type: Release  
Action Stat: TCTRNS  
Action Date: 01/15/1988  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

X112  
North  
> 1  
1.117 mi.  
5896 ft.

NO LOCATION AID  
POPES IS  
NEW BEDFORD, MA  
Site 3 of 3 in cluster X

SHWS S100361773  
LUST N/A  
RELEASE

Relative:  
Equal

SHWS:  
Facility ID: 4-0016591  
Release Town: NEW BEDFORD  
Notification Date: 09/25/2001  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 09/25/2001  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: GASOLINE  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: BOAT

Action:  
Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 10/23/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/23/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/25/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Facility ID: 4-0017357  
Release Town: NEW BEDFORD  
Notification Date: 09/16/2002  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 09/17/2002  
Phase: Not reported  
Response Action Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: OILY SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/17/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/16/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/16/2002  
Response Action Outcome: Not reported

Facility ID: 4-0017344  
Release Town: NEW BEDFORD  
Notification Date: 09/15/2002  
Category: TWO HR  
Associated ID: Not reported  
**Compliance Status: Adequately Regulated**  
Status Date: 09/15/2002  
Phase: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Response Action Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: OIL SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

LUST:

Facility:  
Facility ID: 4-0000125  
**Facility Status: No Further Action (DEP Determined)**  
Status Date: 07/23/1993  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 05/08/1986  
Category: NONE  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Not reported

Chemical:  
Chemical: UNKNOWN  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: TREGS  
Action Stat: DEPNFA  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Action Type: TREGS  
Action Stat: REMSIT  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/08/1986  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 05/08/1986  
Response Action Outcome: Not reported

Release:

Facility ID: 4-0000125  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/08/1986  
Category: NONE  
Facility Status: DEP No Further Action  
Status Date: 07/23/1993  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:

Action Type: TREGS  
Action Stat: DEPNFA  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: REMSIT  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/08/1986  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 05/08/1986  
Response Action Outcome: Not reported

Chemical:

Chemical: UNKNOWN  
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Action:

Action Type: TREGS  
Action Stat: DEPNFA  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Stat: REMSIT  
Action Date: 07/23/1993  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/08/1986  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: TCTRNS  
Action Date: 05/08/1986  
Response Action Outcome: Not reported

Facility ID: 4-0016591  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/25/2001  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 09/25/2001  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 10/23/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/23/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/25/2001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Response Action Outcome: Not reported

Chemical:  
Chemical: GASOLINE  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: BOAT

Action:  
Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 10/23/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/23/2001  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/25/2001  
Response Action Outcome: Not reported

Facility ID: 4-0017344  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/15/2002  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 09/15/2002  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/15/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Chemical:  
Chemical: OIL SHEEN  
Quantity: Not reported

Location:  
Location Type: WATERBODY

Source:  
Source Type: UNKNOWN

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/15/2002  
Response Action Outcome: Not reported

Facility ID: 4-0017357  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 09/16/2002  
Category: TWO HR  
Facility Status: ADQREG  
Status Date: 09/17/2002  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Not reported

Action:  
Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/17/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/16/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/16/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S100361773**

Response Action Outcome: Not reported

Chemical:

Chemical: OILY SHEEN  
Quantity: Not reported

Location:

Location Type: WATERBODY

Source:

Source Type: UNKNOWN

Action:

Action Type: Response Action Outcome Not Required  
Action Stat: USCG  
Action Date: 09/17/2002  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FLDD1U  
Action Date: 09/16/2002  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 09/16/2002  
Response Action Outcome: Not reported

113  
WSW  
> 1  
1.120 mi.  
5914 ft.

**M&P AUTO SERVICE  
364 DARTMOUTH ST  
NEW BEDFORD, MA**

**LUST S102967643  
RELEASE N/A**

**Relative:  
Higher**

LUST:

Facility:

Facility ID: 4-0017982  
**Facility Status: Response Action Outcome Not Required**  
Status Date: 12/19/2003  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 08/21/2003  
Category: 72 HR  
Associated ID: 4-0013436  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

**Actual:  
44 ft.**

Chemical:

Chemical: VOCS  
Quantity: 100 parts per million  
Chemical: GASOLINE  
Quantity: Not reported

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action:

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/10/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 12/09/2003  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/19/2003  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/21/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/21/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/19/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Stat: Transmittal Received  
Action Date: 06/19/2003  
Response Action Outcome: Not reported

Facility:

Facility ID: 4-0013436  
**Facility Status: Release Action Outcome**  
Status Date: 12/19/2003  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 10/20/1997  
Category: 72 HR  
Associated ID: 4-0013436  
Phase: PHASE IV  
Rspns Actn Outcome Class: C2  
Oil Or Haz Material: Oil

Chemical:

Chemical: GASOLINE  
Quantity: 1

Location:

Location Type: COMMERCIAL

Source:

Source Type: UST

Action:

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/06/2010  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/10/2009  
Response Action Outcome: C2

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 08/10/2009  
Response Action Outcome: C2

Action Type: C&E  
Action Stat: NON  
Action Date: 06/30/2009  
Response Action Outcome: C2

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/30/1999  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/08/1999  
Response Action Outcome: C2

Action Type: Release Abatement Measure  
Action Stat: Fee Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Date: 01/21/1999  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/24/1998  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1997  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 10/20/1997  
Response Action Outcome: C2

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/20/1997  
Response Action Outcome: C2

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/20/1997  
Response Action Outcome: C2

Release:  
Facility ID: 4-0013436  
Primary ID: 4-0013436  
Official City: NEW BEDFORD  
Notification: 10/20/1997  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 12/19/2003  
Phase: PHASE IV  
Rspns Actn Outcome Class: C2  
Oil / Haz Material Type: Oil

Action:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/06/2010  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/10/2009  
Response Action Outcome: C2

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 08/10/2009  
Response Action Outcome: C2

Action Type: C&E  
Action Stat: NON  
Action Date: 06/30/2009  
Response Action Outcome: C2

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase IV  
Action Stat: Written Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/30/1999  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/08/1999  
Response Action Outcome: C2

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 01/21/1999  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/24/1998  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1997  
Response Action Outcome: C2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 10/20/1997  
Response Action Outcome: C2

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/20/1997  
Response Action Outcome: C2

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/20/1997  
Response Action Outcome: C2

Chemical:  
Chemical: GASOLINE  
Quantity: 1

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 01/06/2010  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/10/2009  
Response Action Outcome: C2

Action Type: Response Action Outcome  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 08/10/2009  
Response Action Outcome: C2

Action Type: C&E  
Action Stat: NON  
Action Date: 06/30/2009  
Response Action Outcome: C2

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase III  
Action Stat: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase IV  
Action Stat: Modified, Revised, or Updated Plan Received  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 12/19/2003  
Response Action Outcome: C2

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/19/2003  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 06/30/1999  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/08/1999  
Response Action Outcome: C2

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 01/21/1999  
Response Action Outcome: C2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 09/24/1998  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: RNF  
Action Stat: REPORT  
Action Date: 11/21/1997  
Response Action Outcome: C2

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 10/24/1997  
Response Action Outcome: C2

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 10/20/1997  
Response Action Outcome: C2

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/20/1997  
Response Action Outcome: C2

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/20/1997  
Response Action Outcome: C2

Facility ID: 4-0017982  
Primary ID: 4-0013436  
Official City: NEW BEDFORD  
Notification: 08/21/2003  
Category: 72 HR  
Facility Status: Response Action Outcome Not Required  
Status Date: 12/19/2003  
Phase: Not reported  
Rspns Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:  
Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/10/2009  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 12/09/2003  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/19/2003  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/21/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/21/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/19/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/19/2003  
Response Action Outcome: Not reported

Chemical:  
Chemical: VOCS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Quantity: 100 parts per million  
Chemical: GASOLINE  
Quantity: Not reported

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: Tier Classification  
Action Stat: Tier 2 Extension  
Action Date: 08/10/2009  
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required  
Action Stat: Related to a Tier Classified Site  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: LNKVIC  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Imminent Hazard Evaluation Received  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 12/19/2003  
Response Action Outcome: Not reported

Action Type: C&E  
Action Stat: NON  
Action Date: 12/09/2003  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/19/2003  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 08/21/2003  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 08/21/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**M&P AUTO SERVICE (Continued)**

**S102967643**

Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 06/19/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 06/19/2003  
Response Action Outcome: Not reported

Y114  
NW  
> 1  
1.121 mi.  
5919 ft.

**CUMBERLAND FARMS  
486 COUNTY ST  
NEW BEDFORD, MA**  
**Site 1 of 2 in cluster Y**

**LUST S106343877  
RELEASE N/A**

**Relative:  
Higher**

LUST:

**Actual:  
106 ft.**

Facility:  
Facility ID: 4-0015802  
**Facility Status: Downgradient Property Status**  
Status Date: 10/15/2001  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 10/06/2000  
Category: 72 HR  
Associated ID: Not reported  
Phase: PHASE II  
Rspns Actn Outcome Class: Not reported  
Oil Or Haz Material: Oil

Chemical:  
Chemical: GASOLINE  
Quantity: 1 inches

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 06/11/2008  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Fee Received  
Action Date: 10/19/2001  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Transmittal Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S106343877**

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/12/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 02/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/08/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/04/2000  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/04/2000  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/10/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Release:  
Facility ID: 4-0015802  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 10/06/2000  
Category: 72 HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S106343877**

Facility Status: Downgradient Property Status  
Status Date: 10/15/2001  
Phase: PHASE II  
Rsps Actn Outcome Class: Not reported  
Oil / Haz Material Type: Oil

Action:

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 06/11/2008  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Fee Received  
Action Date: 10/19/2001  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Transmittal Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/12/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 02/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/08/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/04/2000  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/04/2000  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/10/2000  
Response Action Outcome: Not reported

Action Type: Release

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S106343877**

Action Stat: REPORT  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Chemical:  
Chemical: GASOLINE  
Quantity: 1 inches

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 06/11/2008  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Fee Received  
Action Date: 10/19/2001  
Response Action Outcome: Not reported

Action Type: Downgradient Property Status  
Action Stat: Transmittal Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Phase I  
Action Stat: Completion Statement Received  
Action Date: 10/15/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 02/12/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Status Report Received  
Action Date: 02/09/2001  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Level I - Technical Screen Audit  
Action Date: 12/08/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS (Continued)**

**S106343877**

Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 12/04/2000  
Response Action Outcome: Not reported

Action Type: RNF  
Action Stat: REPORT  
Action Date: 12/04/2000  
Response Action Outcome: Not reported

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 11/10/2000  
Response Action Outcome: Not reported

Action Type: Release  
Action Stat: REPORT  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Action Type: Immediate Response  
Action Stat: Oral Approval of Plan  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 10/06/2000  
Response Action Outcome: Not reported

Y115  
NW  
> 1  
1.121 mi.  
5919 ft.

**GULF STATION  
486 COUNTY ST  
NEW BEDFORD, MA**  
Site 2 of 2 in cluster Y

**LUST S104232373  
RELEASE N/A**

Relative:  
Higher

LUST:  
Facility:  
Facility ID: 4-0010483  
**Facility Status: Release Action Outcome**  
Status Date: 04/09/2007  
Source Type: UST  
Release Town: NEW BEDFORD  
Notification Date: 05/19/1994  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil Or Haz Material: Oil

Actual:  
106 ft.

Chemical:  
Chemical: GASOLINE  
Quantity: 50 parts per million  
Chemical: GASOLINE  
Quantity: 190 parts per million

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 10/09/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 08/07/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 08/07/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 06/11/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 05/29/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 04/09/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/09/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 12/22/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 12/22/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/26/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/30/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/08/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/08/2005

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 09/09/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 06/14/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 06/14/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/08/2004

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/10/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 04/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 04/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/29/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/13/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 02/02/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 01/08/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 10/03/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II

Action Stat: Scope of Work Received

Action Date: 09/12/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 08/29/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 05/02/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 01/28/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 10/10/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 07/25/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Status Report Received

Action Date: 06/26/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 04/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/23/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Approval of Plan  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 04/28/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 04/13/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Denial of Plan

Action Date: 03/15/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 02/16/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 11/01/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Approval of Plan

Action Date: 11/01/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 10/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 09/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 09/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Completion Statement Received

Action Date: 07/19/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/25/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 05/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Facility ID: 4-0010483  
Primary ID: Not reported  
Official City: NEW BEDFORD  
Notification: 05/19/1994  
Category: 72 HR  
Facility Status: Response Action Outcome  
Status Date: 04/09/2007  
Phase: Not reported  
Rspns Actn Outcome Class: A2  
Oil / Haz Material Type: Oil

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 10/09/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 08/07/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 08/07/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Stat: FLDRAN  
Action Date: 06/11/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 05/29/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 04/09/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/09/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 12/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 12/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/30/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 06/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 06/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/08/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/10/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Stat: Completion Statement Received  
Action Date: 04/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 04/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/29/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/13/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/07/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 02/02/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/08/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/03/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/12/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 08/29/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/02/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/10/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/25/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 06/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 04/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Stat: Completion Statement Received  
Action Date: 02/23/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Approval of Plan  
Action Date: 05/04/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Fee Received  
Action Date: 04/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Plan Received  
Action Date: 04/13/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Denial of Plan  
Action Date: 03/15/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 02/16/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 11/01/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

reduced to background.

Action Type: Immediate Response  
Action Stat: Written Approval of Plan  
Action Date: 11/01/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Written Plan Received  
Action Date: 10/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 09/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FOLOFF  
Action Date: 09/13/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/25/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 05/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Chemical:  
Chemical: GASOLINE  
Quantity: 50 parts per million  
Chemical: GASOLINE  
Quantity: 190 parts per million

Location:  
Location Type: COMMERCIAL

Source:  
Source Type: UST

Action:  
Action Type: AUDCOM  
Action Stat: Audit Follow-up Completion Statement Received  
Action Date: 10/09/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NAFNON  
Action Date: 08/07/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Action Audited  
Action Date: 08/07/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 06/11/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM  
Action Stat: NOA  
Action Date: 05/29/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: Level I - Technical Screen Audit  
Action Date: 04/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Completion Statement Received  
Action Date: 04/09/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome  
Action Stat: RAO Statement Received  
Action Date: 04/09/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Status Report Received  
Action Date: 12/22/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: RMRINT  
Action Date: 12/22/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: ROSSTR  
Action Date: 06/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 12/30/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 03/08/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 09/09/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 06/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Revised Statement or Transmittal Received  
Action Date: 06/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/08/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: Remedy Operation Status Submittal Received  
Action Date: 03/10/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 08/20/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V  
Action Stat: IMRCD  
Action Date: 02/27/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Completion Statement Received  
Action Date: 09/05/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Completion Statement Received  
Action Date: 04/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV  
Action Stat: Written Plan Received  
Action Date: 04/15/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/29/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III  
Action Stat: Completion Statement Received  
Action Date: 04/13/1998  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/07/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Completion Statement Received  
Action Date: 02/02/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/08/1998

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/03/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II  
Action Stat: Scope of Work Received  
Action Date: 09/12/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 08/29/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/02/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 01/28/1997

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 10/10/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 07/25/1996

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 06/26/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRAN  
Action Date: 04/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Stat: FLDRUN  
Action Date: 04/18/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 04/08/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 03/28/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 02/23/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Tier 2 Classification  
Action Date: 08/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Stat: Transmittal Received  
Action Date: 08/28/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Status Report Received  
Action Date: 05/25/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Stat: Written Approval of Plan  
Action Date: 05/04/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Fee Received

Action Date: 04/28/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

Action Stat: Written Plan Received

Action Date: 04/13/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Denial of Plan

Action Date: 03/15/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 02/16/1995

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 11/01/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Approval of Plan

Action Date: 11/01/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

Action Stat: Written Plan Received

Action Date: 10/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

Action Stat: ISSUED

Action Date: 09/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

Action Stat: FOLOFF

Action Date: 09/13/1994

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GULF STATION (Continued)**

**S104232373**

Action Type: Immediate Response  
Action Stat: Completion Statement Received  
Action Date: 07/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Stat: REPORT  
Action Date: 07/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility  
Action Stat: ISSUED  
Action Date: 05/25/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response  
Action Stat: IRA Assessment Only  
Action Date: 05/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release  
Action Stat: REPORT  
Action Date: 05/19/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW BEDFORD	1003862291	POPE'S ISLAND	RTE 6	02740	CERCLIS-NFRAP
NEW BEDFORD	1003862392	FISH ISLAND	NEW BEDFORD HBR RTE 6	02740	CERCLIS-NFRAP,HWS,RELEASE
FAIRHAVEN	1003862409	MARSH ISLAND	ADJ TO RTE 195 OPAS	02719	CERCLIS-NFRAP,HWS,RELEASE
NEW BEDFORD	S101020638	ROADWAY/ACCIDENT	RTE 18		MA SPILLS
NEW BEDFORD	S101020958		KINGS HWY PLAZA		MA SPILLS
NEW BEDFORD	S101037313	EXIT 4	RTE 140 S		HWS,RELEASE
NEW BEDFORD	S101046398	ROADWAY	RTE 18 @ STATE PIER	02740	MA SPILLS
NEW BEDFORD	S101046700	FISH ISLAND	RTE 6	02740	MA SPILLS
FAIRHAVEN	S102967632	BEHIND MOTEL	RTE 6	02719	HWS,RELEASE
NEW BEDFORD	S103812452	NEAR INTERSECTION OF RTE. 6	RTE 18		HWS,RELEASE
NEW BEDFORD	S103812578	NEW BEDFORD-FAIRHAVEN BRIDGE	RTE 6		RELEASE,LAST
NEW BEDFORD	S104774374	STEAMSHIP DOCK	RTE 6		HWS,RELEASE
NEW BEDFORD	S104942062	AT ONEIDA ST	RTE 6		HWS,RELEASE
NEW BEDFORD	S105039525	PROPERTY	RTE 140	02740	HWS,RELEASE
NEW BEDFORD	S105200498	OHARA CHEVROLET FMR	981 101 KINGS HWY	02740	LUST,RELEASE
NEW BEDFORD	S105200621	@ COGGESHALL	RTE 195 WEST BOUND		HWS,RELEASE
FAIRHAVEN	S105309517	GASOLINE TANKER EAST OF RTE 240	RTE 195E / RTE 240	02719	HWS,RELEASE
FAIRHAVEN	S105522088	NEAR SEAPORT INN	ROUTE 6	02719	HWS,RELEASE
NEW BEDFORD	S105735789	ACUSHNET RIVER	RTE 195 E		HWS,RELEASE
FAIRHAVEN	S105811051	PROPERTY	NORTHWEST COR RTE 240 RTE 6	02719	HWS,RELEASE
NEW BEDFORD	S106030203	BETWEEN EXIT 14 & 15	RTE 195 W		HWS,RELEASE
NEW BEDFORD	S107405565	NEAR PURCHASE ST EXIT	RTE 18		HWS,RELEASE
FAIRHAVEN	S107678330	POLE #132/35	RTE 6	02719	HWS,RELEASE
NEW BEDFORD	S108962741	ELM ST	RTE 18 S		HWS,RELEASE
NEW BEDFORD	S109330294	SULLIVANS LEDGE	RTE 195 RTE 140 HATHAWAY RD		LF
NEW BEDFORD	S110115197	SOIL BORING LOCATION #13	RTE 18/ACUSHNET AVE	02744	HWS,RELEASE

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/01/2009	Source: EPA
Date Data Arrived at EDR: 01/14/2010	Telephone: N/A
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/01/2009	Source: EPA
Date Data Arrived at EDR: 01/14/2010	Telephone: N/A
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 01/14/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/01/2009	Source: EPA
Date Data Arrived at EDR: 01/14/2010	Telephone: N/A
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/30/2009	Source: EPA
Date Data Arrived at EDR: 08/11/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 02/09/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Quarterly

### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of NPL and Base Realignment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 02/23/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 03/15/2010
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/11/2009	Source: EPA
Date Data Arrived at EDR: 12/29/2009	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 02/15/2010
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/31/2010
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal RCRA non-CORRACTS TSD facilities list***

### RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: (888) 372-7341
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: (888) 372-7341
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Quarterly

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: (888) 372-7341
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: (888) 372-7341
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2009	Telephone: 703-603-0695
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Varies

## US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2009	Telephone: 703-603-0695
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2009	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/22/2010	Telephone: 202-267-2180
Date Made Active in Reports: 02/11/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 01/15/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2010	Telephone: 617-292-5990
Date Made Active in Reports: 01/28/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Quarterly

## ***State and tribal landfill and/or solid waste disposal site lists***

### SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/01/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/13/2010	Telephone: 617-292-5989
Date Made Active in Reports: 01/28/2010	Last EDR Contact: 01/13/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 01/15/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2010	Telephone: 617-292-5990
Date Made Active in Reports: 01/28/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Quarterly

## LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 01/15/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2010	Telephone: 617-292-5500
Date Made Active in Reports: 01/28/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Quarterly

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 12/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 12/01/2009	Telephone: 303-312-6271
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/12/2009	Source: EPA Region 6
Date Data Arrived at EDR: 11/12/2009	Telephone: 214-665-6597
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/02/2010	Source: EPA Region 10
Date Data Arrived at EDR: 02/03/2010	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 11/24/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/25/2009	Telephone: 415-972-3372
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/07/2009	Source: EPA Region 4
Date Data Arrived at EDR: 12/09/2009	Telephone: 404-562-8677
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

## **State and tribal registered storage tank lists**

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts  
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/04/2009	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 12/11/2009	Telephone: 978-567-3715
Date Made Active in Reports: 12/28/2009	Last EDR Contact: 01/28/2010
Number of Days to Update: 17	Next Scheduled EDR Contact: 05/10/2010
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database  
Registered Aboveground Storage Tanks.

Date of Government Version: 10/22/2009	Source: Department of Public Safety
Date Data Arrived at EDR: 10/28/2009	Telephone: 978-567-3715
Date Made Active in Reports: 11/06/2009	Last EDR Contact: 01/28/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/10/2010
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/07/2009	Source: EPA Region 4
Date Data Arrived at EDR: 12/09/2009	Telephone: 404-562-9424
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/02/2010	Source: EPA Region 10
Date Data Arrived at EDR: 02/03/2010	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/17/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 02/08/2010	Source: EPA Region 6
Date Data Arrived at EDR: 02/09/2010	Telephone: 214-665-7591
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2009	Source: EPA Region 5
Date Data Arrived at EDR: 11/05/2009	Telephone: 312-886-6136
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/12/2009	Source: EPA Region 9
Date Data Arrived at EDR: 11/20/2009	Telephone: 415-972-3368
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 12/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 12/01/2009	Telephone: 303-312-6137
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 02/01/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/01/2009	Source: FEMA
Date Data Arrived at EDR: 10/29/2009	Telephone: 202-646-5797
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 01/18/2010
Number of Days to Update: 48	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 01/15/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2010	Telephone: 617-292-5990
Date Made Active in Reports: 01/28/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Quarterly

## ***State and tribal voluntary cleanup sites***

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 01/05/2010
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/04/2009	Telephone: 202-566-2777
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 01/07/2010
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Semi-Annually

## **Local Lists of Landfill / Solid Waste Disposal Sites**

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-972-3336
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/07/2010
Number of Days to Update: 137	Next Scheduled EDR Contact: 03/22/2010
	Data Release Frequency: Varies

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 02/08/2010
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/24/2010
	Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2009  
Date Data Arrived at EDR: 12/29/2009  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 43

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 12/14/2009  
Next Scheduled EDR Contact: 03/22/2010  
Data Release Frequency: Quarterly

## US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 11/19/2008  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 131

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

## Local Land Records

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/03/2009  
Date Data Arrived at EDR: 11/05/2009  
Date Made Active in Reports: 12/16/2009  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 02/01/2010  
Next Scheduled EDR Contact: 05/17/2010  
Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005  
Date Data Arrived at EDR: 12/11/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 31

Source: Department of the Navy  
Telephone: 843-820-7326  
Last EDR Contact: 02/23/2010  
Next Scheduled EDR Contact: 06/07/2010  
Data Release Frequency: Varies

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 01/06/2010  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 35

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 01/06/2010  
Next Scheduled EDR Contact: 04/12/2010  
Data Release Frequency: Annually

### RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 01/15/2010  
Date Data Arrived at EDR: 01/19/2010  
Date Made Active in Reports: 01/28/2010  
Number of Days to Update: 9

Source: Department of Environmental Protection  
Telephone: 617-292-5990  
Last EDR Contact: 02/19/2010  
Next Scheduled EDR Contact: 05/03/2010  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993  
Date Data Arrived at EDR: 12/03/2003  
Date Made Active in Reports: 12/31/2003  
Number of Days to Update: 28

Source: Department of Environmental Protection  
Telephone: 617-292-5720  
Last EDR Contact: 12/03/2003  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## Other Ascertainable Records

### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 01/13/2010  
Date Data Arrived at EDR: 01/15/2010  
Date Made Active in Reports: 02/18/2010  
Number of Days to Update: 34

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 02/19/2010  
Next Scheduled EDR Contact: 04/19/2010  
Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2009  
Date Data Arrived at EDR: 11/10/2009  
Date Made Active in Reports: 12/16/2009  
Number of Days to Update: 36

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 02/09/2010  
Next Scheduled EDR Contact: 05/24/2010  
Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 703-692-8801  
Last EDR Contact: 01/19/2010  
Next Scheduled EDR Contact: 05/03/2010  
Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 09/30/2009  
Date Made Active in Reports: 12/01/2009  
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 12/18/2009  
Next Scheduled EDR Contact: 03/29/2010  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/03/2009  
Date Data Arrived at EDR: 10/27/2009  
Date Made Active in Reports: 11/09/2009  
Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/05/2010  
Next Scheduled EDR Contact: 04/19/2010  
Data Release Frequency: Varies

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/01/2009  
Date Data Arrived at EDR: 12/15/2009  
Date Made Active in Reports: 01/19/2010  
Number of Days to Update: 35

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 12/15/2009  
Next Scheduled EDR Contact: 03/29/2010  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 05/08/2009  
Number of Days to Update: 1

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 12/23/2009  
Next Scheduled EDR Contact: 03/15/2010  
Data Release Frequency: Varies

## MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/17/2009  
Date Data Arrived at EDR: 12/08/2009  
Date Made Active in Reports: 01/19/2010  
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 12/08/2009  
Next Scheduled EDR Contact: 03/22/2010  
Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 01/13/2010  
Date Made Active in Reports: 02/18/2010  
Number of Days to Update: 36

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 01/13/2010  
Next Scheduled EDR Contact: 03/15/2010  
Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002  
Date Data Arrived at EDR: 04/14/2006  
Date Made Active in Reports: 05/30/2006  
Number of Days to Update: 46

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 01/20/2010  
Next Scheduled EDR Contact: 04/12/2010  
Data Release Frequency: Every 4 Years

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 12/14/2009  
Next Scheduled EDR Contact: 03/15/2010  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 12/14/2009  
Next Scheduled EDR Contact: 03/15/2010  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 01/06/2010  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 02/01/2010  
Next Scheduled EDR Contact: 05/17/2010  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/10/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/18/2009	Telephone: 202-564-5088
Date Made Active in Reports: 01/19/2010	Last EDR Contact: 12/23/2009
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/01/2009	Source: EPA
Date Data Arrived at EDR: 10/21/2009	Telephone: 202-566-0500
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 02/16/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Annually

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/24/2009	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 12/31/2009	Telephone: 301-415-7169
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 12/14/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/12/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2010	Telephone: 202-343-9775
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 01/13/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/19/2009	Source: EPA
Date Data Arrived at EDR: 10/22/2009	Telephone: (617) 918-1111
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 02/19/2009  
Date Made Active in Reports: 05/22/2009  
Number of Days to Update: 92

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 11/20/2009  
Next Scheduled EDR Contact: 03/05/2010  
Data Release Frequency: Biennially

## DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 10/28/2009  
Date Data Arrived at EDR: 10/29/2009  
Date Made Active in Reports: 11/06/2009  
Number of Days to Update: 8

Source: Department of Environmental Protection  
Telephone: 617-292-5633  
Last EDR Contact: 01/25/2010  
Next Scheduled EDR Contact: 05/10/2010  
Data Release Frequency: Varies

## ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 08/01/2004  
Date Data Arrived at EDR: 09/01/2004  
Date Made Active in Reports: 10/01/2004  
Number of Days to Update: 30

Source: Department of Environmental Quality  
Telephone: 617-292-5979  
Last EDR Contact: 02/08/2010  
Next Scheduled EDR Contact: 05/24/2010  
Data Release Frequency: Varies

## AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 10/27/2009  
Date Data Arrived at EDR: 10/29/2009  
Date Made Active in Reports: 11/06/2009  
Number of Days to Update: 8

Source: Department of Environmental Protection  
Telephone: 617-292-5789  
Last EDR Contact: 02/08/2010  
Next Scheduled EDR Contact: 05/10/2010  
Data Release Frequency: Varies

## LEAD: Lead Inspection Database

The Massachusetts Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 11/18/2009  
Date Data Arrived at EDR: 11/25/2009  
Date Made Active in Reports: 01/05/2010  
Number of Days to Update: 41

Source: Department of Health & Human Services, Childhood Lead Poisoning Prevention Program  
Telephone: 617-624-5757  
Last EDR Contact: 02/15/2010  
Next Scheduled EDR Contact: 05/17/2010  
Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 01/19/2010  
Next Scheduled EDR Contact: 05/03/2010  
Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 11/16/2009  
Date Data Arrived at EDR: 11/16/2009  
Date Made Active in Reports: 01/19/2010  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 02/08/2010  
Next Scheduled EDR Contact: 05/10/2010  
Data Release Frequency: Varies

## FINANCIAL ASSURANCE 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 07/01/2009  
Date Data Arrived at EDR: 08/21/2009  
Date Made Active in Reports: 08/27/2009  
Number of Days to Update: 6

Source: Department of Environmental Protection  
Telephone: 617-292-5970  
Last EDR Contact: 01/05/2010  
Next Scheduled EDR Contact: 04/19/2010  
Data Release Frequency: Varies

## FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 10/01/2008  
Date Data Arrived at EDR: 11/13/2008  
Date Made Active in Reports: 12/23/2008  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: 617-292-5970  
Last EDR Contact: 02/23/2010  
Next Scheduled EDR Contact: 05/24/2010  
Data Release Frequency: Varies

## GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 05/26/2009  
Date Data Arrived at EDR: 08/05/2009  
Date Made Active in Reports: 08/13/2009  
Number of Days to Update: 8

Source: MassGIS  
Telephone: 617-556-1150  
Last EDR Contact: 02/08/2010  
Next Scheduled EDR Contact: 05/24/2010  
Data Release Frequency: Varies

## FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/22/2009  
Date Data Arrived at EDR: 10/28/2009  
Date Made Active in Reports: 11/06/2009  
Number of Days to Update: 9

Source: Office of State Fire Marshal  
Telephone: 978-567-3100  
Last EDR Contact: 01/28/2010  
Next Scheduled EDR Contact: 05/10/2010  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/27/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/19/2010
Number of Days to Update: 339	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: N/A

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/09/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2009	Telephone: N/A
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 12/15/2009
Number of Days to Update: 54	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 02/24/2010
Number of Days to Update: 100	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

## EDR PROPRIETARY RECORDS

### ***EDR Proprietary Records***

#### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/26/2009	Telephone: 860-424-3375
Date Made Active in Reports: 09/11/2009	Last EDR Contact: 11/24/2009
Number of Days to Update: 16	Next Scheduled EDR Contact: 03/08/2010
	Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/20/2010	Telephone: N/A
Date Made Active in Reports: 02/05/2010	Last EDR Contact: 01/20/2010
Number of Days to Update: 16	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/27/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 11/10/2009	Telephone: 518-402-8651
Date Made Active in Reports: 12/09/2009	Last EDR Contact: 02/11/2010
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/24/2010
	Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/01/2009	Telephone: N/A
Date Made Active in Reports: 12/14/2009	Last EDR Contact: 02/23/2010
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/07/2010
	Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 11/03/2009	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/12/2010	Telephone: 401-222-2797
Date Made Active in Reports: 02/22/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 03/15/2010
	Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/31/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/09/2009	Telephone: 802-241-3443
Date Made Active in Reports: 05/20/2009	Last EDR Contact: 01/25/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/10/2010
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 07/17/2009  
Date Made Active in Reports: 08/10/2009  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 12/21/2009  
Next Scheduled EDR Contact: 04/05/2010  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: PennWell Corporation  
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

4 WRIGHT STREET  
4 WRIGHT STREET  
NEW BEDFORD, MA 02740

### TARGET PROPERTY COORDINATES

Latitude (North): 41.62440 - 41° 37' 27.8"  
Longitude (West): 70.9162 - 70° 54' 58.3"  
Universal Transverse Mercator: Zone 19  
UTM X (Meters): 340367.2  
UTM Y (Meters): 4609635.5  
Elevation: 0 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 41070-F8 NEW BEDFORD NORTH, MA  
Most Recent Revision: 1979  
  
South Map: 41070-E8 NEW BEDFORD SOUTH, MA  
Most Recent Revision: 1977

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

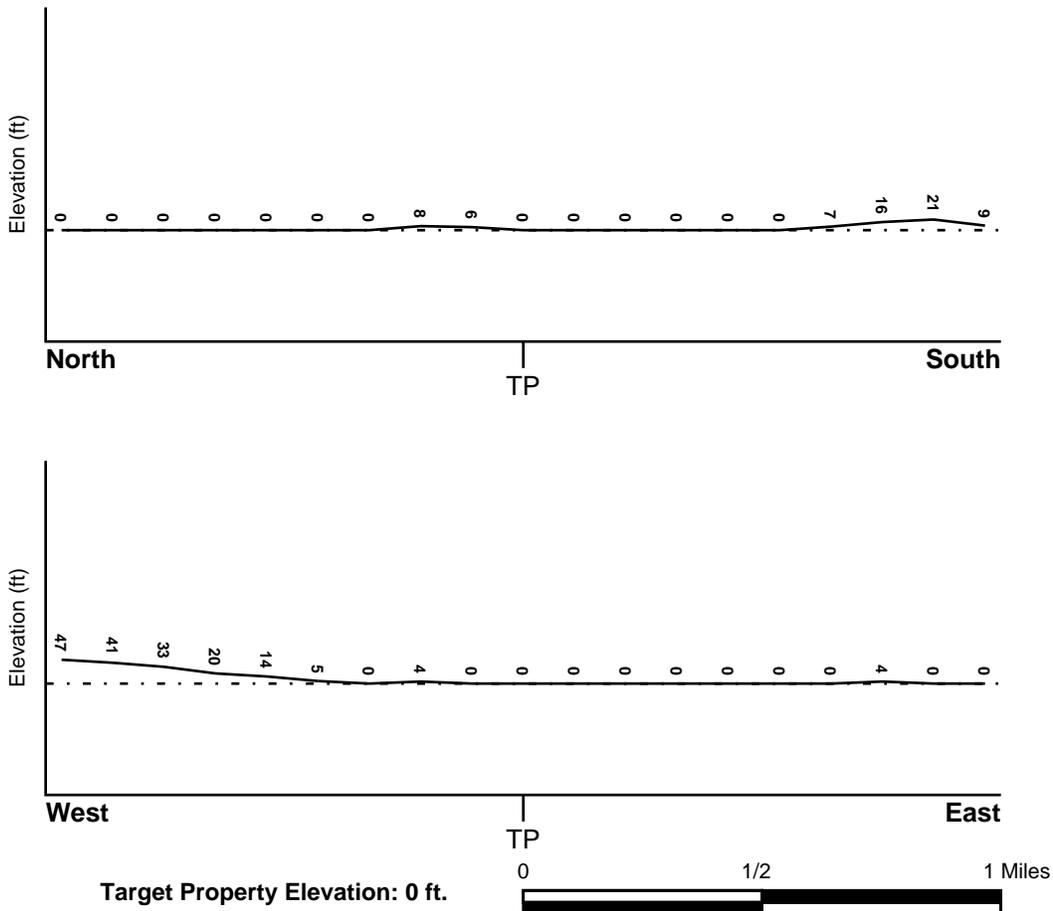
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## **HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u> BRISTOL, MA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	25005C - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> NEW BEDFORD SOUTH	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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## **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	1/8 - 1/4 Mile WSW	VARIES
17	1/2 - 1 Mile NE	VARIES

For additional site information, refer to Physical Setting Source Map Findings.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era: Precambrian  
System: Precambrian  
Series: Z ganitic rocks  
Code: Zg *(decoded above as Era, System & Series)*

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 2707507.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: 4 Wright Street  
ADDRESS: 4 Wright Street  
New Bedford MA 02740  
LAT/LONG: 41.6244 / 70.9162

CLIENT: APEX Companies LLC  
CONTACT: Mary Bruno  
INQUIRY #: 2707507.2s  
DATE: February 24, 2010 3:13 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

#### Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:  
Hydrologic Group: Not reported

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

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#### Soil Map ID: 2

Soil Component Name: Udorthents

Soil Surface Texture: variable

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: 141.14 Min: 0.42	Max: Min:
2	5 inches	59 inches	variable	Not reported	Not reported	Max: 141.14 Min: 0.42	Max: Min:

### Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: variable

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS2055368	1/4 - 1/2 Mile South
A3	USGS2055055	1/4 - 1/2 Mile NNW
5	USGS2055339	1/4 - 1/2 Mile SSW
6	USGS2055186	1/4 - 1/2 Mile WNW
8	USGS2055162	1/2 - 1 Mile WNW
10	USGS2055110	1/2 - 1 Mile NNW
12	USGS2054752	1/2 - 1 Mile NNW
13	USGS2055161	1/2 - 1 Mile West
15	USGS2054990	1/2 - 1 Mile NE
16	USGS2055495	1/2 - 1 Mile South
18	USGS2055494	1/2 - 1 Mile SSE
19	USGS2054174	1/2 - 1 Mile NNE
20	USGS2054897	1/2 - 1 Mile NW
B21	USGS2054175	1/2 - 1 Mile NNW
B22	USGS2054219	1/2 - 1 Mile NNW
23	USGS2054753	1/2 - 1 Mile NW
24	USGS2053888	1/2 - 1 Mile NNW
25	USGS2053997	1/2 - 1 Mile NNW
26	USGS2053801	1/2 - 1 Mile North
27	USGS2054378	1/2 - 1 Mile NNW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	MA5000000000167	1/4 - 1/2 Mile NNW
7	MA5000000000140	1/2 - 1 Mile South
14	MA5000000000135	1/2 - 1 Mile SSE

# PHYSICAL SETTING SOURCE MAP - 2707507.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Potentially Productive Aquifers
- Not Potentially Productive Aquifers
- DEP Approved Zone IIs
- EPA Designated Sole Src. Aq.

<p><b>SITE NAME:</b> 4 Wright Street  <b>ADDRESS:</b> 4 Wright Street                  New Bedford MA 02740  <b>LAT/LONG:</b> 41.6244 / 70.9162</p>	<p><b>CLIENT:</b> APEX Companies LLC  <b>CONTACT:</b> Mary Bruno  <b>INQUIRY #:</b> 2707507.2s  <b>DATE:</b> February 24, 2010 3:13 pm</p>
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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

<b>1</b>	Site ID:	4-0000485		
<b>WSW</b>	Groundwater Flow:	VARIES	<b>AQUIFLOW</b>	<b>5289</b>
<b>1/8 - 1/4 Mile</b>	Shallowest Water Table Depth:	5.5		
<b>Higher</b>	Deepest Water Table Depth:	7		
	Date:	4/11/1991		

<b>2</b>				
<b>South</b>			<b>FED USGS</b>	<b>USGS2055368</b>
<b>1/4 - 1/2 Mile</b>				
<b>Higher</b>				

Agency cd:	USGS	Site no:	413709070545801
Site name:	MA-NGW 43	EDR Site id:	USGS2055368
Latitude:	413709	Dec lat:	41.6192711
Longitude:	0705458	Coor meth:	M
Dec lon:	-70.915593	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	5.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	87.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data end date:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

<b>A3</b>				
<b>NNW</b>			<b>FED USGS</b>	<b>USGS2055055</b>
<b>1/4 - 1/2 Mile</b>				
<b>Higher</b>				

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413749070551001
Site name:	MA-NGX 16	EDR Site id:	USGS2055055
Latitude:	413749	Dec lat:	41.63038194
Longitude:	0705510	Coor meth:	M
Dec lon:	-70.9189267	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	10.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1948
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	44.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1948-05-01	Ground water data end date:	1948-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1948-05-01	12.00	

**A4  
NNW  
1/4 - 1/2 Mile  
Higher**

**MA WELLS      MA5000000000167**

Fac id:	130030	Region:	Southeast
Fac name:	COMMONWEALTH ELECTRIC COMPANY	Hw id:	MAD002577575
Address:	180 MACARTHER DRIVE	Sseis id:	1200041
Town:	NEW BEDFORD	Air:	Not Reported
Rtn:	Not Reported	Hwr:	Not Reported
Sw id:	Not Reported	Lqg rcra:	Not Reported
Npdes id:	Not Reported	Tsdf:	Not Reported
Gwd:	Not Reported		
Lqg ma:	Y		
Lqtu:	Not Reported		
Swd:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	0	Site name:	Not Reported
Source id:	Not Reported		
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Site id:	MA5000000000167		
Fac id:	130030		
L base:	Digitized on screen from USGS digital topographic quadrangle (DEG)		Estimated horizontal accuracy is +/-100 ft (30.5m)
L type:	CB	L meth:	MAP
L src 1:	Locus map based on USGS topographic quadrangle map		Not Reported
L src 3:	Not Reported	L date:	19981105

**5**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS2055339**

Agency cd:	USGS	Site no:	413704070550801
Site name:	MA-NGW 59		
Latitude:	413704	EDR Site id:	USGS2055339
Longitude:	0705508	Dec lat:	41.6178822
Dec lon:	-70.9183711	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	10.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1947
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1947-01-01	Ground water data end date:	1947-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1947-01-01	4.00	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**6**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS2055186**

Agency cd:	USGS	Site no:	413739070553101
Site name:	MA-NGW 6		
Latitude:	413739	EDR Site id:	USGS2055186
Longitude:	0705531	Dec lat:	41.62760417
Dec lon:	-70.92476028	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	22.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1905
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	225	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1905-11-01	Ground water data end date:	1905-11-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1905-11-01	10.00	

**7**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**MA WELLS      MA500000000140**

Fac id:	119752		
Fac name:	PROGRESSIVE POLYMER		
Address:	91 COVE ST		
Town:	NEW BEDFORD	Region:	Southeast
Rtn:	Not Reported	Hw id:	MV5089927370
Sw id:	Not Reported	Sseis id:	0
Npdes id:	Not Reported	Air:	Not Reported
Gwd:	Not Reported	Hwr:	Not Reported
Lqg ma:	Not Reported	Lqg rcra:	Not Reported
Lqtu:	Y	Tsdf:	Not Reported
Swd:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	0	Site name:	Not Reported
Source id:	Not Reported		
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Site id:	MA5000000000140		
Fac id:	119752		
L base:	Digitized on screen using digital orthophoto base map (DOQ)		Estimated horizontal accuracy is +/-16ft (5m)
L type:	CB	L meth:	OTH
L src 1:	KNOW	L src 2:	MassGIS 1:5,000 digital orthophotography
L src 3:	Not Reported	L date:	20021022

**8**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2055162**

Agency cd:	USGS	Site no:	413735070554201
Site name:	MA-NGW 21		
Latitude:	413735	EDR Site id:	USGS2055162
Longitude:	0705542	Dec lat:	41.62649306
Dec lon:	-70.9278158	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	40.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1925
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	146	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**9**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

Site ID:	4-0000119	<b>AQUIFLOW</b>	<b>5284</b>
Groundwater Flow:	NOT REPORTED		
Shallowest Water Table Depth:	7.1		
Deepest Water Table Depth:	8.4		
Date:	10/10/1985		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**10**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2055110**

Agency cd:	USGS	Site no:	413759070552601
Site name:	MA-NGW 20		
Latitude:	413759	EDR Site id:	USGS2055110
Longitude:	0705526	Dec lat:	41.6331597
Dec lon:	-70.92337139	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	21.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1900
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**11**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

Site ID:	4-0000688	<b>AQUIFLOW</b>	<b>5288</b>
Groundwater Flow:	Not Reported		
Shallowest Water Table Depth:	6.64		
Deepest Water Table Depth:	15.63		
Date:	6/11/1992		

**12**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2054752**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413807070551901
Site name:	MA-NGW 19	EDR Site id:	USGS2054752
Latitude:	413807	Dec lat:	41.63538194
Longitude:	0705519	Coor meth:	M
Dec lon:	-70.9214269	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	5.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	14.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**13  
West  
1/2 - 1 Mile  
Higher**

**FED USGS USGS2055161**

Agency cd:	USGS	Site no:	413734070555601
Site name:	MA-NGX 19	EDR Site id:	USGS2055161
Latitude:	413734	Dec lat:	41.62621528
Longitude:	0705556	Coor meth:	M
Dec lon:	-70.9317047	Latlong datum:	NAD27
Coor accr:	S	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	54.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1967
Date inventoried:	Not Reported	Mean greenwich time offset:	EST



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413801070542301
Site name:	MA-FHX 22	EDR Site id:	USGS2054990
Latitude:	413801	Dec lat:	41.63371556
Longitude:	0705423	Coor meth:	M
Dec lon:	-70.9058708	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	6.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1950
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	25.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1950-01-01	Ground water data end date:	1950-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1950-01-01	4.00	

**16  
South  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS2055495**

Agency cd:	USGS	Site no:	413642070550701
Site name:	MA-NGX 17	EDR Site id:	USGS2055495
Latitude:	413642	Dec lat:	41.6117711
Longitude:	0705507	Coor meth:	M
Dec lon:	-70.918093	Latlong datum:	NAD27
Coor accr:	S	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	15.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1967
Date inventoried:	Not Reported	Mean greenwich time offset:	EST



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0	Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00	Water quality data count: 0
Ground water data begin date: 1967-06-01	Ground water data end date: 1967-06-01
Ground water data count: 1	

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1967-06-01	4.00	

**19**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2054174**

Agency cd:	USGS	Site no:	413812070544001
Site name:	MA-FHW 46	EDR Site id:	USGS2054174
Latitude:	413812	Dec lat:	41.6367708
Longitude:	0705440	Coor meth:	M
Dec lon:	-70.9105933	Latlong datum:	NAD27
Coor accr:	S	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	5.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	1946
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	80.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1946-01-01	Ground water data end date:	1946-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1946-01-01	5.00	

**20**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2054897**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413804070554001
Site name:	MA-NGW 2	EDR Site id:	USGS2054897
Latitude:	413804	Dec lat:	41.6345486
Longitude:	0705540	Coor meth:	M
Dec lon:	-70.92726028	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	70.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1937
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data begin date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data end date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Water quality data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data end date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**B21  
NNW  
1/2 - 1 Mile  
Higher**

**FED USGS USGS2054175**

Agency cd:	USGS	Site no:	413812070552201
Site name:	MA-NGX 13	EDR Site id:	USGS2054175
Latitude:	413812	Dec lat:	41.6367708
Longitude:	0705522	Coor meth:	M
Dec lon:	-70.92226028	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	5.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1945
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	26.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**B22**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2054219**

Agency cd:	USGS	Site no:	413813070552001
Site name:	MA-NGX 14		
Latitude:	413813	EDR Site id:	USGS2054219
Longitude:	0705520	Dec lat:	41.6370486
Dec lon:	-70.9217047	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	4.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1945
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	26.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**23**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2054753**

Agency cd:	USGS	Site no:	413807070554301
Site name:	MA-NGW 1		
Latitude:	413807	EDR Site id:	USGS2054753
Longitude:	0705543	Dec lat:	41.63538194
Dec lon:	-70.9280936	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	75.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1908
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	357	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**24**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2053888**

Agency cd:	USGS	Site no:	413816070552101
Site name:	MA-NGR 49		
Latitude:	413816	EDR Site id:	USGS2053888
Longitude:	0705521	Dec lat:	41.63788194
Dec lon:	-70.9219825	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	6.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1969
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	28.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**25  
NNW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS2053997**

Agency cd:	USGS	Site no:	413814070552801
Site name:	MA-NGB 17	EDR Site id:	USGS2053997
Latitude:	413814	Dec lat:	41.63732639
Longitude:	0705528	Coor meth:	M
Dec lon:	-70.9239269	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	18.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1972
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	22.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0	Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00	Water quality data count: 0
Ground water data begin date: 1972-03-01	Ground water data end date: 1972-03-01
Ground water data count: 1	

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1972-03-01	12.00	

**26**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2053801**

Agency cd:	USGS	Site no:	413818070551001
Site name:	MA-NGB 33	EDR Site id:	USGS2053801
Latitude:	413818	Dec lat:	41.6384375
Longitude:	0705510	Coor meth:	M
Dec lon:	-70.9189269	Latlong datum:	NAD27
Coor accr:	S	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	7.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1969
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	60.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported		
Daily flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Peak flow data end date:	Not Reported		
Water quality data begin date:	Not Reported		
Water quality data end date:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data end date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**27**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS2054378**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413811070553701
Site name:	MA-NGW 3	EDR Site id:	USGS2054378
Latitude:	413811	Dec lat:	41.63649306
Longitude:	0705537	Coor meth:	M
Dec lon:	-70.9264269	Latlong datum:	NAD27
Coor accr:	F	District:	25
Dec latlong datum:	NAD83	County:	005
State:	25	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	56.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod, Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1915
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1948-05-01	Ground water data end date:	1948-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
------	-----------------------	---------------------

-----  
1948-05-01 12.00

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: MA Radon

### Radon Test Results

County	% of sites > 4 pCi/L	Median
BRISTOL	23	1.8

Federal EPA Radon Zone for BRISTOL County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for Zip Code: 02740

Number of sites tested: 7

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	0.500 pCi/L	100%	0%	0%
Basement	2.743 pCi/L	71%	29%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Public Water Supply Database: The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

## OTHER STATE DATABASE INFORMATION

Areas of Critical Environmental Concern Datalayer: The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers Datalayer: The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by a EPA hydrogeologist.

Aquifers Datalayer: MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

Non-Potential Drinking Water Source Areas: Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature, representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

DEP Approved Zone IIs Datalayer: The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is "that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary)." These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.

- Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line.
- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.
- Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

### RADON

State Database: MA Radon  
Source: Department of Health  
Telephone: 413-586-7525  
Radon Test Results

#### Area Radon Information

Source: USGS  
Telephone: 703-356-4020  
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA  
Telephone: 703-356-4020  
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

### STREET AND ADDRESS INFORMATION

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**4 Wright Street**

4 Wright Street

New Bedford, MA 02740

Inquiry Number: 2707507.4

February 25, 2010

# The EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

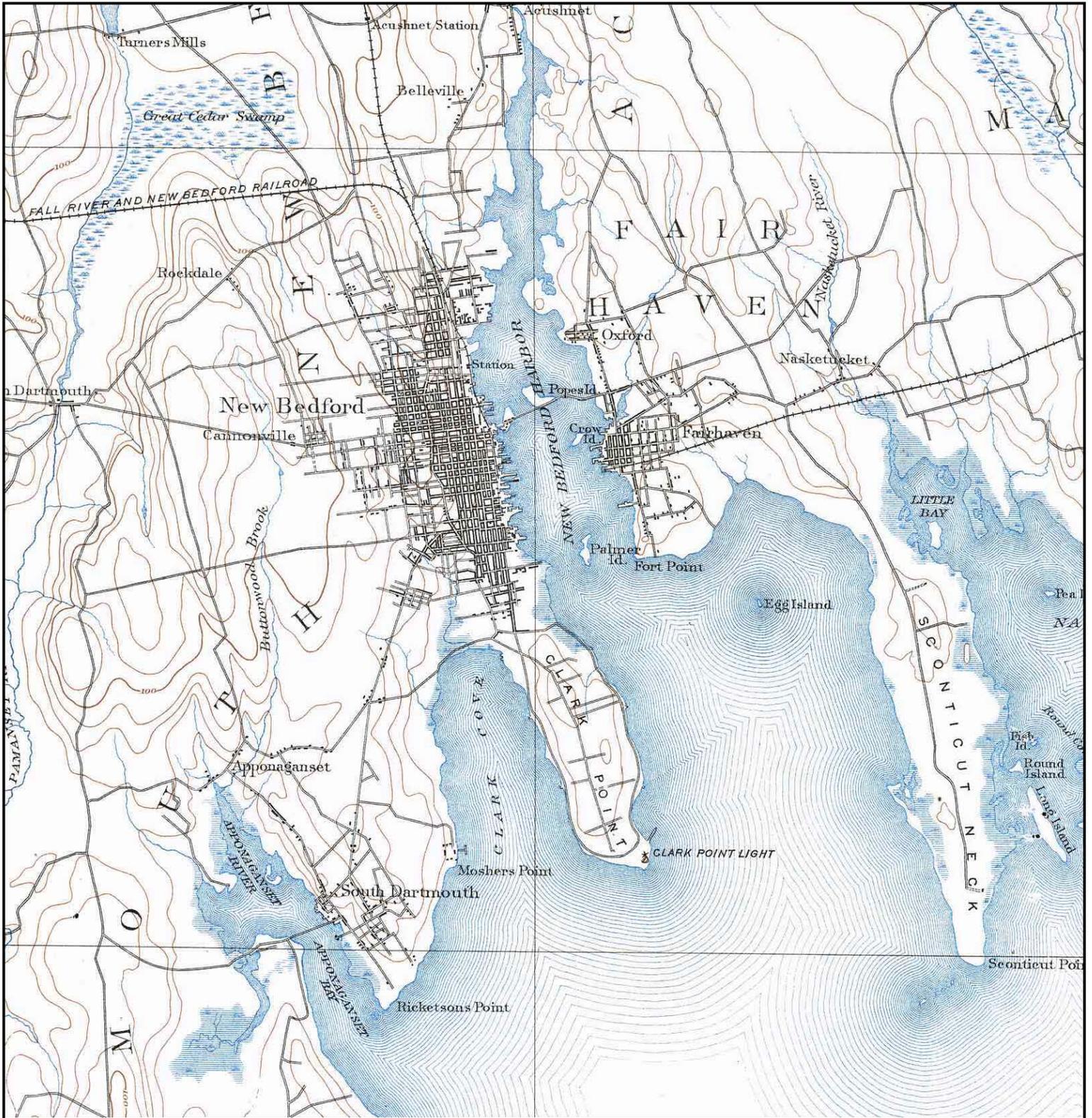
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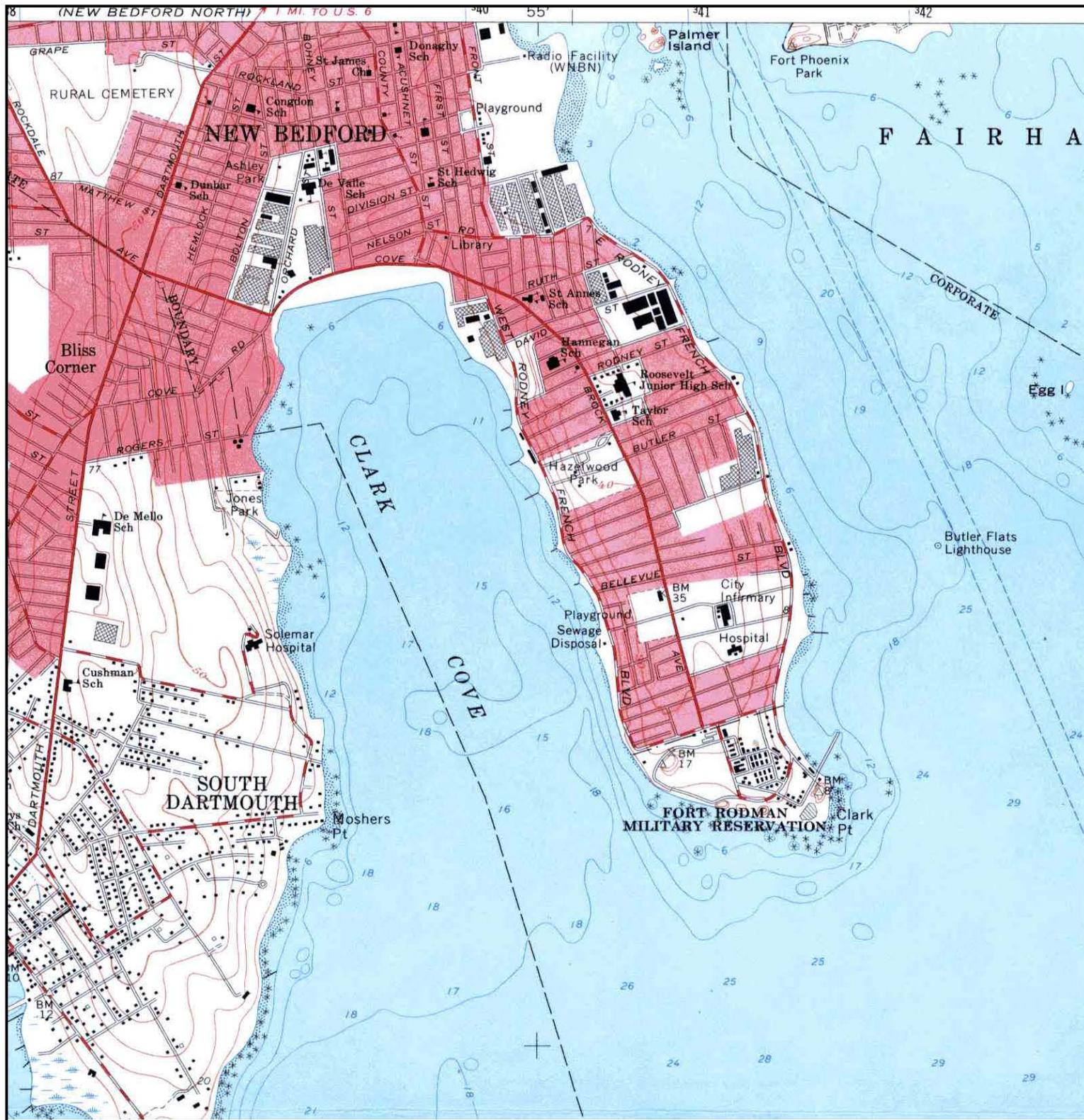
# Historical Topographic Map



<p>N</p>	TARGET QUAD	SITE NAME:	4 Wright Street	CLIENT:	APEX Companies LLC
	NAME: NEW BEDFORD	ADDRESS:	4 Wright Street	CONTACT:	Mary Bruno
	MAP YEAR: 1893		New Bedford, MA 02740	INQUIRY#:	2707507.4
	SERIES: 15	LAT/LONG:	41.6244 / 70.9162	RESEARCH DATE:	02/25/2010
	SCALE: 1:62500				

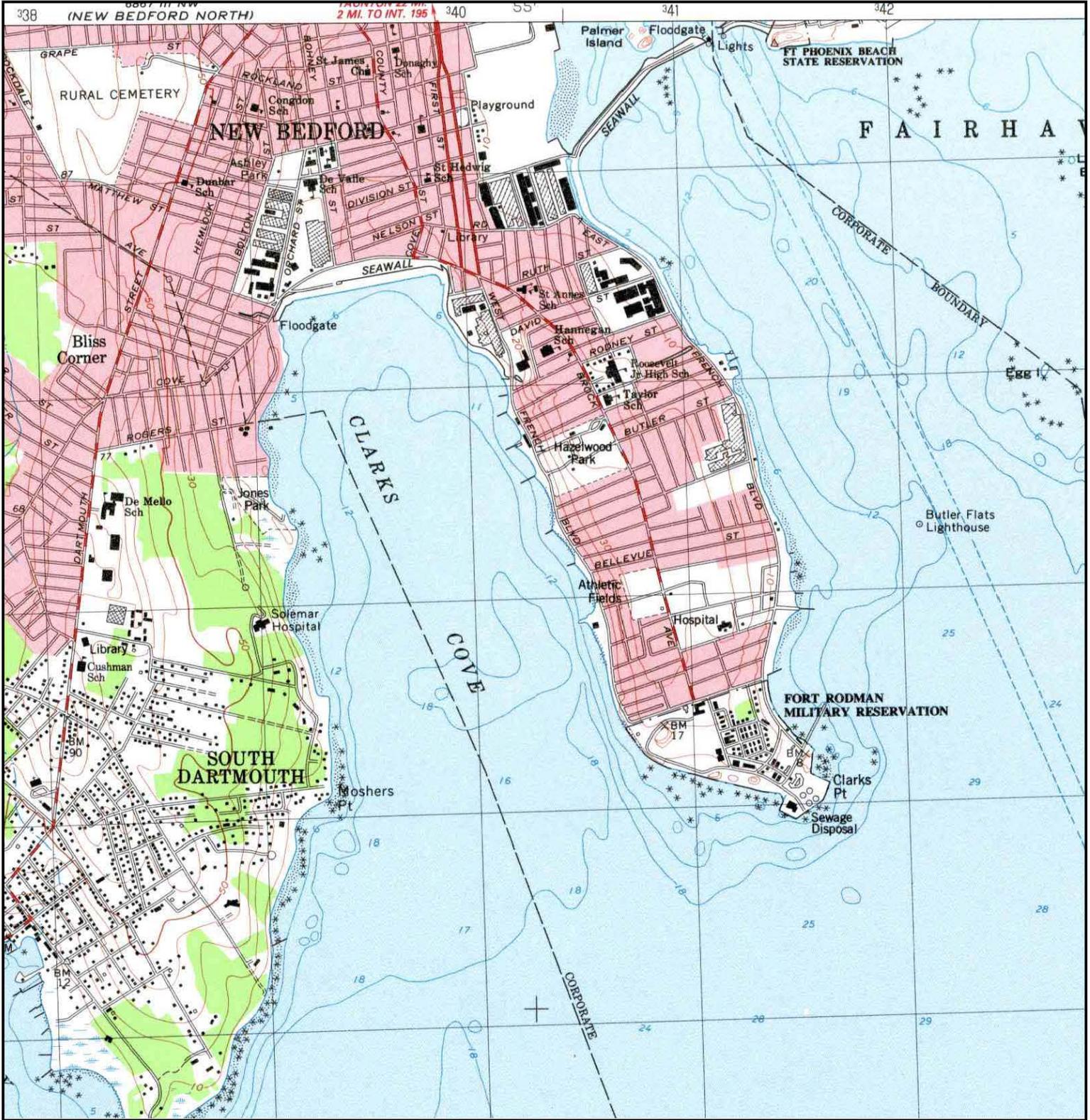


# Historical Topographic Map



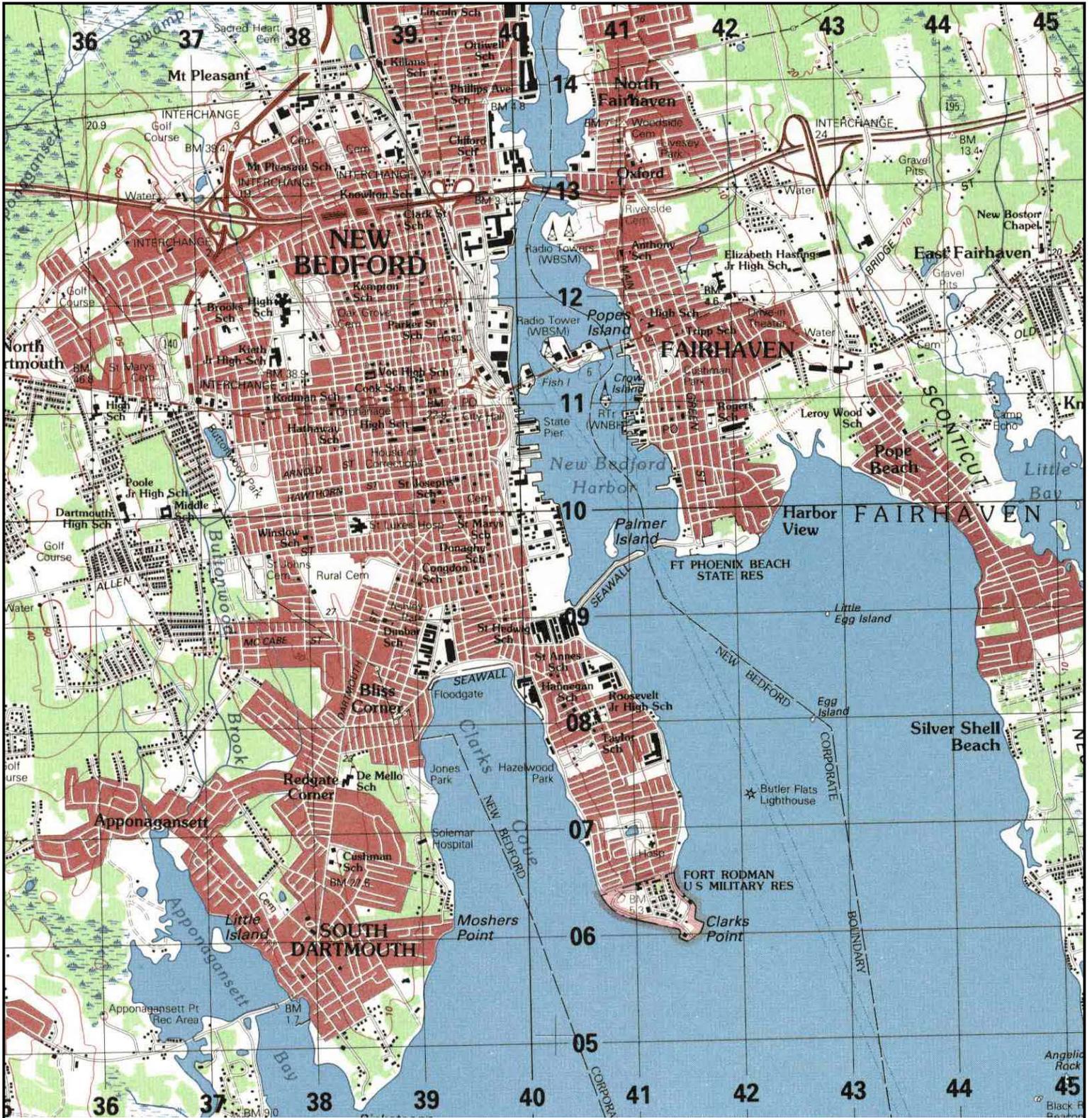
<p>N ↑</p>	<p>TARGET QUAD NAME: NEW BEDFORD SOUTH MAP YEAR: 1963</p>	<p>SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162</p>	<p>CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: NEW BEDFORD SOUTH MAP YEAR: 1977</p>	<p>SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162</p>	<p>CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010</p>
	<p>SERIES: 7.5 SCALE: 1:25000</p>		

# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: NEW BEDFORD MAP YEAR: 1985</p>	<p>SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162</p>	<p>CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010</p>
	<p>SERIES: 15 SCALE: 1:50000</p>		



**4 Wright Street**

4 Wright Street

New Bedford, MA 02740

Inquiry Number: 2707507.3

February 26, 2010

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

2/26/10

**Site Name:**

4 Wright Street  
4 Wright Street  
New Bedford, MA 02740

**Client Name:**

APEX Companies LLC  
115 Broad Street  
Boston, MA 02210



EDR Inquiry # 2707507.3

Contact: Mary Bruno

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by APEX Companies LLC were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

### Certified Sanborn Results:

**Site Name:** 4 Wright Street  
**Address:** 4 Wright Street  
**City, State, Zip:** New Bedford, MA 02740  
**Cross Street:**  
**P.O. #** NA  
**Project:** NA  
**Certification #** 31EA-4A7F-9832



Sanborn® Library search results  
Certification # 31EA-4A7F-9832

**Maps Provided:**

1995  
1993  
1992  
1990

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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APEX Companies LLC (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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## Sanborn Sheet Thumbnails

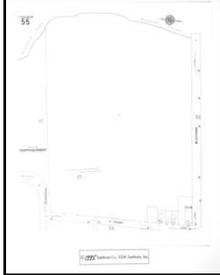
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



### 1995 Source Sheets



Volume 1, Sheet 49



Volume 1, Sheet 55

### 1993 Source Sheets



Volume 1, Sheet 55

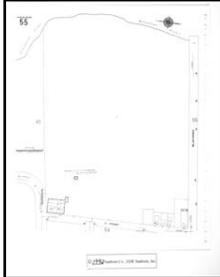


Volume 1, Sheet 49

### 1992 Source Sheets



Volume 1, Sheet 49

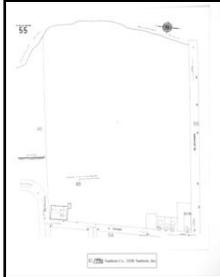


Volume 1, Sheet 55

### 1990 Source Sheets



Volume 1, Sheet 49



Volume 1, Sheet 55

# 1995 Certified Sanborn Map

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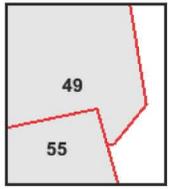
Certification # 31EA-4A7F-9832

Site Name: 4 Wright Street  
 Address: 4 Wright Street  
 City, ST, ZIP: New Bedford MA 02740  
 Client: APEX Companies LLC  
 EDR Inquiry: 2707507-3  
 Order Date: 2/26/2010 9:05:00 AM  
 Certification # 31EA-4A7F-9832

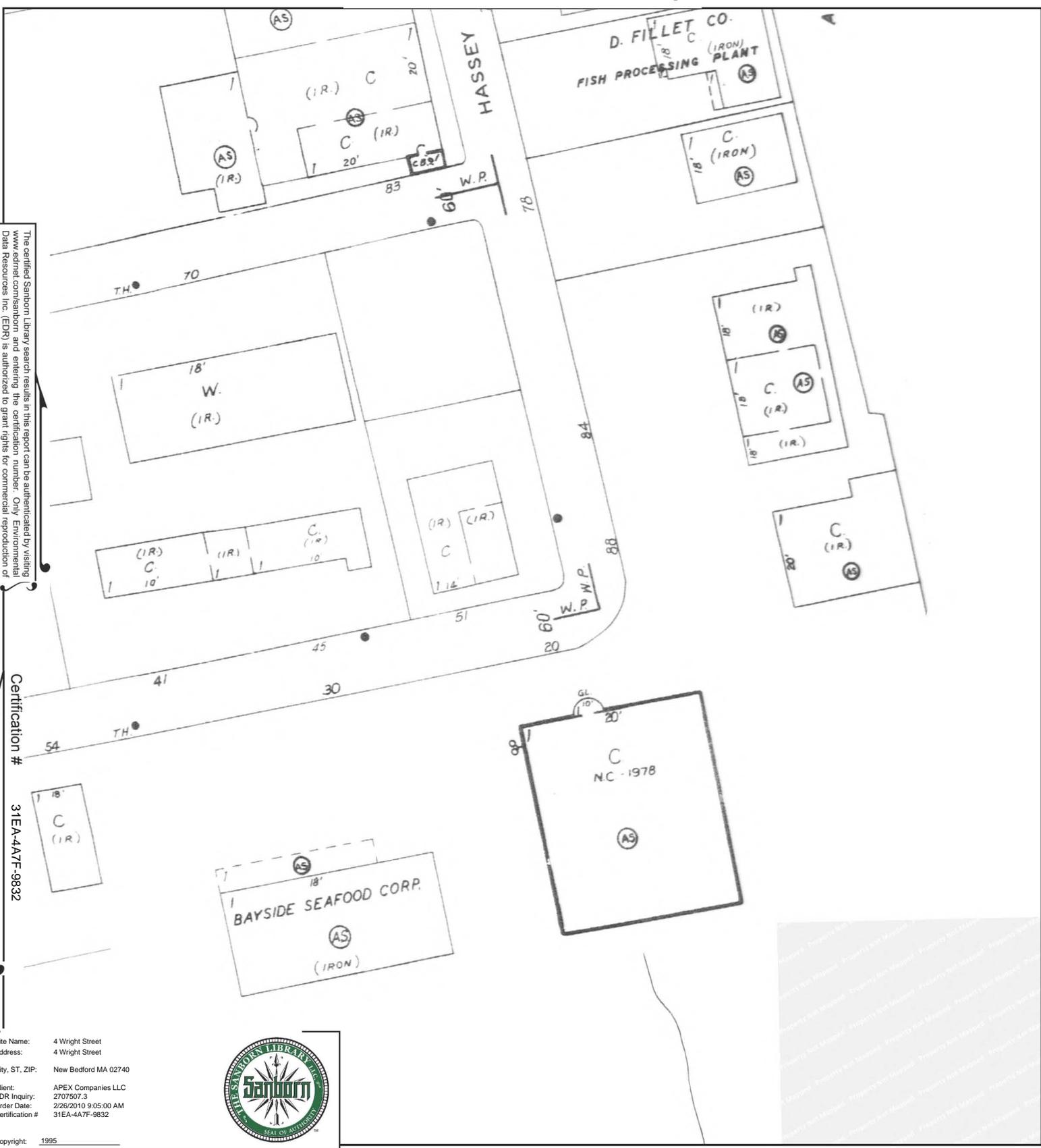
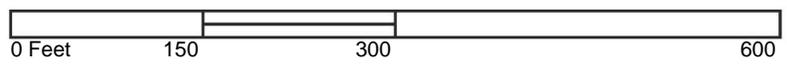


Copyright: 1995

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 1, Sheet 49  
 Volume 1, Sheet 55



# 1993 Certified Sanborn Map

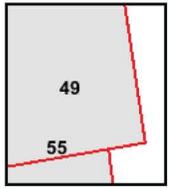
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Certification # 31EA-4A7F-9832

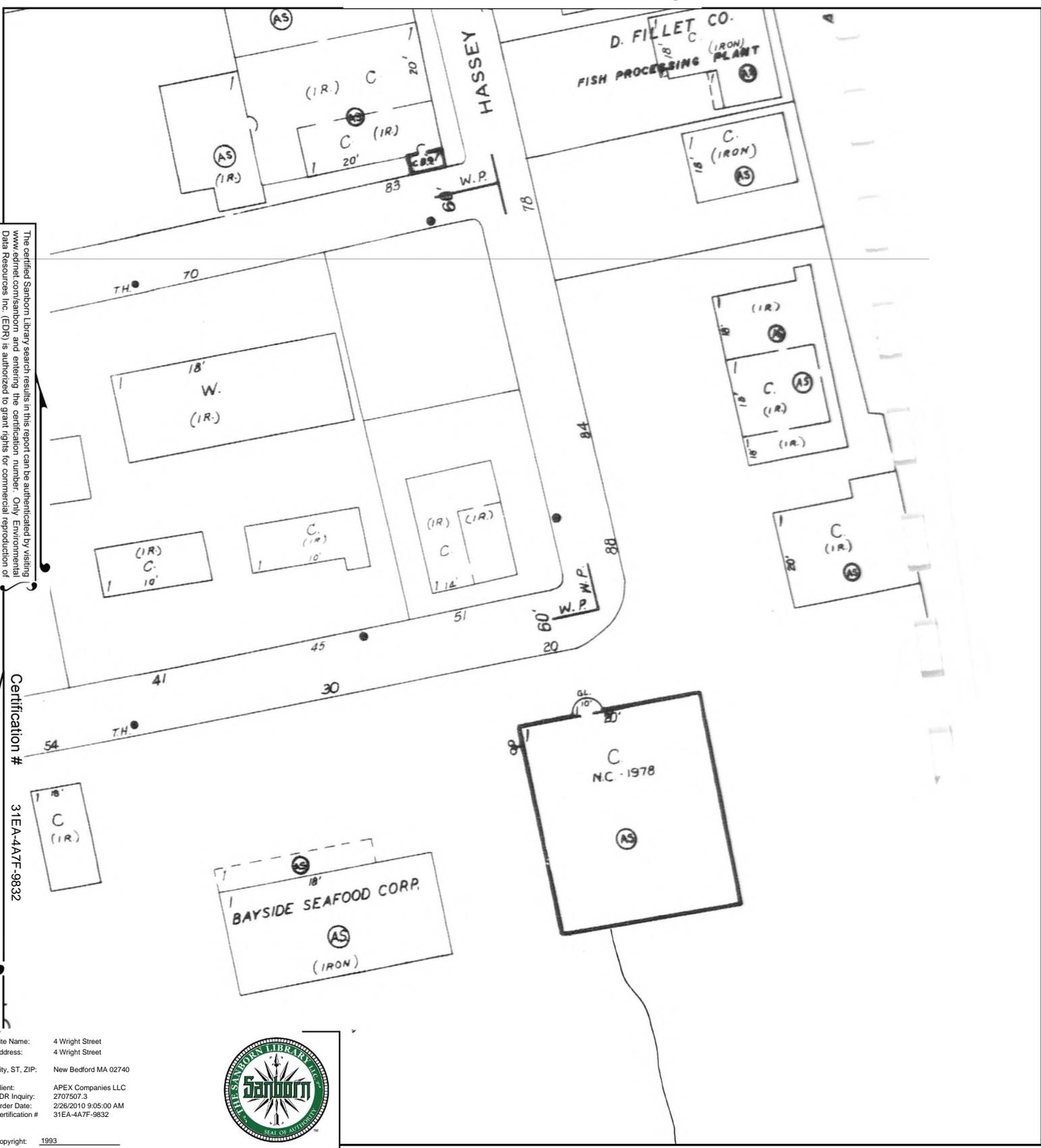
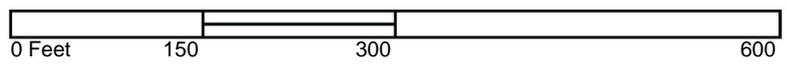
Site Name: 4 Wright Street  
 Address: 4 Wright Street  
 City, ST, ZIP: New Bedford MA 02740  
 Client: APEX Companies LLC  
 EDR Inquiry: 2707507-3  
 Order Date: 2/26/2010 9:05:00 AM  
 Certification # 31EA-4A7F-9832



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 1, Sheet 55  
 Volume 1, Sheet 49

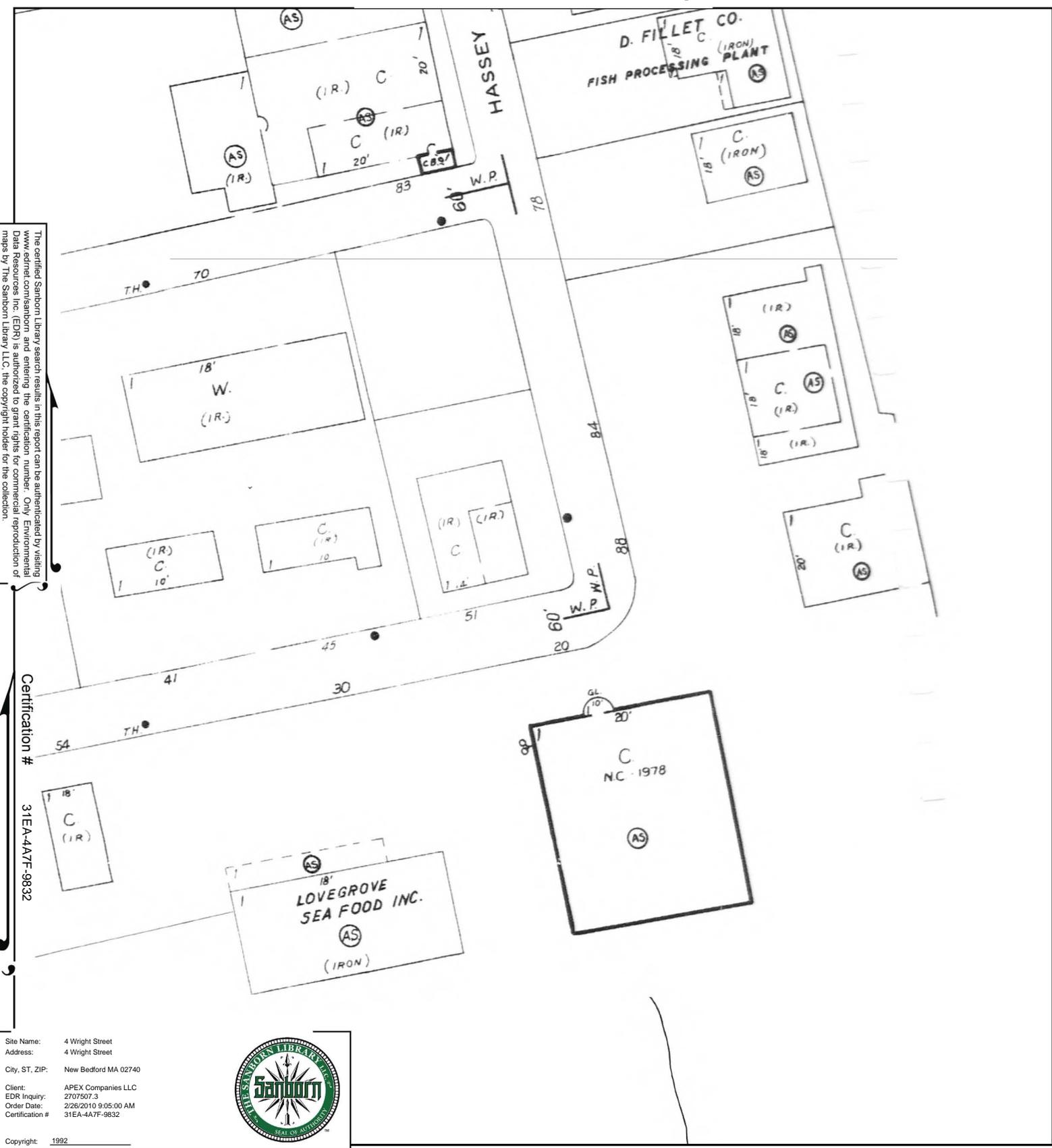


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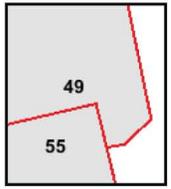
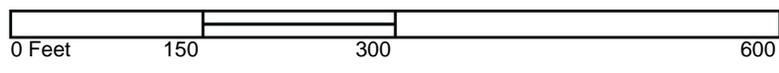
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Certification # 31EA-4A7F-9832

Site Name: 4 Wright Street  
 Address: 4 Wright Street  
 City, ST, ZIP: New Bedford MA 02740  
 Client: APEX Companies LLC  
 EDR Inquiry: 2/26/2010 9:05:00 AM  
 Order Date: 2/26/2010 9:05:00 AM  
 Certification # 31EA-4A7F-9832



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 1, Sheet 49  
 Volume 1, Sheet 55





**4 Wright Street**

4 Wright Street  
New Bedford, MA 02740

Inquiry Number: 2707507.6  
February 25, 2010

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

*Thank you for your business.*  
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## 2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

**City Directory Report.** Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

**Options for Selecting Adjoining Properties.** Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit [www.edrnet.com/2009enhancements](http://www.edrnet.com/2009enhancements)

## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2008	Cole Criss-Cross Directory	X	X	X	-
1997	Cole Criss-Cross Directory	X	X	X	-
1990	Cole Criss-Cross Directory	X	X	X	-
1985	Cole Criss-Cross Directory	X	X	X	-

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

4 Wright Street  
New Bedford, MA 02740

### FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Shuster Corp	Cole Criss-Cross Directory
1997	Shuster Corp	Cole Criss-Cross Directory
1990	J&M Shellfish Inc	Cole Criss-Cross Directory
	Shuster Corp	Cole Criss-Cross Directory
1985	Marquest Corp	Cole Criss-Cross Directory
	Shuster Corp	Cole Criss-Cross Directory

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### Wright Street

#### **Wright Street**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	No address listings prior to the Target Property	Cole Criss-Cross Directory
1997	No address listings prior to the Target Property	Cole Criss-Cross Directory
1990	No address listings prior to the Target Property	Cole Criss-Cross Directory
1985	No address listings prior to the Target Property	Cole Criss-Cross Directory

#### **18 Wright Street**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Qualiy Custom Packaging	Cole Criss-Cross Directory
1997	Bay Side Seaafd Crp	Cole Criss-Cross Directory
1990	Lovegrove Seafood	Cole Criss-Cross Directory

#### **25 Wright Street**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Fair Tide Shellfish Ltd	Cole Criss-Cross Directory
	US Seafood Adventures Ltd	Cole Criss-Cross Directory
1997	Imperl Filt Co Inc	Cole Criss-Cross Directory
1990	New England Salted	Cole Criss-Cross Directory
	Salty Cod Fish Mkt	Cole Criss-Cross Directory
1985	New England Salted	Cole Criss-Cross Directory
	Pacheco Seafoods	Cole Criss-Cross Directory

#### **33 Wright Street**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	L J Fisheries Inc	Cole Criss-Cross Directory
1997	J G Seafood Co Inc	Cole Criss-Cross Directory
	Sea FrshNew Bdfrd	Cole Criss-Cross Directory
	Sea Max	Cole Criss-Cross Directory

## FINDINGS

### **ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE**

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

#### **Address Researched**

18 Wright Street

33 Wright Street

#### **Address Not Listed in Research Source**

1985

1990, 1985



**4 Wright Street**

4 Wright Street

New Bedford, MA 02740

Inquiry Number: 2707507.5

February 26, 2010

## The EDR Aerial Photo Decade Package



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography February 26, 2010

**Target Property:**

4 Wright Street

New Bedford, MA 02740

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1961	Aerial Photograph. Scale: 1"=500'	Panel #: 2441070-E8/Flight Date: May 01, 1961	EDR
1974	Aerial Photograph. Scale: 1"=500'	Panel #: 2441070-E8/Flight Date: March 27, 1974	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 2441070-E8/Flight Date: March 26, 1985	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 2441070-E8/Flight Date: March 18, 1992	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 2441070-E8/Flight Date: March 29, 1995	EDR

GS -



INQUIRY #: 2707507.5

YEAR: 1961

|—————| = 500'





**INQUIRY #:** 2707507.5

**YEAR:** 1974

**|** = 500'



**Environmental Data Resources Inc.**



INQUIRY #: 2707507.5

YEAR: 1985

|—————| = 1000'





**INQUIRY #:** 2707507.5

**YEAR:** 1992

**|** = 750'





**INQUIRY #:** 2707507.5

**YEAR:** 1995

**|—————| = 750'**



# **APPENDIX E**



"Linking Technology with Tradition"®

## Sanborn® Map Report

**Ship To:** Neeta Satam  
TRC Environmental  
116 John Street  
Lowell, MA 01852

**Order Date:** 1/3/2006    **Completion Date:** 1/5/2006  
**Inquiry #:** 1585256.1s  
**P.O. #:** na  
**Site Name:** Standard Times Field Property

**Customer Project:** na  
1151165PVC                      978-656-3693

**Address:** Blackmer/Front/Gifford  
**City/State:** New Bedford, MA 02744  
**Cross Streets:**

Based on client-supplied information, fire insurance maps for the following years were identified

1888 - 1 Map	1995 - 2 Maps
1893 - 1 Map	
1906 - 2 Maps	
1924 - 2 Maps	
1950 - 2 Maps	
1990 - 2 Maps	
1992 - 2 Maps	
1993 - 2 Maps	

**Limited Permission to Photocopy**

**Total Maps: 16**

TRC Environmental Consultants (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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## USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

### Reading Sanborn Maps

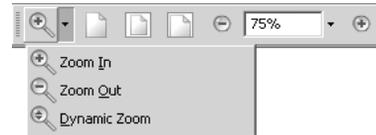
- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: <http://www.edrnet.com/reports/samples/key.pdf>

### Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

### Navigating the Electronic Sanborn Image File

1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
  - A. On the menu bar, click "View" and then "Zoom to..."
  - B. Or, use the magnifying tool and drag a box around the TP



### Printing a Sanborn Map From the Electronic File

- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

#### Acrobat Versions 6 and 7

1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.



#### Acrobat Version 5

1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.



### Important Information about Email Delivery of Electronic Sanborn Map Images

- Images are grouped into one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as "1 of 3", "2 of 3", etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.





51  
New Bedford, Mass.

4

BLACKMER

S. FRONT

50  
DELAND ST.

### ACUSHNET COTTON MILLS

(Mutual Risk)

MILL No 1.

CLOTH ROOM.

WEAVING 1 & 2<sup>nd</sup>

MILL No 2.

CARBING 1<sup>st</sup>, SPINNING 2<sup>nd</sup>, MULE SPINNING 3<sup>rd</sup>

STORE HO.

Reservoir.

TWO NIGHT WATCHMEN & ELECTRIC CLOCK.  
PUMPS & BERTS STEAM, FUEL OIL, LIGHT GAS.  
GRINDERS & AUTO. SPINNING, FIBRE OIL, SUGAR,  
SPINNING, 5<sup>th</sup> SPINNING, 1000 SIZES.  
MULES & SPINNING, 1000 SIZES, 1000 SIZES.

GIFFORD

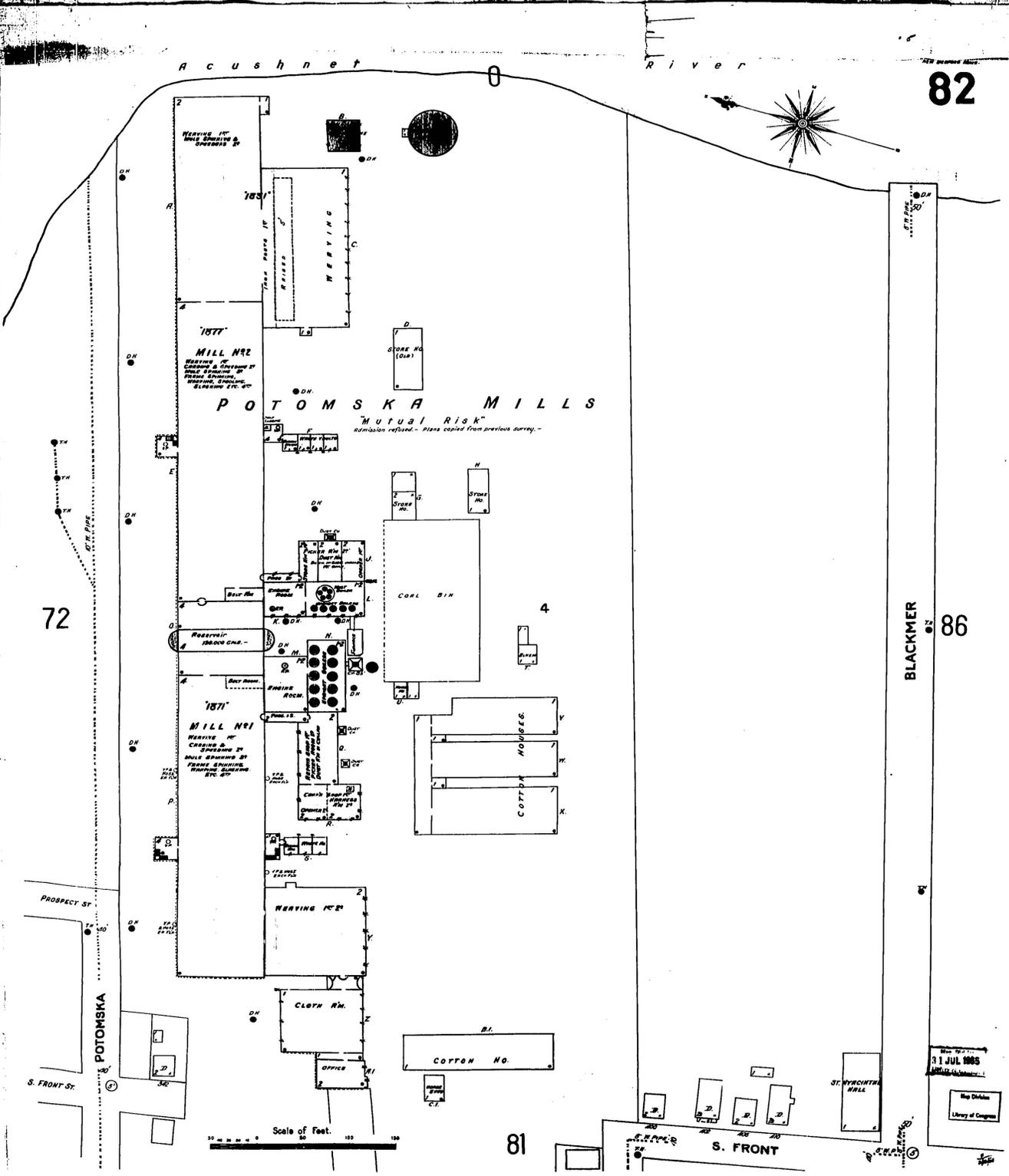
### HATHAWAY MANFG. CO. COTTON MILL

Mutual Risk.

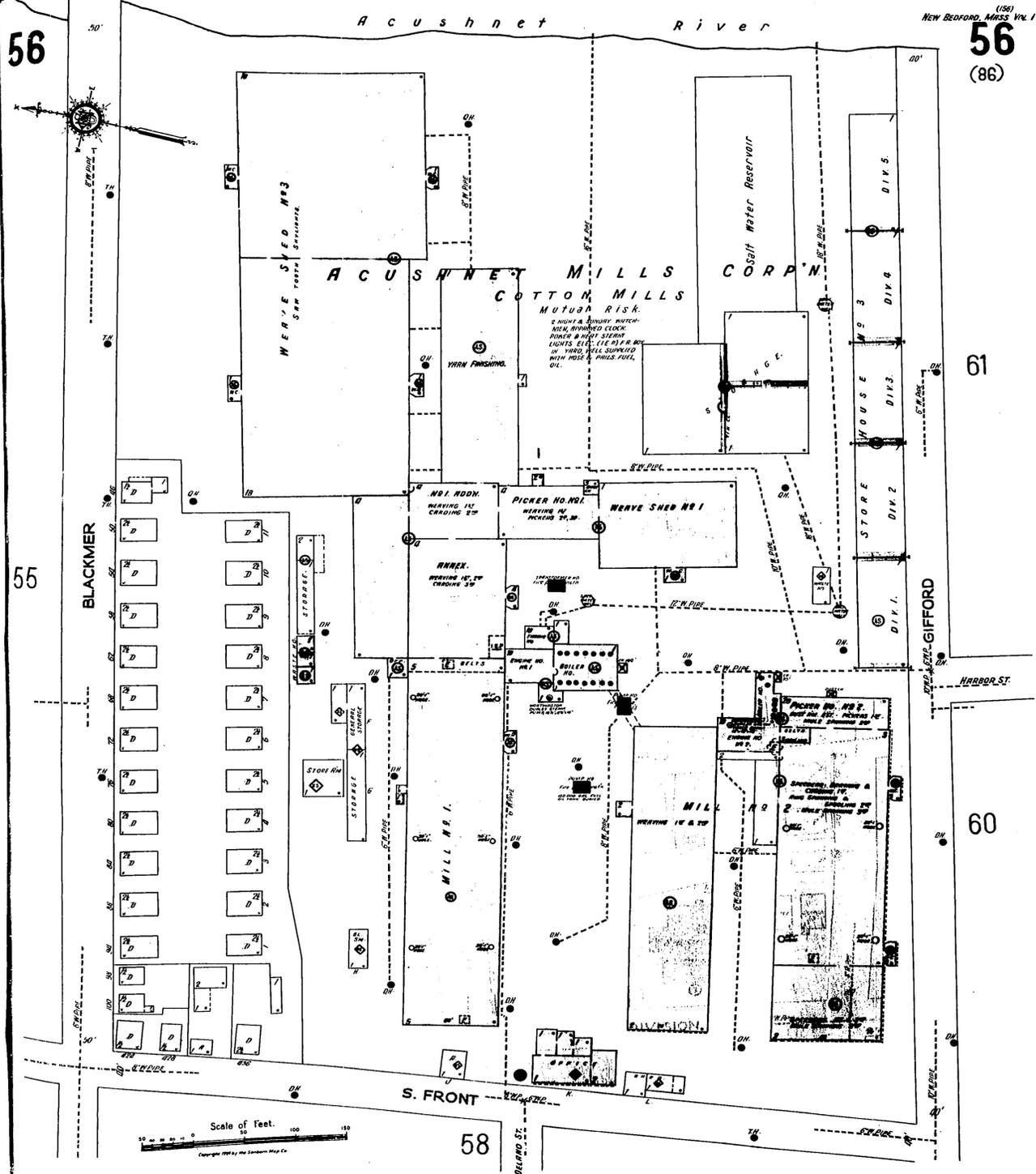
STORE HO.

Scale of Feet.









56

56  
(86)

61

60

55

58

BLACKMER

Acushnet River

(56) NEW BEDFORD, MASS. VOL. 1

ACUSHNET MILLS CORP

COTTON MILLS MUTUAL RISK

Salt Water Reservoir

WERVE SHED NO. 3

NO. 1 BLDG.

WAVE SHED NO. 1

MILL NO. 1

MILL NO. 2

PICKER NO. NO. 2

STORE HOUSE NO. 3

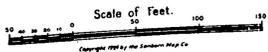
STORE HOUSE NO. 2

STORE HOUSE NO. 1

GIFFORD

HARBOUR ST.

S. FRONT

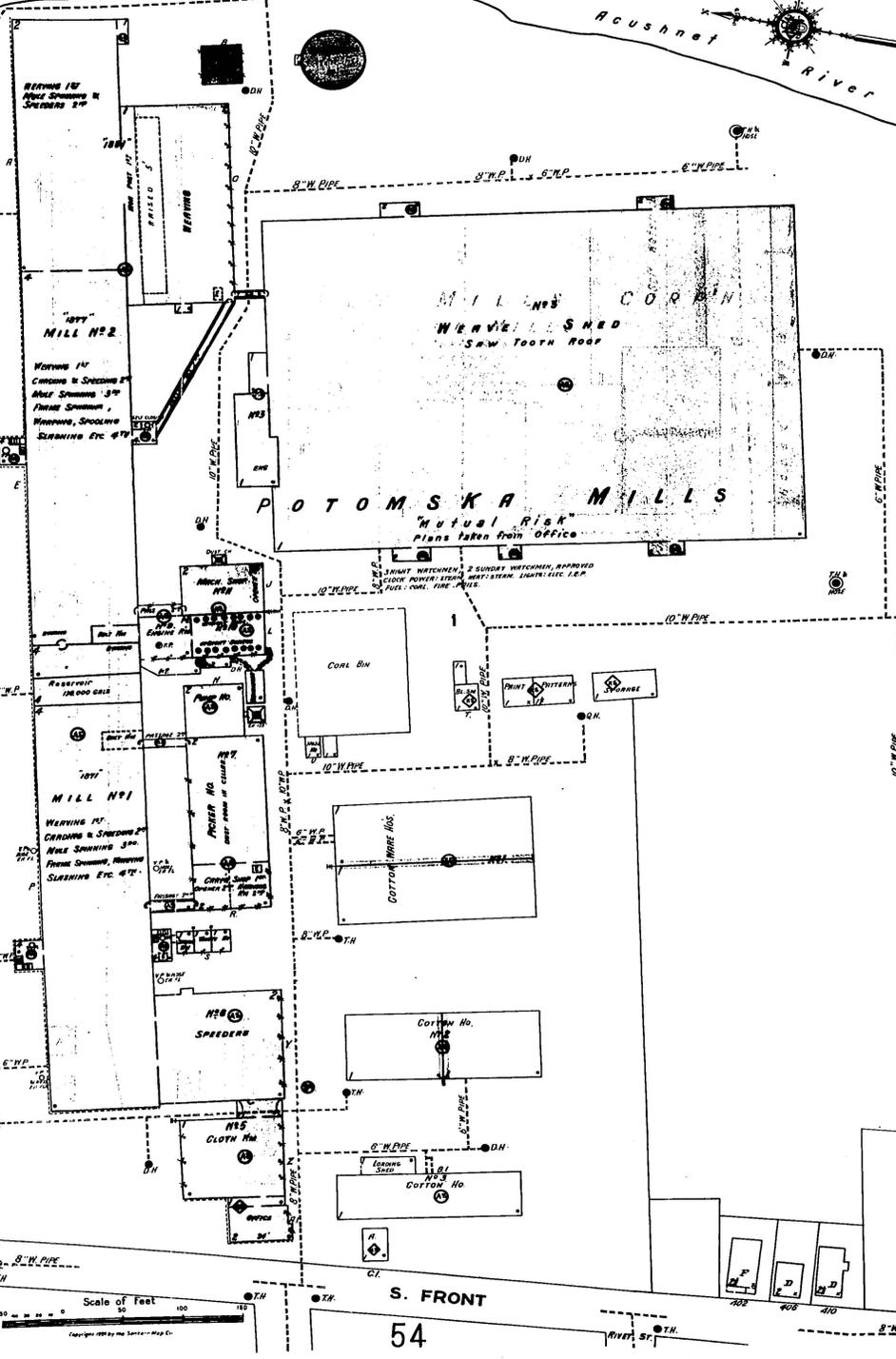
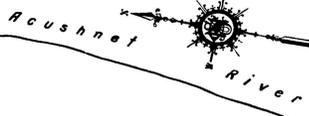


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55  
(82)

55

Acoushnet River



50

56

BLACKMER

S. FRONT  
54



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Year EDR Research Associate

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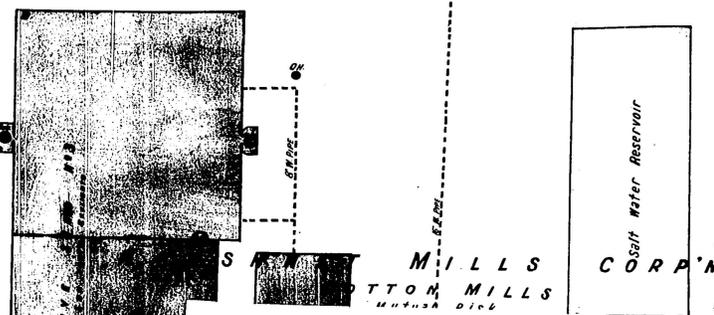
56



A c u s h n e t R i v e r

MASS. 005  
(86)  
New Bedford, MASS. Vol. 1

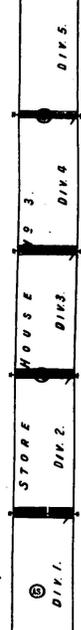
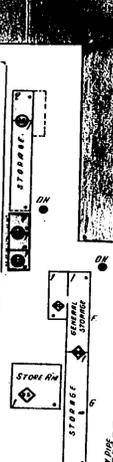
56  
(86)



ALL MILL BUILDINGS HAVE BEEN REMOVED.

55

BLACKMER



61

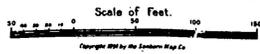
60

WATER-GIFFORD

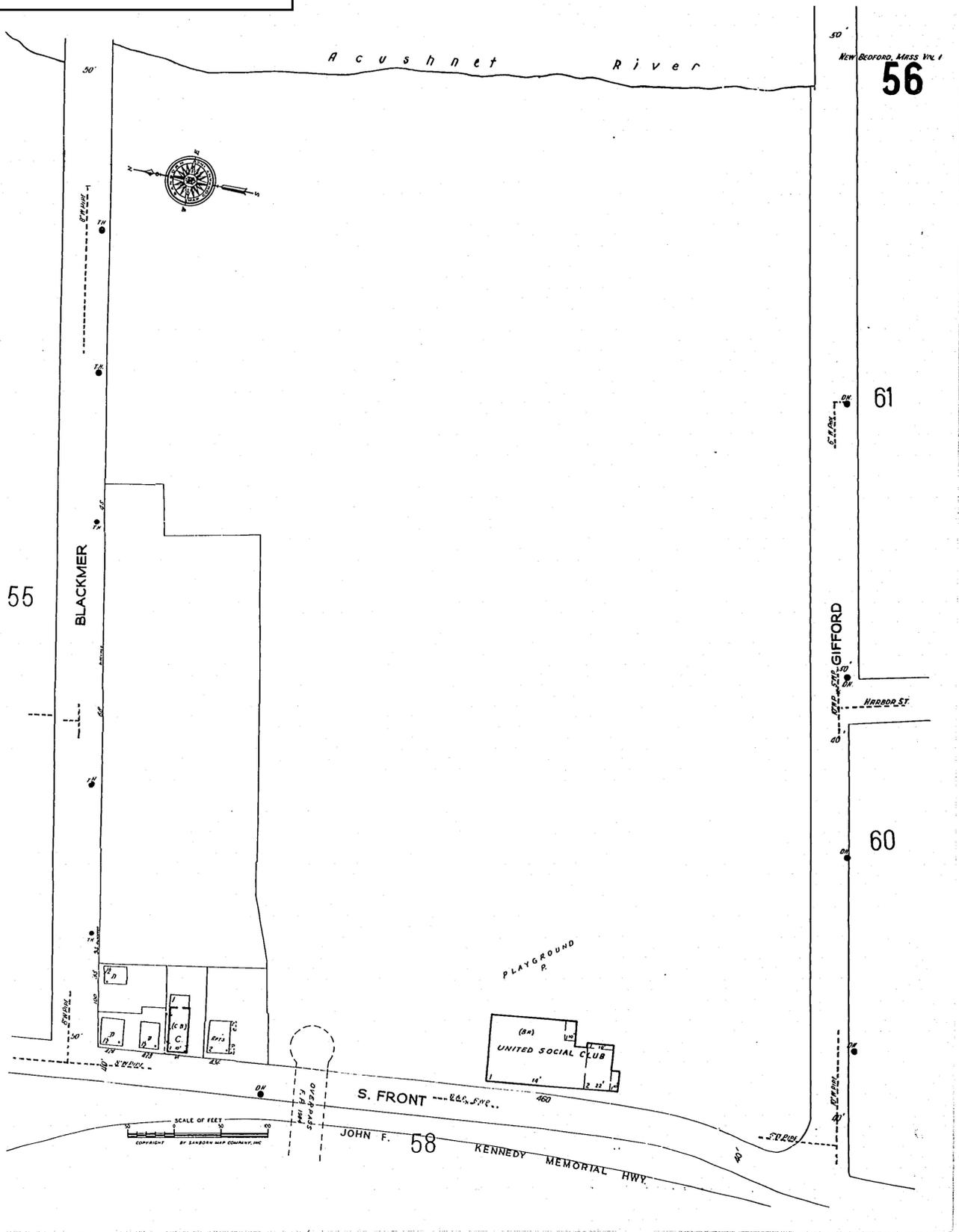
WATER ST.

S. FRONT

58







New Bedford Mass. No. 1

55

Acushnet River



49

56

BLACKMER



PROPERTY OF CITY OF NEW BEDFORD  
325' STEEL RADIO TOWER



MAC ARTHUR DR.

POTOMSKA



S. FRONT

54

River St.

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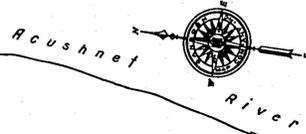
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Year EDR Research Associate

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New Bedford Mass. 1891  
**55**

Acushnet River



Acushnet River

49

30'

56

BLACKMER



PROPERTY OF CITY OF NEW BEDFORD  
275' STEEL RADIO TOWER



MIC ARTHUR DR.

POTOMSKA



S. FRONT

54

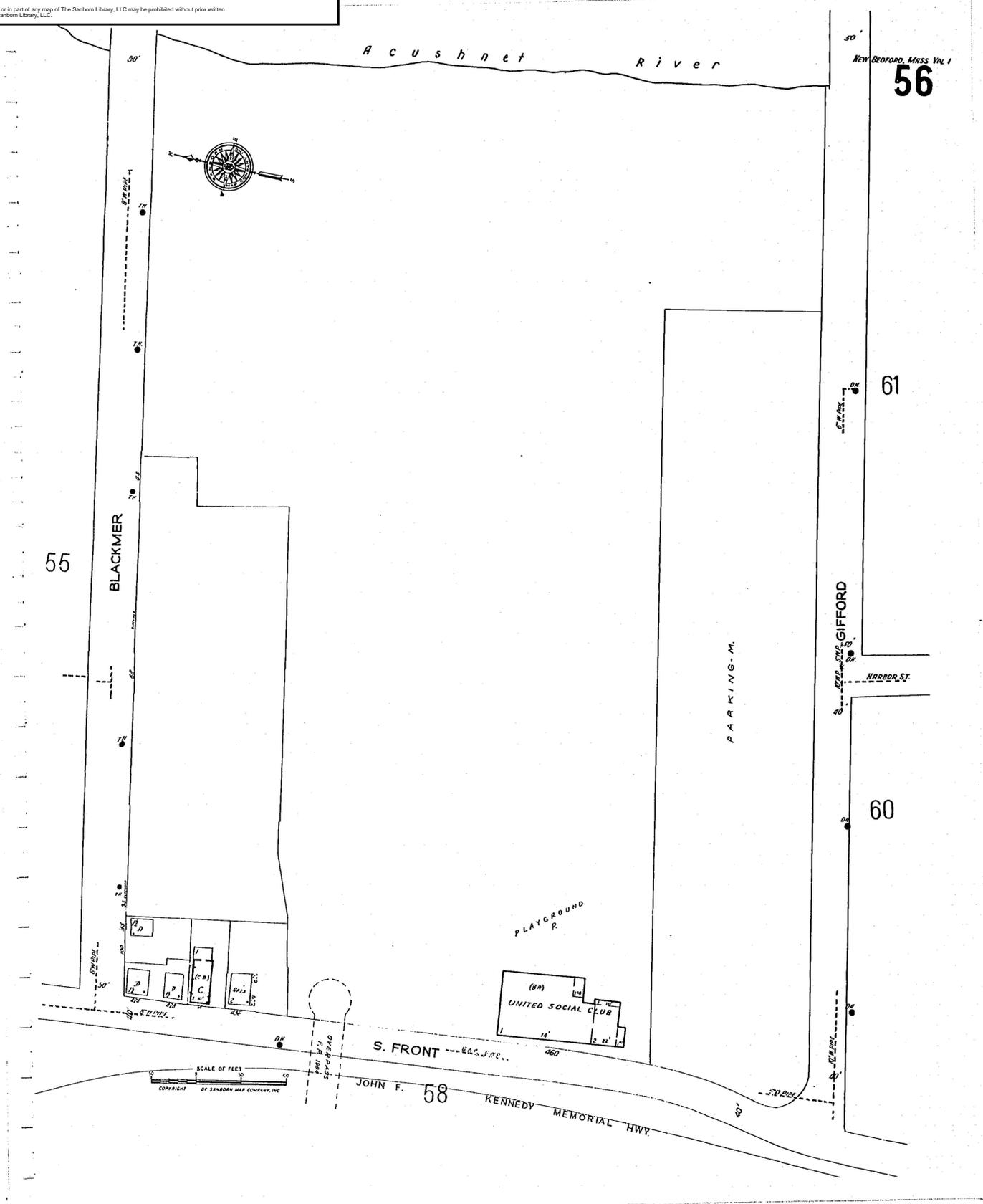


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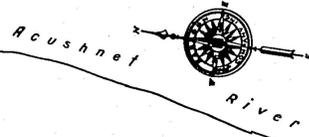
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Year TIM  
EDR Research Associate

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NEW BEDFORD MASS. No. 1  
**55**

Acushnet River



Acushnet River

49



50'  
56  
BLACKMER  
50'

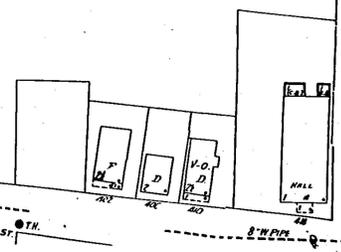
PROPERTY OF CITY OF NEW BEDFORD  
275' STEEL RADIO TOWER  
U

MAC ARTHUR DR.

POTOMSKA

S. FRONT

54

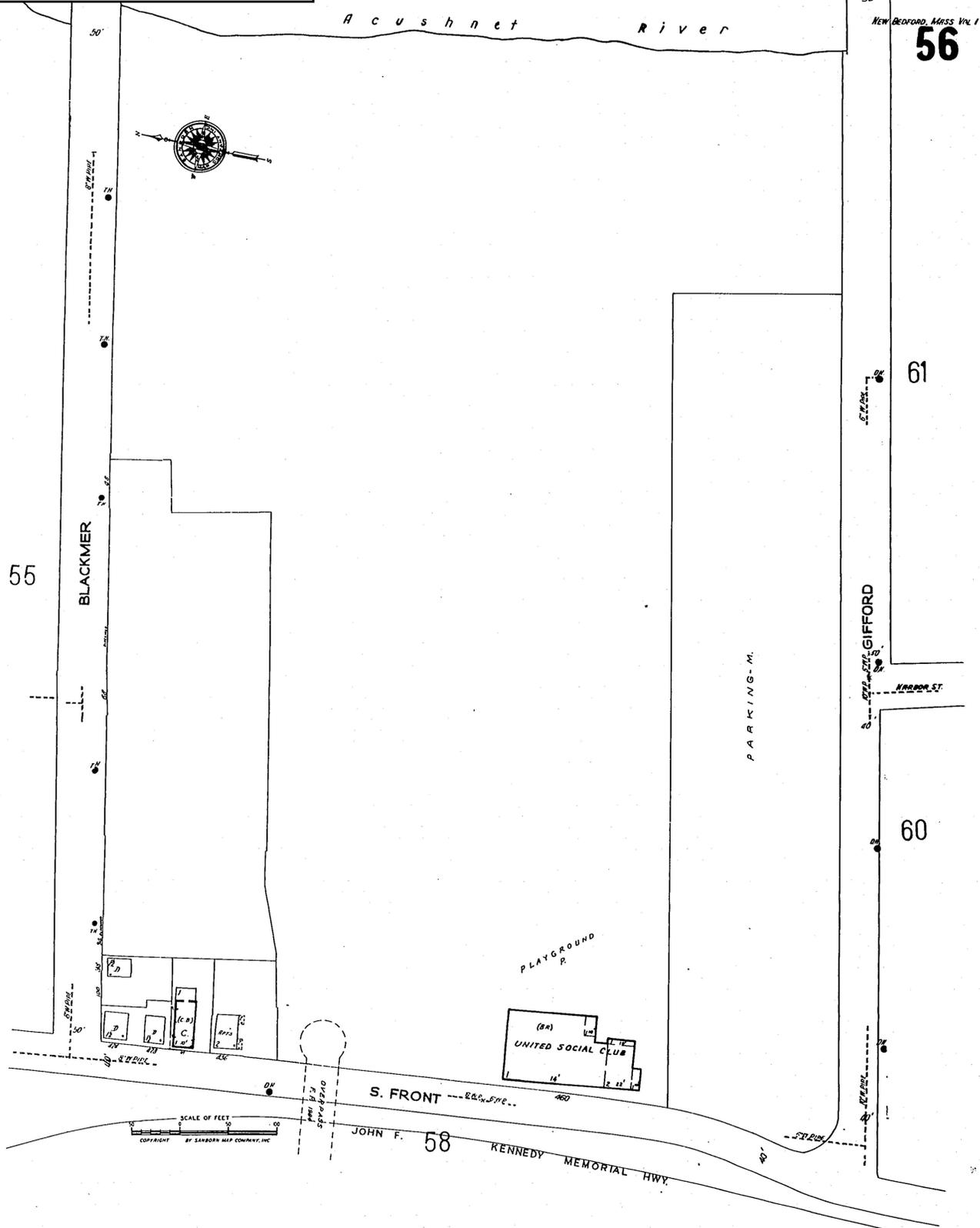


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A c u s h n e t R i v e r

NEW BEDFORD, MASS. Vol. 1

56

61

60

55

BLACKMER

GIFFORD

PARKING-M.

HARBOR ST.

PLAYGROUND P.

UNITED SOCIAL CLUB

S. FRONT

JOHN F. 58

KENNEDY MEMORIAL HWY

SCALE OF FEET

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## **APPENDIX F**

March 27, 2009

Bureau of Waste Site Cleanup  
MA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Southeast Regional Offices  
20 Riverside Drive  
Lakeville, MA 02347

**RE: CLASS A3 RESPONSE ACTION OUTCOME**  
RTN#4-15490  
16 Blackmer Street – New Bedford, Massachusetts

To Whom It May Concern:

As you are aware, the Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries currently owns the Property addressed as 16 Blackmer Street, New Bedford, Massachusetts. The Property is depicted on Assessors Map 25A, as Lots 49 and 53 and was previously known as Lot 3 of the former New Bedford Standard Times Field Site. According to public records, the Massachusetts Department of Environmental Protection (DEP) was notified of a 120-day release condition for the subject Property on May 19, 2000, and assigned Release Tracking Number (RTN) 4-15490 to the release Site which originally encompassed the subject Property and several nearby lots. Historic and recent assessments have identified the presence of elevated concentrations of polynuclear aromatic hydrocarbons (PAH) and lead in historic urban fill identified throughout the area.

The Commonwealth of Massachusetts, acting through its Department of Fish and Game, acquired the Property in July 2005 from The City of New Bedford Redevelopment Authority, who acquired the Standard Times Field Site in 1998. The redevelopment authority completed several environmental assessments and subsequently sub-divided the release site property into lots which were then sold to several different owners for commercial development and use. Through the years, each of the surrounding lots achieved regulatory closure leaving the subject Property and the southern abutting City owned drainage easement as the sole location of the regulated release. It was the intention of the current owner to purchase Property in the area for immediate use as a parking lot and ultimately for a commercial structure that will be utilized by the Department of Fish and Game for storage and office space.

Common Sense Environmental, Inc., (CSE) was retained by the Department of Fish and Game to provide environmental consulting services specific to meeting the requirements of the MCP specific to the ultimate development of the subject Property for the above stated commercial uses. Toward this end, to date CSE officially filed a Phase I/Tier Classification Report (dated May 2006) and a partial-Class B1 RAO Report (dated July 2006) with DEP. The Phase I report classified the overall release Property as a Tier II release site and a Phase II site investigation was completed to define the extent and magnitude of contamination. The results and conclusions of the environmental

investigations conducted at the Property confirmed the presence of elevated levels of lead, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH's) in soil, likely attributable to the presence of historic urban fill emplaced along the New Bedford waterfront area. The primary contaminant of concern was identified as lead and was detected at concentrations ranging from 42 mg/kg to 287 mg/kg in surface and subsurface soil (from 0 to 8 feet in depth) situated throughout the unpaved northern portion of the Property. Higher levels of lead were found in soil samples collected from the same depths beneath the currently paved southern portion of the Property at concentrations ranging from 30 to 5780 mg/kg. Other contamination detected above state reportable concentrations identified at the site generally mirrored the locations and trends exhibited by lead and specifically consisted of Benzo(a)pyrene at concentrations as high as 13 mg/kg; Dibenzo(a,h)anthracene at concentrations as high as 10 mg/kg; and petroleum hydrocarbons at concentrations as high as 900 mg/kg. Although petroleum hydrocarbon concentrations exceeded state standards at the time of measurement, subsequent changes and relaxing of said standards in 2008 effectively removed petroleum as primary contaminant of concern. Groundwater monitoring demonstrated that the release does not currently affect groundwater quality.

The PRP requested the completion of a partial RAO to allow for the immediate development of approximately 2 acres of the Property including Lot 53 and the northern portion of Lot 49. In addition, the PRP (under the direction of CSE) employed a qualified risk assessor, O'Reilly, Talbot & Okun Associates, Inc., (OTO) to complete a Method 3 Risk Assessment for the remaining southern 1.4 acres of the release Site. The proposed development plans including the placement of an asphalt parking lot and construction of a commercial structure were communicated to OTO and a draft Method 3 Risk Characterization report (August 2006) was completed to evaluate both current and the proposed future use risks. The draft risk assessment was utilized to support an April 2008 RAM Plan which detailed the construction of a paved parking lot on the southern un-closed portion of the subject Property. The RAM was completed in the Fall of 2008 and the Method 3 Report was finalized to reflect current site conditions. A full copy of the final Method 3 (October 2008) is provided as Attachment 2 of this letter in support of the Phase II CSA provided as Attachment 1.

In brief, the attached Method 3 Risk Characterization No Significant Risk to human health, safety, public welfare, and the environment exists for activities and uses consistent with current commercial/industrial uses of the Property including emergency utility work and/or any construction projects. However, a level of No Significant Risk is not supported for future unrestricted activities and uses of the southern paved portion of the Property, such as those which may result in a child's exposure through direct contact with and/or ingestion of the contaminated soil. In accordance with regulations contained at 310 CMR 40.1012 (2)(a)(1), an Activity and Use Limitation was recorded to ensure that the soil currently located beneath the paved area located on the southern portion of the Property remains inaccessible and the exposure pathways remain incomplete. The implemented Activity and Use Limitation will require the maintenance of the current pavement or other suitable physical barrier (including buildings and concrete sidewalks) so that direct contact with underlying soils is not possible by visitors to the subject Property. In addition, activities which may result in the disturbance or relocation of the underlying soil to more accessible areas was also restricted. A copy of the following presents said obligations and conditions as provided in the recorded Activity and Use Limitation.

The conceptual site model for the subject release concludes that the primary source for contaminants identified on the subject property is related to the presence of historic urban fill emplaced along the New Bedford Harbor shoreline during the early 1900's. The industrial nature of the New Bedford waterfront, combined with historic sewer outflows and the predominant use of coal as a fuel source in surrounding facilities would indicate that fill materials would contain various amounts of construction debris, ash and rubble sometimes containing hazardous materials or waste. As with most historic waterfront sites, the limits of urban fill extend well beyond Property boundaries as documented in region wide assessments and neighboring Property RAO's. No specific point source or evidence of significant waste disposal was encountered on the subject Property, but areas with elevated fill related contaminant concentrations appear to coincide with a former roadway/sewer discharge and current drainage easement located east of the current Blackmer Street terminus and along the southern Property boundary. Although the entire eastern half of the subject Property has been the subject of filling through history, it is suspected that this former roadway (which extends to the waters edge on historic maps), may have been paved or surfaced with cinder/ash and was potentially subject to occasional oil spraying during its use throughout the early 1900's. In addition to this possible scenario, the dead end waterfront road may also have been the location of historic fishing (lead sinkers) and or dumping activities throughout its history. Regardless of their genesis, elevated concentrations of lead, petroleum and PAHs have consistently been encountered in shallow soils situated within the former roadway area and in areas to the immediate north and south. This identified source has been in place for 75-100 years and has not resulted in any currently measurable impact to groundwater or the surrounding environment. Feasibility assessments completed per 310 CMR 40.0860, have concluded that achieving background at the subject release site is infeasible. No known use or storage of oil or hazardous materials has occurred at the subject property during the last 50 years.

The attached reports provide a detailed summary of response actions and assessments performed at the Site since discovery and disseminates the necessary information to support the permanent closure of RTN# 4-15490 under the category of a Class A3 - Response Action Outcome (RAO). This submittal ensures continued compliance with the provisions of the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP). When filed with the DEP, this Class A3 RAO designates that studies completed to assess the subject release have demonstrated that a level of No Significant Risk exists, but such a level of No Significant Risk is contingent upon an Activity and Use Limitation which has been implemented at the disposal site pursuant to 310 CMR 40.1012. Additionally, no remaining contaminant concentrations on the subject property were found to exceed applicable Upper Concentration Limits listed at 310 CMR 40.0996(7).

An attempt was made to prepare this report as a stand alone document, providing a detailed summary of historical events, response actions, analytical data and risk assessments generated by CSE and multiple former environmental consultants. This report also contains a re-interpretation of comprehensive site assessment details (and plans) as understood by the successor LSP-of-Record, based on his understanding of the complete informational database available at the time this report was prepared. Where available, laboratory reports for data utilized in the calculation of exposure point concentrations or in support of Method 3 Risk Assessment statements have been attached to the RAO report for ease of reference. Additional supporting documentation provided as Appendices for the previously submitted Phase I report have not been duplicated in this report.

The appropriate Massachusetts BWSC Transmittal forms, public notice documentation, AUL documents and Feasibility Analysis complete the MCP requirements for this closure option and are all provided with the attached reports as necessary. These documents have been completed by Common Sense Environmental, Inc. with Mr. Kevin J. Beaulieu, LSP of Record for the Property (LSP#1699), whose seal and signature appears on the BWSC Transmittal Forms attached herewith. As required by the MCP, public officials must be notified of the filing and availability of this report. In addition, a copy of the recorded AUL implemented as part of this closure is to be provided to public officials within 30 days of recording with the Registry of Deeds. As such, by copying this cover letter (with an attached copy of the recorded AUL) to local municipal offices, the public notification requirements mandated by 310 CMR 40.1403(3)f and 40.1403(7) are hereby addressed. The complete RAO and Method 3 Risk Characterization Reports with all required supporting documentation is available for review at both the Southeast Regional DEP office in Lakeville, Massachusetts and Common Sense Environmental, Inc., of South Dartmouth, Massachusetts. If you have any further questions or concerns, please feel free to contact our office at any time.

Sincerely,  
For COMMON SENSE ENVIRONMENTAL, INC.

*Cynthia S. Gilchrest 3/24/09* *Kevin Beaulieu*

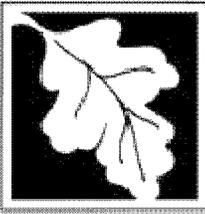
Cynthia S. Gilchrest  
President

Kevin J. Beaulieu, LSP  
Wave 2 Environmental, Inc.

**Attachments:**

- BWSC 104 - RAO Transmittal Form
- BWSC 108 - CRA Transmittal Form
- BWSC 113 - AUL Transmittal Form
- Class A3 Response Action Outcome Report
- Method 3 Risk Characterization Report (OTO, October 2008)

cc: Kevin Creighton, Massachusetts Department of Fish & Game, 251 Causeway Street, Suite 400, Boston, MA 02114  
City of New Bedford Board of Health, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)  
City of New Bedford Mayor's Office, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)  
City of New Bedford Zoning Official, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)  
City of New Bedford Building Code Enforcement Official, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)  
Scott Alphonse, Director, City of New Bedford Environmental Stewardship, 133 William Street, Rm 311, New Bedford, MA 02744



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

4 - 15490

For sites with multiple RTNs, enter the Primary RTN above.

**A. SITE LOCATION:**

1. Site Name/Location Aid: **LOT 4**

2. Street Address: **BLACKMER ST**

3. City/Town: **NEW BEDFORD** 4. ZIP Code: **027400000**

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

a. Tier IA  b. Tier IB  c. Tier IC  d. Tier II

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

**B. THIS FORM IS BEING USED TO:** (check all that apply)

1. List Submittal Date of RAO Statement (if previously submitted):  mm/dd/yyyy

2. Submit a **Response Action Outcome (RAO) Statement**

a. Check here if this RAO Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) covered by this RAO Statement.  -   -

3. Submit a **Revised Response Action Outcome Statement**

a. Check here if this Revised RAO Statement covers additional Release Tracking Numbers (RTNs), not listed on the RAO Statement or previously submitted Revised RAO Statements. RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) covered by this RAO Statement.  -   -

4. Submit a **Response Action Outcome Partial (RAO-P) Statement**

Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This RAO Statement will record only an RAO-Partial Statement for that RTN. A final RAO Statement will need to be submitted that references all RAO-Partial Statements and, if applicable, covers any remaining conditions not covered by the RAO-Partial Statements.

Also, specify if you are an Eligible Person or Tenant pursuant to M.G.L. c. 21E s.2, and have no further obligation to conduct response actions on the remaining portion(s) of the disposal site:

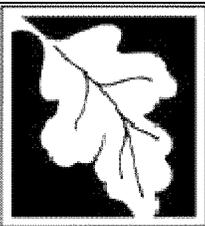
a. Eligible Person  b. Eligible Tenant

5. Submit an optional **Phase I Completion Statement** supporting an RAO Statement

6. Submit a **Periodic Review Opinion evaluating the status of a Temporary Solution** for a Class C-1 RAO Statement, as specified in 310 CMR 40.1051 (Section F is optional)

7. Submit a **Retraction** of a previously submitted **Response Action Outcome Statement** (Sections E & F are not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Release Tracking Number

-

Pursuant to 310 CMR 40.1000 (Subpart J)

**C. DESCRIPTION OF RESPONSE ACTIONS:** (check all that apply; for volumes, list cumulative amounts)

- 1. Assessment and/or Monitoring Only
- 2. Temporary Covers or Caps
- 3. Deployment of Absorbent or Containment Materials
- 4. Treatment of Water Supplies
- 5. Structure Venting System
- 6. Engineered Barrier
- 7. Product or NAPL Recovery
- 8. Fencing and Sign Posting
- 9. Groundwater Treatment Systems
- 10. Soil Vapor Extraction
- 11. Bioremediation
- 12. Air Sparging
- 13. Monitored Natural Attenuation
- 14. In-situ Chemical Oxidation
- 15. Removal of Contaminated Soils

a. Re-use, Recycling or Treatment  i. On Site Estimated volume in cubic yards \_\_\_\_\_

ii. Off Site Estimated volume in cubic yards \_\_\_\_\_

ii.a. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

ii.b. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

iii. Describe: \_\_\_\_\_

b. Landfill

i. Cover Estimated volume in cubic yards \_\_\_\_\_

Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

ii. Disposal Estimated volume in cubic yards \_\_\_\_\_

Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

16. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: \_\_\_\_\_

b. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

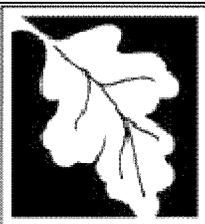
c. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

17. Removal of Other Contaminated Media:

a. Specify Type and Volume: \_\_\_\_\_

b. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

c. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Release Tracking Number

4 - 15490

Pursuant to 310 CMR 40.1000 (Subpart J)

**C. DESCRIPTION OF RESPONSE ACTIONS (cont.):** (check all that apply; for volumes, list cumulative amounts)

18. Other Response Actions:

Describe: PAVED SITE UNDER A RAM (APRIL 2008)

19. Use of Innovative Technologies:

Describe: \_\_\_\_\_

**D. SITE USE:**

1. Are the response actions that are the subject of this submittal associated with the *redevelopment, reuse* or the *major expansion of the current use* of property(ies) impacted by the presence of oil and/or hazardous materials?

a. Yes     b. No     c. Don't know

2. Is the property a *vacant or under-utilized commercial or industrial* property ("a brownfield property")?

a. Yes     b. No     c. Don't know

3. Will funds from a state or federal brownfield incentive program be used on one or more of the property(ies) within the disposal site?

a. Yes     b. No     c. Don't know    If Yes, identify program(s): \_\_\_\_\_

4. Has a Covenant Not to Sue been obtained or sought?

a. Yes     b. No     c. Don't know

5. Check all applicable categories that apply to the person making this submittal:     a. Redevelopment Agency or Authority

b. Community Development Corporation     c. Economic Development and Industrial Corporation

d. Private Developer     e. Fiduciary     f. Secured Lender     g. Municipality

h. Potential Buyer (non-owner)     i. Other, describe: COMMONWEALTH OF MASSACHUSETTS

**This data will be used by MassDEP for information purposes only, and does not represent or create any legal commitment, obligation or liability on the part of the party or person providing this data to MassDEP.**

**E. RESPONSE ACTION OUTCOME CLASS:**

Specify the Class of Response Action Outcome that applies to the disposal site, or site of the Threat of Release. Select **ONLY** one Class.

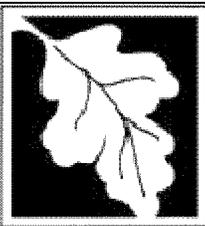
1. **Class A-1 RAO:** Specify one of the following:

a. Contamination has been reduced to background levels.     b. A Threat of Release has been eliminated.

2. **Class A-2 RAO:** You **MUST** provide justification that reducing contamination to or approaching background levels is infeasible.

3. **Class A-3 RAO:** You **MUST** provide an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to or approaching background levels is infeasible.

4. **Class A-4 RAO:** You **MUST** provide an implemented AUL, justification that reducing contamination to or approaching background levels is infeasible, and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface or below an Engineered Barrier is infeasible. If the Permanent Solution relies upon an Engineered Barrier, you must provide or have previously provided a Phase III Remedial Action Plan that justifies the selection of the Engineered Barrier.



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

-

**E. RESPONSE ACTION OUTCOME CLASS (cont.):**

- 5. **Class B-1 RAO: Specify one of the following:**
  - a. Contamination is consistent with background levels
  - b. Contamination is **NOT** consistent with background levels.
- 6. **Class B-2 RAO:** You **MUST** provide an implemented AUL.
- 7. **Class B-3 RAO:** You **MUST** provide an implemented AUL and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface is infeasible.
- 8. **Class C-1 RAO:** You must submit a plan as specified at 310 CMR 40.0861(2)(h). Indicate type of ongoing response actions.
  - a. Active Remedial System
  - b. Active Remedial Monitoring Program
  - c. None
  - d. Other Specify: \_\_\_\_\_
- 9. **Class C-2 RAO:** You must hold a valid Tier I Permit or Tier II Classification to continue response actions toward a Permanent Solution.

**F. RESPONSE ACTION OUTCOME INFORMATION:**

1. Specify the Risk Characterization Method(s) used to achieve the RAO described above:
  - a. Method 1
  - b. Method 2
  - c. Method 3
  - d. Method Not Applicable-Contamination reduced to or consistent with background, or Threat of Release abated
2. Specify all Soil Category(ies) applicable. More than one Soil Category may apply at a Site. Be sure to check off all **APPLICABLE** categories:
 

<input type="checkbox"/> a. S-1/GW-1	<input type="checkbox"/> d. S-2/GW-1	<input type="checkbox"/> g. S-3/GW-1
<input type="checkbox"/> b. S-1/GW-2	<input checked="" type="checkbox"/> e. S-2/GW-2	<input checked="" type="checkbox"/> h. S-3/GW-2
<input type="checkbox"/> c. S-1/GW-3	<input checked="" type="checkbox"/> f. S-2/GW-3	<input checked="" type="checkbox"/> i. S-3/GW-3
3. Specify all Groundwater Category(ies) impacted. A site may impact more than one Groundwater Category. Be sure to check off all **IMPACTED** categories:
  - a. GW-1
  - b. GW-2
  - c. GW-3
  - d. No Groundwater Impacted
4. Specify remediation conducted:
  - a. Check here if soil remediation was conducted.
  - b. Check here if groundwater remediation was conducted.
5. Specify whether the analytical data used to support the Response Action Outcome was generated pursuant to the Department's Compendium of Analytical Methods (CAM) and 310 CMR 40.1056:
  - a. CAM used to support all analytical data.
  - b. CAM used to support some of the analytical data.
  - c. CAM not used.
6. Check here to certify that the Class A, B or C Response Action Outcome includes a Data Usability Assessment and Data Representativeness Evaluation pursuant to 310 CMR 40.1056.
7. Estimate the number of acres this RAO Statement applies to:



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

4 - 15490

Pursuant to 310 CMR 40.1000 (Subpart J)

G. 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 CMR 4.03(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 either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

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 #: 1699

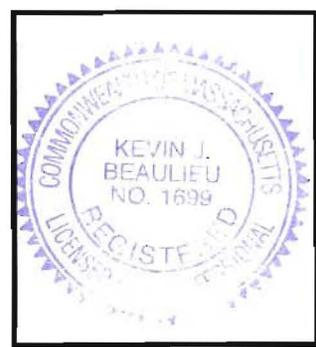
2. First Name: KEVIN J 3. Last Name: BEAULIEU

4. Telephone: 5088633102 5. Ext.: 6. FAX:

7. Signature: Kevin Beaulieu

8. Date: 03/26/2009  
mm/dd/yyyy

9 LSP Stamp:



H. PERSON MAKING SUBMITTAL:

1. Check all that apply:  a. change in contact name  b. change of address  c. change in the person undertaking response actions

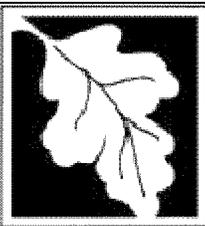
2. Name of Organization: COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GAME, DIV. OF MARINE FISH

3. Contact First Name: KEVIN 4. Last Name: CREIGHTON

5. Street: 251 CAUSEWAY STREET, SUITE 400 6. Title: CHIEF FISCAL OFFICER

7. City/Town: BOSTON 8. State: MA 9. ZIP Code: 02114-0000

10. Telephone: (617) 626-1537 11. Ext.: 12. FAX:



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

Pursuant to 310 CMR 40.1000 (Subpart J)

4 - 15490

I. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:

- 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 Making Submittal Specify Relationship: \_\_\_\_\_

J. REQUIRED ATTACHMENT AND SUBMITTALS:

- 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
- 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of an RAO Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.
- 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a RAO Statement with instructions on how to obtain a full copy of the report.
- 4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this RAO Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.
- 5. Check here to certify that, pursuant to 310 CMR 40.1406, notice was provided to the owner(s) of each property within the disposal site boundaries, or notice was not required because the disposal site boundaries are limited to property owned by the party conducting response actions. (check all that apply)
  - a. Notice was provided prior to, or concurrent with the submittal of a Phase II Completion Statement to the Department.
  - b. Notice was provided prior to, or concurrent with the submittal of this RAO Statement to the Department.
  - c. Notice not required.
  - d. Total number of property owners notified, if applicable: 1
- 6. Check here if required to submit one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for Class A-3, A-4, B-2, B-3 RAO Statements)
  - a. Notice of Activity and Use Limitation
  - b. Number of Notices submitted: 1
  - c. Grant of Environmental Restriction
  - d. Number of Grants submitted: \_\_\_\_\_
- 7. If an RAO Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that an RAO Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.
- 8. 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.
- 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

4 - 15490

**K. CERTIFICATION OF PERSON MAKING SUBMITTAL:**

1. I, Kevin Creighton, 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.

2. By: Kevin Creighton Signature 3. Title: CHIEF FISCAL OFFICER

4. For: COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GA 5. Date: 3/17/2004  
(Name of person or entity recorded in Section H) mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section H.

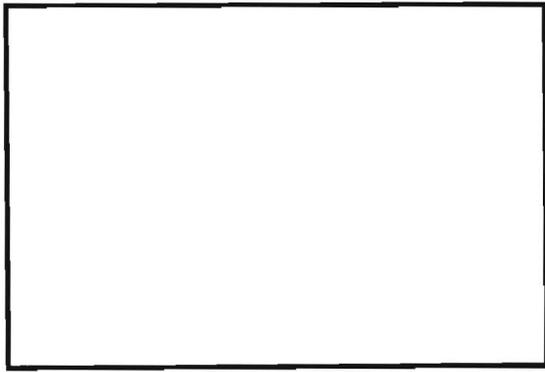
7. Street: \_\_\_\_\_

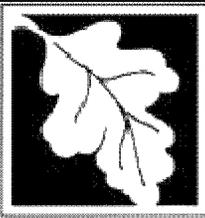
8. City/Town: \_\_\_\_\_ 9. State: \_\_\_\_\_ 10. ZIP Code: \_\_\_\_\_

11. Telephone: \_\_\_\_\_ 12. Ext.: \_\_\_\_\_ 13. 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:)





**COMPREHENSIVE RESPONSE ACTION TRANSMITTAL  
FORM & PHASE I COMPLETION STATEMENT**

Release Tracking Number

4 - 15490

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

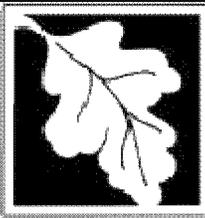
**A. SITE LOCATION:**

1. Site Name: **LOT 4**
2. Street Address: **BLACKMER ST**
3. City/Town: **NEW BEDFORD** 4. ZIP Code: **02740000**
5. UTM Coordinates: a. UTM N:  b. UTM E:
6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.  
 a. Tier IA  b. Tier IB  c. Tier IC  d. Tier II
7. If applicable, provide the Permit Number: \_\_\_\_\_

**B. THIS FORM IS BEING USED TO:** (check all that apply)

1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.
4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.
5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.
12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.
13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.
- Specify the outcome of Phase IV activities: (check one)
- a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.
- b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

**(All sections of this transmittal form must be filled out unless otherwise noted above)**



**COMPREHENSIVE RESPONSE ACTION TRANSMITTAL  
FORM & PHASE I COMPLETION STATEMENT**

Release Tracking Number

-

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

**B. THIS FORM IS BEING USED TO (cont.):** (check all that apply)

- 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.
- 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.
- 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)
  - a. Type of Report: (check one)  i. Initial Report  ii. Interim Report  iii. Final Report
  - b. Frequency of Submittal: (check all that apply)
    - i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.
    - ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.
    - iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.
  - c. Status of Site: (check one)  i. Phase V  ii. Remedy Operation Status  iii. Class C RAO
  - d. Number of Remedial Systems and/or Monitoring Programs:

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

- 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.
- 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).
- 19. Submit a **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).
- 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).
- 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

- a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.
  - b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
  - c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.
  - 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

**(All sections of this transmittal form must be filled out unless otherwise noted above)**



COMPREHENSIVE RESPONSE ACTION TRANSMITTAL  
FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number

4 - 15490

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

C. 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 CMR 4.03(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 **Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that a **Phase II Scope of Work or a Phase IV Remedy Implementation Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that an **As-Built Construction Report, a Remedy Operation Status, a Phase IV, Phase V or Post-Class C RAO Status Report, a Status Report to Maintain a Remedy Operation Status and/or a Remedial Monitoring Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

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 #: 1699

2. First Name: KEVIN J 3. Last Name: BEAULIEU

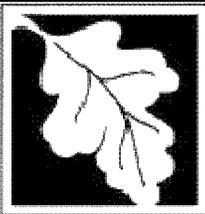
4. Telephone: 5088633102 5. Ext.: 6. FAX:

7. Signature: Kevin Beaulieu

8. Date: 03/26/2009  
(mm/dd/yyyy)

9. LSP Stamp:





**COMPREHENSIVE RESPONSE ACTION TRANSMITTAL  
FORM & PHASE I COMPLETION STATEMENT**

Release Tracking Number

4 - 15490

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

**D. PERSON UNDERTAKING RESPONSE ACTIONS:**

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: **COMMONWEALTH OF MASSACHUSETTS, DEPT. OF FISH & GAME, DIV. OF MARINE FIS**
3. Contact First Name: **KEVIN** 4. Last Name: **CREIGHTON**
5. Street: **251 CAUSEWAY STREET, SUITE 400** 6. Title: **CHIEF FISCAL OFFICER**
7. City/Town: **BOSTON** 8. State: **MA** 9. ZIP Code: **021140000**
10. Telephone: **6176261537** 11. Ext.:  12. FAX:

**E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:**

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 Undertaking Response Actions Specify Relationship:

**F. REQUIRED ATTACHMENT AND SUBMITTALS:**

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.
3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.
4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.
5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.
6. If submitting a Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.
7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.
8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.
9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



**COMPREHENSIVE RESPONSE ACTION TRANSMITTAL  
FORM & PHASE I COMPLETION STATEMENT**

Release Tracking Number

4 - 15490

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

**G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:**

1. I, Kevin Creighton, 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.

2. By: [Signature] Signature 3. Title: CHIEF FINANCIAL OFFICER

4. For: COMMONWEALTH OF MASSACHUSETTS, DEPT. OF FISH & G 5. Date: 3/17/2005  
(Name of person or entity recorded in Section D) (mm/dd/yyyy)

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

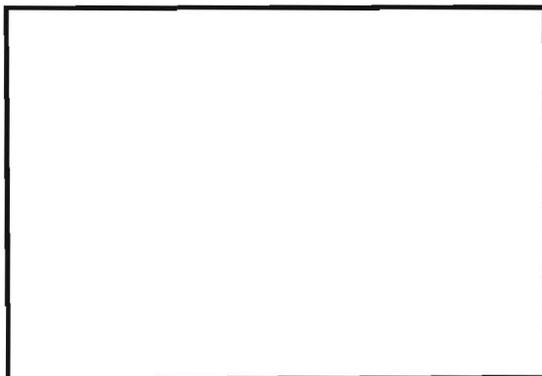
7. Street: \_\_\_\_\_

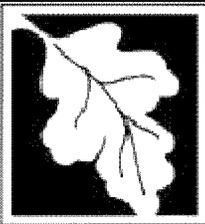
8. City/Town: \_\_\_\_\_ 9. State: \_\_\_\_\_ 10. ZIP Code: \_\_\_\_\_

11. Telephone: \_\_\_\_\_ 12. Ext.: \_\_\_\_\_ 13. 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:)





**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Release Tracking Number

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

-

**A. DISPOSAL SITE LOCATION:**

1. Disposal Site Name:

2. Street Address:

3. City/Town:

4. ZIP Code:

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)

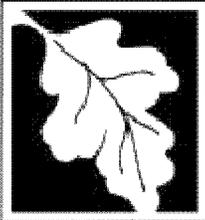
- 1. Submit a certified copy of a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
- 2. Submit an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** has been filed pursuant to 310 CMR 40.1080.
- 3. Submit a certified 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)  -   -

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



**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Release Tracking Number

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

4

- 15490

**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**

b. Book and Page Number and/or Document Number: **BOOK 9289, PAGE 7**

c. Date of recording and/or registration: **3/9/2009**

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: **16 BLACKMER STREET**

4. City/Town: **NEW BEDFORD**

5. ZIP Code: **027190000**

**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: **COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GAME - DIV. OF MARINE FIS**

3. Contact First Name: **KEVIN**

4. Last Name: **CREIGHTON**

5. Street: **251 CAUSEWAY STREET, SUITE 400**

6. Title: **CHIEF FINANCIAL OFFICER**

7. City/Town: **BOSTON**

8. State: **MA**

9. ZIP Code: **021140000**

10. Telephone: **6176261537**

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)**

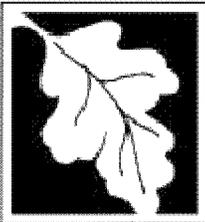
1. RP or PRP  a. Owner  b. Operator  c. Generator  d. Transporter

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: \_\_\_\_\_



ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Release Tracking Number

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

4

- 15490

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 Opinion 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, \_\_\_\_\_, attest under the pains and penalties of perjury that I am the owner of said property(ies), subject to the AUL

2. \_\_\_\_\_ 3. Date: \_\_\_\_\_  
Signature mm/dd/yyyy

4. Name of Organization: \_\_\_\_\_

5. Contact First Name: \_\_\_\_\_ 6. Last Name: \_\_\_\_\_

7. Street: \_\_\_\_\_ 8. Title: \_\_\_\_\_

9. City/Town: \_\_\_\_\_ 10. State: \_\_\_\_\_ 11. ZIP Code: \_\_\_\_\_

12. Telephone: \_\_\_\_\_ 13. Ext.: \_\_\_\_\_ 14. FAX: \_\_\_\_\_



**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Release Tracking Number

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

4 - 15490

**H. CERTIFICATION OF PERSON MAKING SUBMITTAL:**

1. I, Kevin Creighton, 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

Commonwealth of Mass. Dept. of Fish & Game

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: [Signature]  
Signature

4. Title: CHIEF FINANCIAL OFFICER

5. For: COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GA  
(Name of person or entity recorded in Section D)

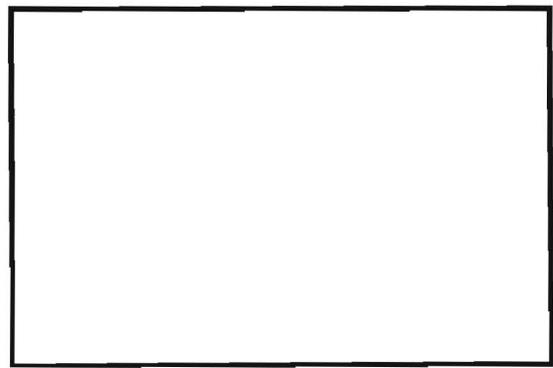
6. Date: 3/17/2009  
mm/dd/yyyy

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:)







**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 - 15490

**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 CMR 4.03(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 #: 1699

2. First Name: KEVIN J

3. Last Name: BEAULIEU

4. Telephone: (508) 863-3102

5. Ext.:

6. FAX:

7. Signature: 

8. Date: 03/05/2009

mm/dd/yyyy

9. LSP Stamp:





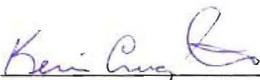
**eDEP - AUTHORIZATION AGREEMENT**

**DATE:** March 17, 2009

**PRP:** *Commonwealth of Massachusetts Department of Fish & Game*  
RTN 4-15490  
16 Blackmer Street  
New Bedford, Massachusetts

As the Potential Responsible Party (PRP) for the above referenced state release site, Kevin J. Beaulieu of Wave 2 Environmental, Inc. (LSP #1699), has been employed through Common Sense Environmental, Inc., to act on my behalf as the LSP-of-Record regarding environmental services relating to the requirements of Massachusetts General Laws (MGL) 21E and the Massachusetts Contingency Plan (310 CMR 40.000). I am aware that from time to time, the submittal of certain reports and associated transmittal forms (Forms) are required to ensure continued administrative regulatory compliance with said regulations. It is further understood that these Forms require a signed written declaration by both the PRP *and* the LSP-of-Record to satisfy the submittal certification requirements of 310 CMR 40.0009. It is acknowledged by my signature below and on the attached Forms that the LSP forwarded said Forms to me for review prior to submission to the Massachusetts Department of Environmental Protection (DEP). I further acknowledge that review of the content of such Forms is required by the DEP and, in the event that clarification regarding the interpretation of said content was necessary, contact was made with the LSP for further clarification prior to signing said forms. By signing below, I authorize the LSP-of-Record to sign my name electronically on my behalf during electronic submittal of the attached signed transmittal Forms to DEP. I acknowledge that this authorization to allow the LSP to sign on my behalf does not impute any responsibility to the LSP pursuant to MGL 21E Section 5. All references to I or we herein are to the PRP.

Accepted:

  
\_\_\_\_\_  
Kevin Creighton, Chief Fiscal Officer  
Commonwealth of Massachusetts  
Department of Fish & Game

3/17/2009  
Date

- Attachments:  
-BWSC 104 Response Action Outcome Transmittal Form  
-BWSC 108 Comprehensive Response Action Transmittal Form  
-BWSC 113 Activity & Use Limitation Transmittal Form



***Phase II Comprehensive Site Assessment  
Phase III Remedial Action Plan  
&  
Class A3 Response Action Outcome***

***Release Tracking Number: 4-15490***

Map 25A, Lots 49 and 53  
(Formerly known as Lot 3)  
16 Blackmer Street  
New Bedford, Massachusetts 02740

***Prepared for:***

Commonwealth of Massachusetts  
Department of Fish and Game  
Division of Marine Fisheries  
251 Causeway Street  
Suite 400  
Boston, Massachusetts 02114

***Prepared by:***

Common Sense Environmental, Inc.  
50 Theresa Street  
South Dartmouth, Massachusetts 02748  
508-991-3491

March 27, 2009

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## **1.0 INTRODUCTION**

The Massachusetts Contingency Plan 310 CMR 40.0000 (MCP) provides rules for the reporting, assessment and cleanup of oil/hazardous material release(s) into the environment. The Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries currently owns the Property addressed as 16 Blackmer Street located in the City of New Bedford, Massachusetts. The Property is depicted on Assessors Map 25A as Lots 49 and 53 and was previously known as Lot 3 of the former New Bedford Standard Times Field Site. During Property redevelopment activities in 1999 and 2000, concentrations of polynuclear aromatic hydrocarbons (PAHs) and lead in Property soil, and polychlorinated biphenyls (PCBs) in Property groundwater, were reportedly detected above applicable RCS-2 and RCGW-2 reportable concentrations (RCs). The Massachusetts Department of Environmental Protection (DEP) was notified of the release condition on May 19, 2000, and assigned Release Tracking Number (RTN) 4-15490 to the release Site.

After purchase of the subject Property from the City of New Bedford, the Division of Marine Fisheries contracted Common Sense Environmental, Inc. (Common Sense) to evaluate the extent of contamination related to a historic release of oil and hazardous materials (OHM) and to return the site to compliance with current MCP requirements. Common Sense collected additional soil and groundwater data to supplement the pre-existing Site data and a Phase I Completion Statement/Tier II Classification was filed on May 23, 2006 on behalf of the new property owner. The owner purchased the non-compliant release Site for the purpose of immediately redeveloping the lot for use as a parking lot and for the eventual construction of a commercial use structure. In order to facilitate this development plan, a Partial B1 Response Action Outcome was filed for the north area of the property on July 31, 2006 (CSE, 2006). A Release Abatement Measure (RAM) Plan was also developed and filed for the southern portion of the Property on April 14, 2008, to allow for the placement of a paved parking lot over an area of lead impacted urban fill materials (CSE, 2008).

This report has been completed by Common Sense Environmental, Inc. under the direction of Mr. Kevin J. Beaulieu, who is certified as a Licensed Site Professional (LSP#1699) by the Massachusetts Board of Registration of Hazardous Waste Property Cleanup Professionals as mandated by M.G.L. Chapter 21E. This report and supporting data document the collection, development and evaluation of information sufficient to support conclusions and opinions regarding the Site (as currently defined) with respect to:

- the known source, nature, extent, and potential impacts of release;
- the potential risk of harm posed by the disposal Site to health, safety, public welfare and the environment; and
- the determination of the need for potential further remedial actions at the disposal Site.

A separate Method 3 Risk Assessment prepared by O'Reilly, Talbot & Okun Associates (OTO), dated October 30, 2008 has been discussed and provided with this report to satisfy the requirements of a Phase II CSA per the MCP. The following sections of the present the results of our background research, regulatory file review, subsurface investigation, conclusions and recommendations.



See Figure 1  
(for reference only)

## 2.0 GENERAL INFORMATION

<i>DEP Release Tracking Number:</i>	4-15490
<i>Location:</i>	Vacant lots - Map 25A, Lots 49 and 53 (formerly known as Lot 3) 16 Blackmer Street New Bedford, Massachusetts 02719
<i>Latitude:</i>	41° 37' 16" North (4609282.675 UTM)
<i>Longitude:</i>	70° 54' 57" West (340386.32 UTM)
<i>Persons conducting response actions:</i>	Commonwealth of Massachusetts Department of Fish and Game Division of Marine Fisheries 251 Causeway Street, Suite 400 Boston, Massachusetts 02114 Kevin Creighton, Chief Fiscal Officer 617-626-1537
<i>Licensed Site Professional:</i>	Kevin J. Beaulieu, LSP #1699 On behalf of Common Sense Environmental, Inc. 50 Theresa Street South Dartmouth, MA 02748 (508) 991-3491

*Figure 1 - Property Locus* provides the location of the Property along the western shore of the New Bedford Harbor in the City of New Bedford, Bristol County, Massachusetts. The undeveloped Property is situated in a densely populated area, which is currently being developed

for industrial purposes. It is depicted on Assessors Map 25A as Lots 49 and 53 and consists of approximately 3.41 acres (148,752 square feet) of land. Lot 49 consists of 95,197 square feet and Lot 53 consists of 53,555 square feet. The Property was previously known as Lot 3 and has approximately 426 feet of frontage at Blackmer Street.

## **2.1 Surrounding Environment**

### Zoning and Population

The Property is located on land zoned as “Industrial B” and is within an area designated by the City of New Bedford as the “Working Waterfront Overlay District”. A variety of industrial uses are permitted in industrial B zones and the “Working Waterfront Overlay District” is intended for use by marine-related industrial activities (e.g., fish processing or related activities). Based on 2000 census data, the City of New Bedford has a population density of nearly 12,163 persons per square mile.

### Utilities

Electricity is provided to the Property by overhead cables along South First Street and by underground cables along Blackmer Street. The lots surrounding the Property are serviced with natural gas, and municipal sewer, storm water, and drinking water via subsurface utilities along Blackmer Street. The source of drinking water for the City of New Bedford is Little Quittacas Pond located in Rochester, Massachusetts, located approximately 11.5 miles north of the Property. According to an interview with the New Bedford Board of Health, there are no known private drinking water wells within 500 feet of the Property.

### Adjacent Land Use and Natural Resource Areas

The adjacent lots are utilized for commercial/industrial use. Adjacent land use on the north abutting lot includes the New Bedford Radio Incorporated antenna tower. Blackmer Street, beyond which is Fresh Express Seafood packaging plant, abuts the Property to the west. The south abutting lot consists of a 30-foot wide unimproved drainage easement owned by the City of New Bedford, beyond which is Fleet Fisheries fish packaging plant. New Bedford Harbor/New Bedford Harbor lies adjacent to the east Property boundary. The New Bedford Harbor flows south to the New Bedford Inner Harbor. Reports by others’ indicate that the Property and abutting lots are all portions of the former New Bedford Standard Times Site which was reportedly razed in the 1930’s.



See Figure 2  
(for reference only)

Prior to construction and grading activities at the surrounding lots, storm water drainage occurred primarily via infiltration in unpaved areas, with some possible sheet flow along the eastern Property area to the New Bedford Harbor. Storm drains were observed on Blackmer Street and Silva Street. A City storm water outfall extends along the southern boundary of the Property and discharges to the New Bedford Inner Harbor. No lagoons, pools, or surface waters were observed on the Property. Groundwater flow direction is inferred to be to the east-southeast.

Lots 49 and 53 are located within the 100 and 500-year flood zones. Base flood elevations have been established for the area.

### Area Receptors

According to the MassGIS map (**Figure 3**) the Property does not lie within a Zone II, interim Wellhead Protection Area, Sole Source Aquifer, Potential Drinking Water Source Area, Zone A of a Class A surface water body or Area of Critical Environmental Concern. According to the New Bedford Board of Health, there are no private drinking water wells known to exist within 500-feet of the subject Property. The Property is located within the FEMA 100-year floodplain, and portions of the Property are located within the 500-year floodplain.



See Figure 3  
(for reference only)

The nearest Massachusetts protected open space is Ben Rose field located approximately 500 feet to the southwest of the Property. As defined under 310 CMR 40.0006, there are no schools, daycare centers, hospitals, or nursing homes located within 500 feet of the Property per the May 6, 2000 FirstSerach Report presented in the Phase I report (CSE, 2006).

### Nearby Release Sites

Sanborn fire insurance maps of the Property area included in the previously submitted CSE Phase I report indicate several former structures and/or features of interest. A former gasholder and equipment building, possibly associated with a coal gasification plant are shown north of the northern Property boundary. A former coal storage bin is also indicated off-Property on the north abutting lot, approximately 220 feet to the west. A former transformer is also shown off-Property in the northeast portion of Lot 7, approximately 250 feet to the southwest. A former 150,000 gallon oil storage tank was reportedly located approximately 700 feet to the southwest of the Property. Historic maps on record with the City of New Bedford indicate that a 24-inch storm drain and 12-inch abandoned sewer line are located within Blackmer Street and the southern abutting City owned drainage easement. The storm drain extends and discharges to the New Bedford Harbor/New Bedford Harbor. The abandoned sewer line terminates approximately 40 feet from the waters edge. No indication of a pump chamber or station was revealed,

implying that the sewer main may have historically discharged to the abutting water body as well.

A review of state and local regulatory agencies was conducted to identify permits and compliance history relative to the use, generation, storage, treatment, disposal and release of OHM at and in the immediate vicinity the Property. Other information was additionally reviewed to assess if there were nearby listed disposal sites or spills with the potential to impact the subject Property, including the use of an electronic database service provided by FirstSearch Technology. A copy of the FirstSearch Report is included in the previously submitted CSE Phase I report. Information regarding nearby properties of environmental concern are summarized below.

*New Bedford Acushnet Estuary, abuts Property to east, New Bedford, MA  
National Priority List (NPL) Property*

The Acushnet Estuary site extends from the shallow northern trenches of the New Bedford Harbor estuary south through the commercial harbor of New Bedford. New Bedford is currently homeport to a large offshore fishing fleet and is a densely populated manufacturing and commercial center. From the 1940s and into the 1970s two electric capacitor manufacturing facilities discharged PCB wastes either directly into the harbor or indirectly via discharges to the City's sewerage system. Subsequently, the harbor is contaminated at least 6 miles from the upper New Bedford Harbor to Buzzards Bay. Ambient air, surface water, groundwater, soils, sediments, and the food chain are contaminated, with high concentrations of many pollutants, most notably polychlorinated biphenyls (PCBs) and heavy metals. The New Bedford Harbor/New Bedford Harbor is located along the east Property boundary and is judged as likely to represent potential environmental conditions of concern to the Property.

*Lot 4, Blackmer Street, abuts the Property to south, New Bedford, MA  
State Spills Site*

Cygnus Group completed a Class B1 Response Action Outcome (RAO) at the Lot 4 site on November 8, 2000 (Cygnus 2000). Lot 4 is situated beyond the southern abutting City drainage easement and was originally co-joined with the subject Property and a part of the assigned Release Tracking Number 4-15490. The RAO was filed to demonstrate that site contaminants, including PAHs and lead in soil, were related to urban fill containing coal ash and were accordingly consistent with background. The RAO indicates that remedial measures were not deemed necessary nor conducted and Activity and Use Limitations are not required to maintain a level of no significant risk. It is noted that this release site was tracked by the DEP under the same RTN as the subject Property and it is unclear how this portion of the overall release site was subdivided and closed without the submittal of a partial-RAO. Regardless of the process employed, the subject Property was broken away from the overall release site and the RTN was

left open so as to affect a separate response for the abutting drainage easement and Lot 3. Relevant report excerpts are presented in Appendix D of the CSE Phase I report.

*Lisbon Auto Repair, approximately 750 feet west-southwest of the Property*

Previous subsurface investigation activities conducted by M&E, including soil sampling and installation and sampling of monitoring well GW-03 on Standard Times Field Lot 9, were designed to evaluate the potential for impact from Lisbon Auto Repair. M&E concluded that no impact on Standard Times Field Site from Lisbon Auto Repair was found. Based on review of the topographic map, visual observation of the Lisbon Auto Repair site in relation to the Property and the M&E data previously discussed, the Lisbon Auto Repair is judged as unlikely to represent potential environmental conditions of concern to the subject Property.

*The Mutual Service Station at 56 Potomska Street (RTN 4-13706) and Southeast Transit Authority (STA) facility at 65 Potomska Street (RTN 4-13706)*

Both of the sites had former petroleum UST releases and are located hydraulically upgradient to and an estimated 900 to 1,200 feet west-northwest of the Property. After reviewing the MADEP file, and following installation and sampling of monitoring well GW-04 on Lot 1B, M&E concluded that there was no evidence that the Standard Times Field Site had been impacted by off-Property releases from Mutual Service Station or STA. Further, a Class A2 RAO was completed at the Mutual Service Station in 1996. A Class A-2 RAO indicates that a permanent solution has been achieved and no significant risk exists. Common Sense judges the sites as unlikely to represent potential environmental conditions of concern to the subject Property based on the M&E data and the A2 RAO.

*C.P. Brodeur at 80 Wright Street, approximately 0.17 miles northwest of the Property*

C.P. Brodeur is a very small quantity generator of hazardous waste. Based upon its location being similar to that of Mutual Service Station, the M&E site assessment activities described above for the Mutual Service Station are believed to have been adequate to assess potential impacts from this location. Further, C.P. Brodeur does not abut the Property and is judged as unlikely to represent potential environmental conditions of concern to the Property.

## **2.2 Property Description**

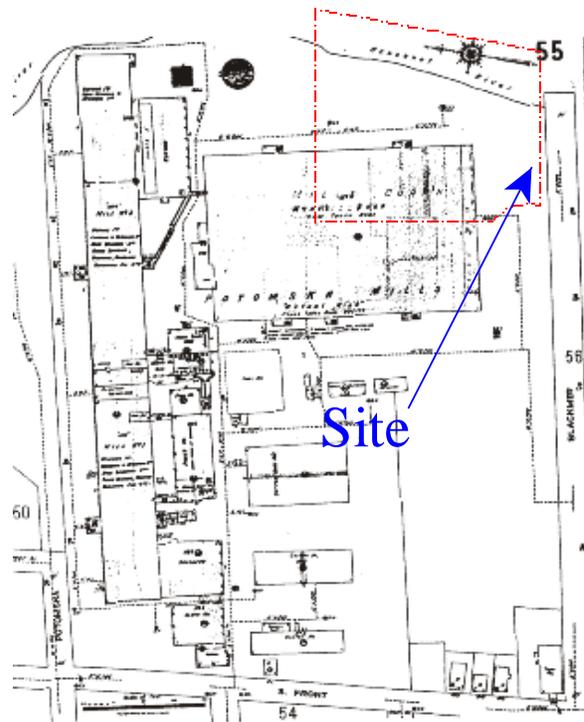
The 3.41 acre Property is located at the east termination of Blackmer Street in a heavily developed commercial, light industrial and residential section of New Bedford, Massachusetts (see **Figures 1 & 2**). The vacant, rectangular-shaped Property is located at the east termination of Blackmer Street, along the west bank of the New Bedford Harbor waterfront. The southwest area of the generally-level Property is currently covered by asphalt pavement installed as part of the aforementioned RAM plan. The majority of the property is enclosed by a chain link fence. The remaining Property area is covered by graded soils and mature vegetation. No other

structures were observed at the property there is no present use or storage of OHM at the Property.

### 2.2.1 Owner and Operations History

The subject Property has been vacant circa 1930 to 2008, following demolition of mill buildings that occupied the Property from the 1880's to the 1930's and it previously formed the northeastern portion of the 25.5 acre Standard Times Field Site. From 1946 through 1966, the Property and surrounding lots were undeveloped open space owned by E. Anthony and Sons, Inc. who, at that time, also owned the New Bedford Standard Times newspaper. Several different owners are recorded for the Property between 1966 and 1998, when it became the property of the City of New Bedford. The City of New Bedford Redevelopment Authority acquired the Standard Times Field Site in 1998. The Commonwealth of Massachusetts, acting through its Department of Fish and Game, acquired the Property which was subdivided from the encompassing Standard Times site in July 2005. Several easements are noted in the deed.

The Property is currently vacant, and has reportedly been undeveloped space since the 1930's. According to Sanborn fire insurance maps, historical uses of the Property have included millwork from the 1880's through 1924. The mill structures were reportedly demolished between 1924 and 1935. No record of building demolition was found. In general, the textile industry boomed throughout the region during the late 1800's but essentially collapsed during the great depression. No documentation was found regarding former OHM use or storage but records indicate that the mill produced textiles and the building which encroached on the subject parcel was a weaving shed. There is no record of Property use and no indication of permanent structures on the Property from the 1930's through the present, with one exception. In 1963, the U.S. Army Corps of Engineers (USACE) used the Property as a staging area for construction of the nearby Hurricane Barrier. Copies of several referenced historic maps are presented in Figures 4 through 6.



See Figure 5  
(for reference only)

### **3.0 RELEASE RESPONSE ACTION HISTORY**

Environmental assessment activities for the all encompassing Standard Times property generally began in the mid to late 1980's and evolved over the following years with focus placed on specific areas of interest identified during previous investigations. The assessment process, findings and conclusions have been fully documented in several previously submitted reports including the Phase I report prepared by CSE in May 2006. The following MCP site assessment and response action highlights are provided for ease of reference and to present this report as a stand alone document.

#### **3.1 Phase I Assessment**

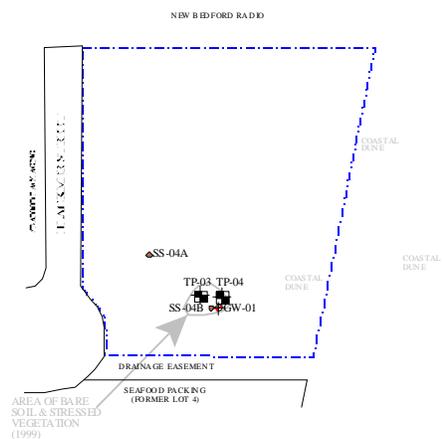
##### **3.1.1 Metcalf & Eddy, Inc**

In January 2000, Metcalf & Eddy, Inc. (M&E), in conjunction with EPA and City of New Bedford redevelopment efforts, prepared a Brownsfield Targeted Site Assessment (BTSA) Draft Report for the overall 25.5 acre Standard Times Field Site including a limited assessment of potential areas of concern located within the boundaries of the subject Property. M&E specifically observed an area of stained gravel with stressed vegetation, coal ash and capacitor debris in the southwest Property area. Mounds and ditches of excavated earth, boulders, and building demolition debris (brick, concrete, tile, roofing material, and asphalt) were observed throughout the remainder of the subject Property area. The report also referenced previous environmental assessments, including two previous test pit investigations (completed by Kurz Associates in 1986 & GZA in the early 1990's) which identified measureable concentrations of PCBs, fuel oil and Oil & Grease on the overall Standard Times Site. Specific sample locations or plans for the previous work were not provided in the reviewed report and it could not be determined if the subject Property was specifically included in the assessment. Although report excerpts from the reviewed M&E report were provided in the Phase I report, Appendix A contains information that was deemed to be relevant to the requirements of a Phase II Report.

Although the majority of the M&E assessment was completed to assess high risk areas of the overall Standard Times site not located on the subject Property, the portion of the investigation specific to the subject Property focused on the above referenced area of stressed vegetation and bare soil. Two test pits, two surface soil sampling locations and the installation of one temporary groundwater monitoring well were completed to assess for the presence of potential contaminants. Two test pits (TP-03 and TP-04) were excavated to visually inspect soil types and to search for buried debris and additional capacitors that were noted on the ground surface. In one of the test pits (TP-04), "capacitor-like" materials were reported in the text of the report but not in the provided test pit logs (Appendix A). In addition, the report narrative describes the presence of wood planks at approximately 4-5 feet below ground surface that were associated with the potential presence of former bulk heads or piers. No soil samples were collected for laboratory analysis from either test pit. Soil descriptions for one of the two surface soil samples collected from the suspect area (SS-04B) noted capacitor debris and coal ash. Urban fill was

noted in three of the four soil sample locations. The two surface soil samples were laboratory analyzed for EPH/VPH, PCBs, 23 Metals, cyanide, Pesticides, PAHs, SVOCs and VOCs. Although low levels of metals, petroleum (EPH fractions), PCB's and pesticides were detected in the analyzed samples, MCP Reportable Concentrations (RCs) were only exceeded for benzo(a)pyrene and lead. No VPH, cyanide or VOCs were measured. Sampling of surface debris (roofing tar, tiles and transient-type material) in the area of SS-04B for asbestos analysis confirmed the presence of chrysotile in one of the three sampled items (transient type material).

The following table provides a condensed summary of data generated for the subject Property during this assessment phase. The table only contains contaminants and sample locations extracted from Table 1 of this report that exceed current MCP RCS-1 reportable concentrations (April 2008). Associated laboratory reports were not available.



See Figure 8  
 (for reference only)

Analytical Summary Table

(all results reported in ppm (mg/kg))

SAMPLE IDENTIFICATION	SS-04A**		SS-04B**		MCP Reportable Concentrations	
	0-3		0-3		RCS-1	RSC-2
	SAMPLE DEPTH (FT)	0-3	SAMPLE DEPTH (FT)	0-3		
COLLECTION DATE	09/28/99	09/28/99	09/28/99	09/28/99		
Phenanthrene	11	14	10	1000		
Acenaphthylene	1.2	0.7	1	10		
Benz[a]Anthracene	8.9	10	7	40		
Benzo[b]Fluoranthene	7.7	9.1	7	40		
Benzo[a]Pyrene	8.2	11	2	4		
Indeno[1,2,3-c,d]Pyrene	7.5	7.4	7	40		
Dibenzo[a,h]Anthracene	7.5	2.5	0.7	4		
Lead	3640	379	300	300		

Notes: (1) **Bold** = exceeds RCS-1 Criteria  
 (2) **Bold** = exceeds RCS-2 Criteria

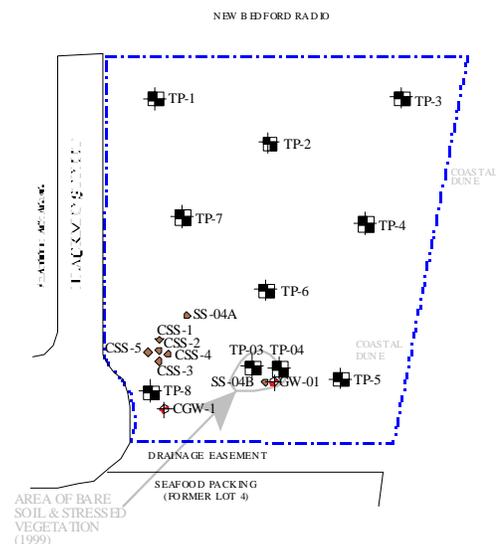
One temporary groundwater monitoring well (GW-01) placed near the SS-04 location was also installed and sampled for laboratory analysis. The single groundwater sample was chemically analyzed for VPH/EPH, Pesticides, PCBs, 23 Metals (dissolved) and Cyanide. Although low levels of petroleum (EPH/VPH fractions), PCB's and pesticides were detected in the analyzed sample, MCP Reportable Concentrations (RCs) were only exceeded for PCB's at the time of notification. However, comparison of all detected analytes to current MCP reportable concentrations identified no exceedances (as the PCB standard for RCGW-2 sites was increased from 0.3 to 5.0 ppb in April 2008). A summary of the groundwater data is provided in Table 2 of this report. It is noted that a survey elevation completed by M&E on groundwater on the overall Standard Times site confirmed that groundwater flows southeasterly toward the New Bedford Harbor/New Bedford Harbor.

### 3.1.2 Cygnus Group Inc.

Between March and May 2000, Cygnus Group performed an additional subsurface investigation to further evaluate subsurface conditions on the subject Property. Additional investigations were also performed on other lots comprising the Standard Times Field Site; however only those activities and data pertinent to the subject Property is discussed. Although report excerpts from the reviewed Cygnus report were provided in the Phase I report, Appendix A contains extracted information that was deemed to be relevant to the requirements of a Phase II Report.

The additional site assessment activities included the advancement of 5 soil probes (CSS-1 through CSS-5), one soil boring with a groundwater monitoring well (CGW-1) and eight shallow test pits (TP-1 through TP-8). The locations of these sampling points are shown on **Figure 8**. The methodology for the subsurface investigation was designed to supplement and expand the data collected in the above described in Metcalf & Eddy assessment.

The five soil probes were advanced near the former M&E sampling location SS-04A, where elevated lead levels had been previously reported. Split spoon soil samples were collected at 3-foot intervals to overall depths of 6 feet. Soil samples were screened for total volatile organic compounds (TVOCs) based on visual and olfactory observations using MADEP jar headspace soil screening method. No headspace screening results exceeded 0.4 ppm, indicating volatile organic compounds (VOCs) were not a contaminant of concern. One composite sample was collected from the 0-3 foot depth and a second composite sample was collected from the 3-6 foot depth. Each sample was submitted for laboratory analysis for total lead. One sample (CSS-2) was submitted for analysis of EPH with target PAH analyses. Cygnus also oversaw advancement of one soil boring designated as CGW-1. The boring was installed to a depth of 12 feet below ground surface and samples were collected at 5-foot intervals for headspace screening in order to aid in selecting samples for laboratory analyses. The 0-2 foot depth and the 10-12 foot depth samples were submitted for EPH with target PAHs analysis. The 0-2 foot sample was also submitted for PCB/pesticide and total lead analyses. In addition, 8 test pits were placed throughout the subject Property to provide adequate aerial coverage and analytical data for shallow soils located throughout the subject Site and neighboring lots. Samples were collected from the top 3 feet of each



See Figure 8  
(for reference only)

test pit location and laboratory analyzed for lead.

The following table provides a condensed summary of data generated for the subject Property during this assessment phase. The table only contains contaminants and sample locations extracted from Table 1 of this report that exceed current MCP reportable concentrations (April 2008). Associated laboratory reports were not available.

Analytical Summary Table

(all results reported in ppm (mg/kg))

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	CSS-2	CSS-500*	CSS-3	CSS-4	CSS-5	CSS-2	CSS-500*	CGW1/S-3	TP-6	MCP Reportable Concentrations	
	0-3	0-3	0-3	0-3	0-3	3-6	3-6	0-2	0-3	RCS-1	RSC-2
PAHs											
2-Methylnaphthalene	5	ND				0.86	ND	ND		0.7	80
Acenaphthene	ND	0.9				2	0.85	2.1		2	3000
Phenanthrene	5.4	7.9				36	27	23		10	1000
Benzo[a]Anthracene	3.5	4.5				17	16	9.8		7	40
Benzo[b]Fluoranthene	3.9	5.1				18	14	9.7		7	40
Benzo[a]Pyrene	3.2	4.1				13	11	8.4		2	4
Indeno[1,2,3-c,d]Pyrene	2.6	4				10	9.2	6.5		7	40
Dibenzo[a,h]Anthracene	2.6	4				10	9.2	6.5		0.7	4
Lead	400	620	2500	530	310	210	160	490	930	300	300

Notes: (1) **Bold** = exceeds RCS-1 Criteria  
 (2) **Bold** = exceeds RCS-2 Criteria

General trends identified in the soil sampling results are as follows: EPH concentrations were detected at one to two orders of magnitude below RCs in the southwest portion of the subject Property. Concentrations of several individual PAHs were detected above RCs (chrysene, benzo(a)Pyrene and dibenzo(a,h)anthracene) in southwest area of property. The highest concentrations of the above noted PAHs were detected in soils collected at 3-6 feet bgs at CSS-2.

Property surface soil (i.e., 0'-3') typically contained 100-500 mg/kg of lead, with an occasional anomalously high level of 2,500 mg/kg (CSS-3) to 3,640 mg/kg (M&E sample SS-04). Three out of the 15 surface soil samples (i.e., 0-3 foot depth) exceeded the then applicable RCS-2 lead concentration of 600 mg/kg. Underlying shallow subsurface soil (i.e., 3'-6' depth) contained approximately 100-200 mg/kg of lead.

On March 7, 2000, Cygnus oversaw advancement of one soil boring designated as CGW-1 in the southwest corner of the subject Property. The boring was completed as a 2-inch groundwater monitoring well and sampled for EPH with target PAHs, PCBs, and pesticides. The groundwater sampling results indicated no EPH, PAHs, PCBs or pesticides above the laboratory method detection limits. No lead analysis was performed on the collected groundwater sample.

### 3.1.3 Common Sense Environmental, Inc.

In May 2006, Common Sense completed a Phase I Completion Statement/Tier II Classification for RTN 4-15490 and submitted to DEP on behalf of the Commonwealth of Massachusetts

Department of Fish and Game. The response actions completed at the subject Property consisted primarily of review of historical soil and groundwater sampling data. The purpose of the report was to evaluate the nature and extent of previously identified lead, PAH, and PCB contamination on the Property, and to use available data to complete a Numerical Ranking Scoresheet (NRS) in support of the Tier Classification of the release Site and in the development of a Conceptual Phase II Scope of Work. Based on the findings of the Phase I report, Common Sense outlined future assessment only work which would either support the ultimate closure of the Property or provide the necessary information to satisfy the requirements of a Phase II Comprehensive Site Assessment.

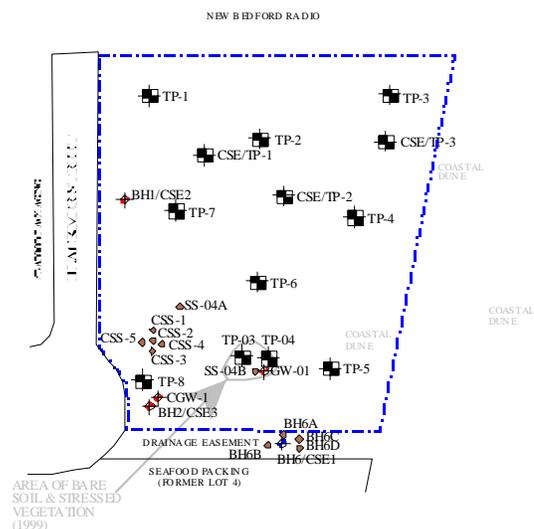
### 3.2 Phase II Assessment

On May 25, 2006, Common Sense supervised an assessment on the subject Site to verify and ascertain the extent of historically detected contaminants. The assessment included the installation of three boreholes (BH-1, BH-2 and BH-6), which were converted to groundwater monitoring wells (CSE-1, CSE-2 and CSE-3) and the advancement of 6 test pits (CSE TP-1, CSE TP-2, CSE TP-3, BH-6A, BH-6B, BH-6C and BH-6D) in targeted areas of the subject Property. Select soil samples were laboratory analyzed for total lead, EPH/PAHs, asbestos containing material (ACM), PCBs and for the presence of coal ash. Further, collected groundwater samples were laboratory analyzed for dissolved lead, EPH/PAHs and PCBs. All associated logs are presented as Appendix B of this report.

#### Soil Assessment

Soil samples were collected at 2.5-foot intervals in the boreholes (BH1, BH-2 and BH-6) and at 0-3 foot and 3-6 foot intervals in the test pits (CSE TP-1 through CSE TP-3). Collected soil samples were field screened for total volatile compounds using a Thermo 580B organic vapor meter (OVM) and calibrated to a benzene standard in accordance with the DEP jar headspace protocol.

The 2006 soil sampling plan is summarized in the following table:



See Figure 8  
(for reference only)

Sample Identification Number	Sample Depth (ft)	Total Lead mg/kg	EPH mg/kg	Coal Ash mg/kg	Asbestos mg/kg	PCBs mg/kg
BH1	0-2.5	X	X			X
BH1	2.5-5	X	X			X
Duplicate 1 (BH1 2.5-5)	2.5-5	X				
BH1	5-7.5	X				
BH2	0-2.5	X				
BH2	2.5-4	X	X		X	X
Duplicate 2 (BH2 2.5-4)	2.5-5	X				
BH2	4-6.5	X	X	X		
BH6	0-2.5	X	X		X	
BH6	2.5-5	X	X	X		X
BH6	5-7.5	X				
CSE/TP-1	0-3	X	X	X	X	X
CSE/TP-1	3-6	X	X			
CSE/TP-2	0-3	X	X			
CSE/TP-2	3-6	X	X		X	X
CSE/TP-3	0-3	X	X		X	X
CSE/TP-3	3-6	X	X			
BH-6A	2.5-6	X				X
BH-6B	2.5-6	X				
BH-6C	2.5-6	X				
BH-6D	2.5-6	X				

Copies of the boring logs for the CSE assessment are presented in Appendix B. The following table provides a condensed summary of data generated for the subject Property during the Phase II assessment. The table only contains contaminants and sample locations extracted from Table 1 of this report that exceed current MCP reportable concentrations (April 2008). Associated laboratory reports are provided in Appendix C of this report.

### Analytical Summary Table

(all results reported in ppm (mg/kg))

SAMPLE IDENTIFICATION	BH1	BH2	BH2	BH6	BH6	BH6	CSE TP-2	CSE TP-3	BH6A	BH6C	BH6D	MCP Reportable Concentrations	
	0-2.5	2.5-4	4-6.5	0-2.5	2.5-5	5-7.5	0-3	0-3	2.5-6	2.5-6	2.5-6	RCS-1	RSC-2
COLLECTION DATE	5/25/06	5/25/06	5/25/06	5/25/06	5/25/06	5/25/06	5/25/06	5/25/06	06/12/06	06/12/06	06/12/06		
<b>PAHs</b>													
Acenaphthene	0.602	0.405	0.689	<b>2.11</b>	0.222		<0.152	0.301				2	3000
Phenanthrene	<b>25.8</b>	5.77	8.26	<b>38.3</b>	<b>14</b>		<b>36.4</b>	9.35				10	1000
Acenaphthylene	<b>1.26</b>	0.213	0.276	<b>1.43</b>	0.538		<b>1.39</b>	0.619				1	10
Benz[a]Anthracene	<b>12.1</b>	3.47	4.38	<b>18.2</b>	6.05		<b>29.4</b>	<b>9.85</b>				7	40
Dibenzo[a,h]Anthracene	<0.115	<0.132	<0.118	< <b>1.14</b>	<0.123		<0.152	<0.120				0.7	4
<b>COAL ASH</b>			pos		neg							ns	ns
Lead	111	<b>339</b>	<b>5780</b>	<b>1870</b>	<b>106000</b>	<b>8970</b>	77.9	256	<b>550</b>	<b>1380</b>	<b>611</b>	300	300

Notes: (1) **Bold** = exceeds RCS-1 Criteria  
 (2) **Bold** = exceeds RCS-2 Criteria

### Groundwater Assessment

On May 25, 2006, Common Sense installed three (3) groundwater monitoring wells identified as CSE-1, CSE-2 and CSE-3 at the Property. The corresponding well borings (BH1, BH2 and BH6) were advanced to depths of 9 and 10 feet below ground surface using hollow stem auger techniques and completed as 10 foot deep groundwater monitoring wells. The wells were subsequently developed by removing approximately 5 times the well bore volume, and allowed

to equilibrate for three days prior to sampling for laboratory analysis. Historic wells GW-1 and CGW-1 had been destroyed and could not be located.

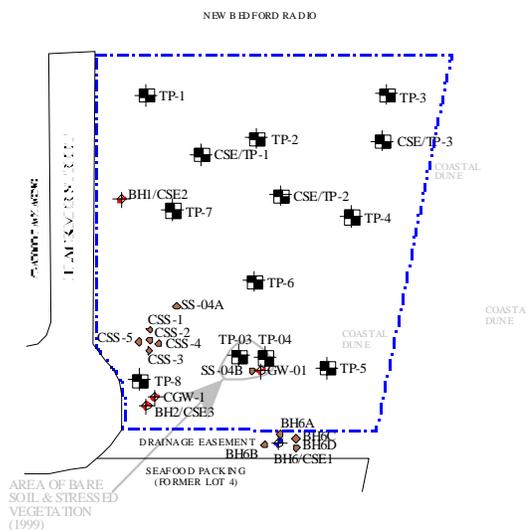
On May 30, 2006 the wells were purged and sampled for EPH with target PAHs, PCBs, and dissolved lead using “Low Flow” procedures. All groundwater samples were submitted to GeoLabs Analytical Laboratory for EPH, PAH, PCB and Lead analysis via applicable DEP protocols. No measurable thickness of LNAPL was encountered at the disposal Site during this study.

Water table elevation data collected during the sampling of all the wells confirmed that groundwater occurs at depths between approximately 4.84 to 7.18 feet below grade and flows in a southeasterly direction across the disposal Site. Dissolved oxygen levels were measured in the field at concentrations between 1.02 milligrams per liter (mg/L) and 1.87 mg/L. The Site Plan depicts groundwater elevation contours based upon the May 30, 2006 monitoring and elevation surveying event. Groundwater elevation data collected during this monitoring period are presented in Appendix D of this report.

Laboratory analysis of collected groundwater samples summarized in Table 2 of this report indicate non-reportable levels of every analyzed contaminant with the exception of PCB's. Due to this PCB detection the CSE-2 groundwater sample, the well was re-sampled on July 27, 2006 to assess for potential interference caused by suspended particulates suspected to be present in the original sample. Two samples were extracted from the well for reanalysis of dissolved PCB's. One of the two samples was decanted to allow for settlement of suspended solids and the second was laboratory filtered. Results of the re-analysis summarized in Table 2 of this report measured non-detectable levels of PCBs in both analyzed groundwater samples. Laboratory reports for groundwater analyses are provided as Appendix E.

### 3.3 Partial Response Action Outcome

As indicated above, a Phase II Assessment consisting of the review of historical soil and groundwater sampling data and the completion of a supplemental subsurface investigation to ascertain the limits and extent of the identified contaminants was completed for the subject release. Subsequent evaluations of the combined data base revealed that the northern portion of



See Figure 8  
(for reference only)

the release site (totaling approximately 2.41 acres) exhibited comparatively lower contaminant concentrations with respect to the southern portion. Due to the fact that the current Property owner purchased the Property to construct a paved parking lot and enclose the Property with fencing as part of immediate redevelopment activities, it was concluded that the northern portion of the release Site was eligible for a “partial” RAO to expedite the process. Measured concentrations in soils located on the northern portion of the release site found that only the PAH Chrysene exceeded applicable RCS-2 standards (at the time of closure). Low level petroleum and lead impact was realized in several sampling locations, albeit below applicable reportable concentrations. A Method 2 Risk Assessment completed for the northern portion of the release site subject to the partial RAO demonstrated compliance with applicable standards and supported the finding of “no significant risk” for the foreseeable future. A subsequent DEP Audit of the filed report concluded that although some technical deficiencies associated with plan and figure inaccuracies were identified and addressed, no further response actions were deemed necessary. All plans and figures provided in this report were re-drawn as a result of the audit and are deemed to be the most current and accurate with respect to the entire site assessment history. Accordingly, the attached plans supersede any and all previously submitted versions.

### **3.4 Release Abatement Measure Plan**

A Release Abatement Measure (RAM) Plan was prepared to facilitate the immediate construction of the paved lot over the southern area of the subject Property as a response action. The placement of an asphalt lot was recommended as a response action to facilitate the implementation of an Activity & Use Limitation (AUL) and ultimate Site closure via a Class A-3 Response Action Outcome (RAO).

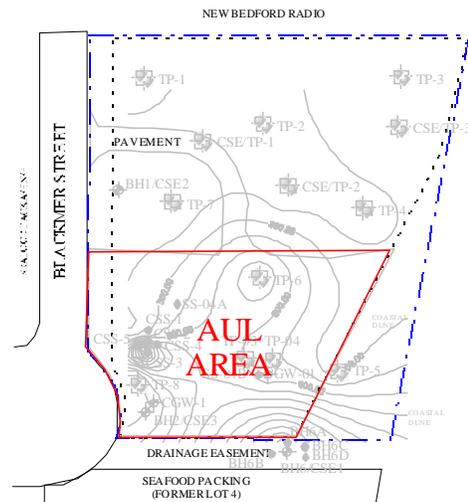
In order to satisfy the requirements of current standards of practice relative to construction within the limits of a release site, the PRP (under the direction of CSE) employed a qualified risk assessor, O'Reilly, Talbot & Okun Associates, Inc., (OTO) to complete a Method 3 Risk Assessment for the southern portion of the subject Property. Proposed development plans including the placement of an asphalt parking lot and construction of a commercial structure were communicated to OTO and a draft Method 3 Risk Characterization report (August 2006) was completed considering both current and the proposed future use exposure scenarios.

In brief, the Method 3 Risk Characterization concluded that a Condition of No Significant Risk exists for current Site uses and potential exposures to soils to construction and utility workers. However, a Condition of No Significant Risk does not exist for future unrestricted use by residents and other uses where a child's presence is likely. In consideration of both proposed and potential future use scenarios, the Method 3 concluded that the AUL should specify the placement and maintenance of pavement in the AUL area (southern 1.4 acres of Lot 49), and restrict the removal or relocation of the impacted soil without a Soil Management Plan, Health and Safety Plan, and LSP opinion.

### 3.4.1 RAM Completion Statement

The objective of the subsequently prepared and implemented RAM plan was to eliminate future exposure pathways to impacted urban fill materials situated on the southern limits of the subject Property. The RAM Plan specifically addressed construction methods and site preparation requirements associated with the placement of a paved parking lot on the subject Property. Technical Specifications for Site work, design plans, Soil Management Plan and the Health and Safety Plan were provided to site contractors prior to implementation were attached to the submitted RAM plan. The documents disclosed that the subject Site is a Tier II release site and mandates the implementation of specific methods and procedures to minimize relocation of impacted fill to areas outside the designated AUL area. The Health & Safety plan reflected the findings of the Method 3 Risk Assessment which demonstrated a condition of No Significant Risk to construction workers coming into contact with Site soils and fill material.

The designated AUL area was demarked by the placement of concrete barriers prior to construction. The entire area was grubbed and graded prior to the placement of subsurface structures and paved surfaces. All soils excavated or encountered during grubbing within this area during the placement of subsurface utilities and structures was placed within the finished excavation or otherwise distributed within the designated AUL area. No soils from the southern designated AUL area were relocated to the northern closed portion of the subject Property (the subject of the July 2006 partial RAO). Once all underground structures were emplaced, the coarse grade binder layer of the pavement was then installed in accordance with the Standard Specification for Highways and Bridges of the Department of Public Works Massachusetts (1995). The entire designated AUL area was covered by paved surfaces as a result of RAM activities completed in the fall of 2008. The AUL survey plan was completed after completion of the asphalt lot and as such is deemed to be representative of 'as-built' conditions. No landscaped areas, gardens, or plantings are proposed for presently paved AUL area. No remediation waste was generated as a result of this RAM activity.



See Figure 10  
(for reference only)

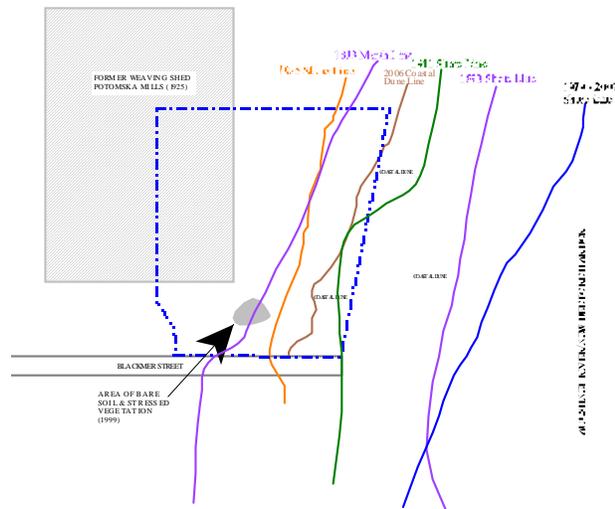
## 4.0 GEOLOGIC CHARACTERISTICS

Area geology was created by the repeated advances of thick glacial ice sheets that covered this section of New England between 14,000 and 50,000 years ago. During this time, glacial deposition, deformation and erosion during both glacial and interglacial stages formed the topography of the area. As the glacial ice retreated, area valleys were filled with a veneer of glacial till and outwash deposits of varying thickness.

## Geology

The subject Property consists of “made land” as low lands bordering the New Bedford Harbor were apparently filled as indicated by a comparison of current shorelines to those depicted in an 1893 USGS Topographic Map. Based on the time and location of filling within this highly urbanized area, the type of fill material typically contains debris and particles commonly associated with DEP defined urban fill. Topographically, the parcel has generally remained level with a slight southeasterly down gradient trend towards the New Bedford Harbor/New Bedford Harbor.

**Figure 7** of this report provides an approximation of fill areas of the subject property as derived from available historic USGS Maps. Site boundaries and relative location were traced onto current aerial photographs with respect to Cove and County Streets which were landmarks that existed throughout the chronological history of available historic maps. Using Cove and County Streets as reference points, the site boundaries were superimposed on the historic maps and relative shorelines were traced with respect to current Property boundaries (Figures 4 – 6). As shown on the resulting shoreline map, the entire eastern half of the Property appears to have been either tidal wetlands or part of the New Bedford Harbor prior to historic filling activities. Based on these maps it can be surmised that the thickness of the fill material is deepest along its eastern limits and was most likely subject to full dump loads; whereas the remainder of the property was most likely brought up to grade with gradable soil and gravelly materials (asphalt, cinders & ash). In addition, it is noted that the eastern abutting dune area (not owned by the PRP) presently situated between the subject Property and the current shoreline is largely made up of beach sand. The sand may have been deposited as a result of the effect of the New Bedford Harbor hurricane wall on local tidally influenced water and may or may not contain significant amounts of “man-made” fill. Although the soils in these sand dunes appear more pristine than the fill materials noted in the subject property, it is reminded that these sands/sediments likely came from the bottom of New Bedford Harbor, a listed NPL site for PCB impact.



See Figure 7  
(for reference only)

The *Soil Survey of Bristol County* accordingly identifies Property area soil as “Urban Land” where urban works and structures prevent classification and requires on-site investigation.

According to the M&E BTSA Draft Report, the soil sequence across much of the Standard Times Field Site varies. Some test pit logs suggest a fill unit 2-8 feet deep in some locations, containing sand and gravel with brick and shingle fragments, cinders, asphalt and concrete rubble. These fill materials may primarily have sourced from various buildings which were demolished during the 1930’s. The fill is typically underlain by a peat unit 1 to 2 feet thick, which in turn was underlain by natural deposits of sand and gravel and/or bedrock. Depths to bedrock ranged from approximately 6 to 12 feet across the Property area. It is noted that the above described Lot 4 located to the south of the southern abutting drainage easement was reported to consist of fill material containing coal ash (Appendix A).

Boring logs generated by CSE in 2006 also indicate varying soil sequences. Fill containing sand, rounded cobbles, black coal ash, cinders, porcelain and brick fragments was consistently observed varying from 0 to 9 feet bgs at BH2, BH6 and all three CSE test pits. Refusal was encountered at 6 feet bgs at CSE TP-2. Bedrock was not encountered at any other CSE borings or test pits. Soils observed at BH1 consisted of sandy brown soil and cobbles (Appendix B).

According to Zen (1983), bedrock at the Property is a Precambrian biotite gneiss of the Blackstone Group.

#### Hydrogeology

The nearest surface water body is the abutting New Bedford Harbor, which flows south to the New Bedford Inner Harbor. The New Bedford Inner Harbor is a designated Class SB surface water body with restricted shell fishing and is impacted by Combined Sewer Overflows according to the Massachusetts Surface Water Quality Standards. A Class SB surface water body is suitable as a habitat for fish and other aquatic life, and for primary and secondary contact recreation such as swimming and boating.

Cygnus Group surveyed wells CGW-1 through CGW-4 in 2000 and tied the data into an arbitrary datum plane. The depth to groundwater ranged from 2.27 feet below ground surface (BGS) at CGW-3 to 5.1 feet bgs at CGW-1 (on Property well). Based on this data, the overall direction of the groundwater flow across the Property was inferred to be southeasterly. Water table elevation data collected by Common Sense in 2006 at CSE-1, CSE-2 and CSE-3 confirmed that groundwater is located at depths between approximately 4.84 to 7.18 feet below grade and flows in a southeasterly direction across the disposal Site. Groundwater levels and flow directions may be influenced by tidal fluctuations. The groundwater elevation survey data and flow directions are summarized in the Phase I report and depicted in Figure 9 of this report.

## **5.0 CONCEPTUAL SITE MODEL**

In consideration of all field observations and screening data generated to date and disseminated above, a preliminary Conceptual Site Model (CSM) for the release can be formed. The development of a CSM is particularly useful in the understanding of release site mechanisms and the development of future response actions when deemed necessary. The primary function of the following CSM is to provide an understandable interpretation of the collected data with respect to the full nature and extent of contamination, migration pathways and exposure potential. The CSM considers all conceptually possible exposure scenarios and supports the rationale for all sampling, assessments and response actions completed for the release site.

### **5.1 Nature & Extent**

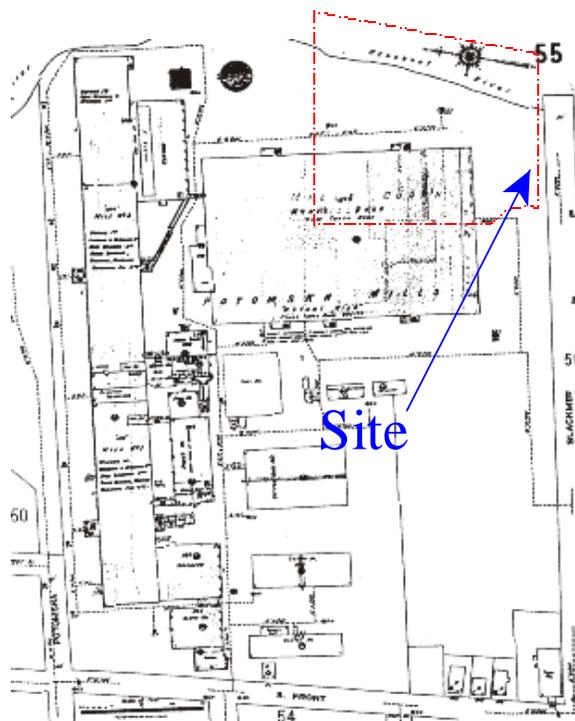
Based on the results of recent and historic use research and sampling and analysis of soil and groundwater samples collected from the Property, the primary site contaminants and reason for DEP notification are Lead and PAHs detected in Site soils. No point source for any of the reported contaminants has been identified and it has been concluded that their presence is directly attributable to the presence of historic urban fill located throughout the subject area. The fill horizon consists of soil matrices containing brick, wood, bits of coal, cinders and coal ash as confirmed by both field observations and laboratory analysis. As urban fill containing coal ash is conditionally exempt from reporting and management under the MCP, the focus of this report and Conceptual Site Model is the presence of a potential lead hotspot within the fill regime on the southwest corner of the subject Property. The following provides a brief discussion of this Site as it is presently understood.

#### **5.1.1 Release Source & Transport Mechanisms**

Based on the results of historic and recent assessment activities and historical Property use, the identified COPC's are lead and members of a group of organic coal ash related compounds known as polynuclear aromatic hydrocarbons (PAHs). The general location of the elevated lead contamination appears to coincide with a former roadway and current drainage easement extending easterly from the current Blackmer Street eastern terminus parallel to the southern Property line. Although the entire eastern half of the subject Property has been the subject of filling during the last 150 years, it is suspected that this former roadway (which extended through to the waters edge on historic maps, may have been paved or surfaced with cinder/ash or was potentially subject to occasional oil spraying during its use throughout the early 1900's. Historic maps on record with the City of New Bedford indicate that a 24-inch storm drain and 12-inch abandoned sewer line are located within Blackmer Street and the southern abutting City owned drainage easement. The storm drain currently extends and discharges to the New Bedford Harbor/New Bedford Harbor. The abandoned sewer line currently terminates approximately 40 feet from the waters edge. No indication of a pump chamber or station was revealed in the reviewed plans, implying that the sewer likely historically discharged to the abutting water body.

The former roadway has also been the location of historic fishing (lead sinkers) and roadside dumping activities throughout its long history.

Typically lead and PAHs, when mobilized become tightly bound to soil particles and do not tend to migrate to deeper soil horizons (ie they are typically found in shallow soil horizons) and are not very soluble thus posing a minimal threat to groundwater. In general, lead and the detected PAHs are elements that do not break down naturally and therefore will persist in the environment indefinitely. Accordingly, these contaminants are ubiquitous in the environment (commonly as a constituent of coal ash) and especially in historically industrialized areas. Once released into the environment, some changes in the composition may occur as a result of weathering. The relative importance and rate of weathering varies from situation to situation, however, the processes of volatilization, dissolution and degradation effect the concentrations upon release into the environment.



See Figure 5  
(for reference only)

Once lead falls onto soil, it sticks strongly to soil particles and remains in the upper layer of soil. That is why past uses of lead such as lead in gasoline, house paint, and pesticides are so important in the amount of lead found in soil. Small amounts of lead may enter rivers, lakes, and streams when soil particles are moved by rainwater. Small amounts of lead from lead pipe or solder may be released into water when the water is acidic or "soft". Lead may remain stuck to soil particles or sediment in water for many years. Movement of lead from soil particles into groundwater is unlikely unless the rain falling on the soil is acidic or "soft". Movement of lead from soil will also depend on the type of lead compound and on the physical and chemical characteristics of the soil. Sources of lead in surface water or sediment include deposits of lead-containing dust from the atmosphere, waste water from industries that handle lead (primarily iron and steel industries and lead producers), urban runoff, and mining piles. Some lead compounds are changed into other forms of lead by sunlight, air, and water. However, elemental lead cannot be broken down.

The movement of PAHs in the environment depends on properties such as how easily they dissolve in water, and how easily they evaporate into the air. PAHs in general do not easily dissolve in water. They are present in air as vapors or stuck to the surfaces of small solid

particles. They can travel long distances before they return to earth in rainfall or particle settling. Some PAHs evaporate into the atmosphere from surface waters, but most stick to solid particles and settle to the bottoms of rivers or lakes. In soils, PAHs are most likely to stick tightly to particles. Some PAHs evaporate from surface soils to air. Certain PAHs in soils also contaminate underground water. The PAH content of plants and animals living on the land or in water can be many times higher than the content of PAHs in soil or water. PAHs can break down to longer-lasting products by reacting with sunlight and other chemicals in the air, generally over a period of days to weeks. Breakdown in soil and water generally takes weeks to months and is caused primarily by the actions of microorganisms.

With specific reference to the subject Site, the location of elevated lead in soil is currently covered by paved surfaces which restricts rainwater infiltration and the resulting downward migration from impacted upper soils. Further, migration of suspended particulates via wind mixing or overland storm water transport is also limited by the presence of paved surfaces and buildings. As a result, migration of Site contaminants would feasibly be limited to groundwater leaching and transport mechanisms, typically in suspended form as solubility's are low. Based on historic analysis completed for dissolved concentrations in site groundwater, it does not appear that leaching to the groundwater table from surrounding fill materials is occurring at this time. Based on the age and persistence of the release Site, contaminant concentrations will likely not increase or decrease with time. Current concentrations will accordingly remain stable and persistent through the future. The identified COPCs are not volatile in nature and will not migrate into the indoor air of overlying structures.

### 5.1.2 Contaminant Concerns

According to the available guidance and industry standards, the chemical contaminants most commonly associated with historic urban fill include: EPH, VPH, VOC, Metals, PCBs, PAHs, Pesticide, asbestos, cyanide and coal/wood ash. Various specific parameters can be eliminated from consideration based on the results of field screening, previous results and or the environmental sensitivity of the release site area. In addition, some target analytes are quantified via different methodologies allowing some flexibility with respect to requested analysis services. The following table provides a summary of analytical services requested for soil and groundwater samples with respect to the above listed common contaminants and the specifically identified confirmed Contaminants of Concern (RC exceedances).

Sample Locus	Media	Field Data	VPH	EPH	VOC	Metals	Lead	PCB	PAH	Pesticide	Asbestos	Cyanide	Coal Ash	confirmed Contaminants of Concern
SS-04A/GW-01	Soil	x	x	x	x	x	x	x	x			x		Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water		x	x		x	x	x	x	x		x		
SS-04B	Soil	x	x	x	x	x	x	x	x	x	x	x		Lead, Benzo(a)pyrene
CSS-1	Soil	x					x							Lead
CSS-2	Soil	x		x			x		x					Lead, Benzo(a)pyrene
CSS-3	Soil	x					x							Lead
CSS-4	Soil	x					x							Lead
CSS-5	Soil	x					x							Lead
CGW-1	Soil	x		x			x	x	x	x				Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water			x				x	x					
TP-1	Soil	x					x							

Sample Locus	Media	Field Data	VPH	EPH	VOC	Metals	Lead	PCB	PAH	Pesticide	Asbestos	Cyanide	Coal Ash	confirmed Contaminants of Concern
TP-2	Soil	x					x							
TP-3	Soil	x					x							
TP-4	Soil	x					x							
TP-5	Soil	x					x							
TP-6	Soil	x					x							Lead
TP-7	Soil	x					x							
TP-8	Soil	x					x							
BH1/CSE2	Soil	x		x			x	x	x					
	Water	x		x			x	x	x					
BH2/CSE3	Soil	x		x			x	x	x				x	Lead, Coal Ash
	Water	x		x			x	x	x					
BH6/CSE1	Soil	x		x			x	x	x				x	Lead
	Water	x		x			x	x	x					
BH6A	Soil	x		x		x	x	x				x		Lead
BH6B	Soil	x					x							Lead
BH6C	Soil	x					x							
BH6D	Soil	x					x							
CSE TP-1	Soil	x		x			x	x	x					
CSE TP-2	Soil	x		x			x	x	x					
CSE TP-3	Soil	x		x			x	x	x					Coal Ash

Notes:  
 X = analysis completed, results below RC standards  
 X = analysis completed, results exceed RC standards  
 Blank = analysis not completed

Review of the data tabulated above confirms that all of the most commonly associated contaminants of potential concern (listed above) have been analyzed for during historic assessment activities. The table is chronologically organized from top to bottom and depicts where previously undetected analytes were omitted from later sampling events (ie. VOC and VPH). The table confirms that the site has primarily been impacted by lead, PAH's and Coal Ash. The contaminants of concern identified during the spectrum of analytical testing can be best and most effectively quantified via lead and PAH analysis. Analytical work completed for other historic fill related contaminants of concern did not reveal the presence of any laboratory quantified Reportable Conditions.

Lead occurs naturally in the environment. However, most of the high levels found throughout the environment come from human activities. Environmental levels of lead have increased more than 1,000-fold over the past three centuries as a result of human activity. The greatest increase occurred between the years 1950 and 2000, and reflected increasing worldwide use of leaded gasoline. Lead can enter the environment through releases from mining lead and other metals, and from factories that make or use lead, lead alloys, or lead compounds. Lead is released into the air during burning coal, oil, or waste. Before the use of leaded gasoline was banned, most of the lead released into the U.S. environment came from vehicle exhaust. In 1979, cars released 94.6 million kilograms (208.1 million pounds) of lead into the air in the United States. In 1989, when the use of lead was limited but not banned, cars released only 2.2 million kg (4.8 million pounds) to the air. Since EPA banned the use of leaded gasoline for highway transportation in 1996, the amount of lead released into the air has decreased further. Before the 1950s, lead was used in pesticides applied to fruit orchards. Once lead gets into the atmosphere, it may travel long distances if the lead particles are very small. Lead is removed from the air by rain and by particles falling to land or into surface water.

Sources of lead in dust and soil include lead that falls to the ground from the air, and weathering and chipping of lead-based paint from buildings, bridges, and other structures. Landfills may contain waste from lead ore mining, ammunition manufacturing, or other industrial activities such as battery production. Disposal of lead-containing products contribute to lead in municipal landfills. Past uses of lead such as its use in gasoline are a major contributor to lead in soil, and higher levels of lead in soil are found near roadways. Most of the lead in inner city soils comes from old houses with paint containing lead and previous automotive exhaust emitted when gasoline contained lead.

The levels of lead may build up in plants and animals from areas where air, water, or soil are contaminated with lead. If animals eat contaminated plants or animals, most of the lead that they eat will pass through their bodies.

PAHs are a group of chemicals that are also formed during the incomplete burning of coal, oil, gas, wood, garbage, or other organic substances, such as tobacco and charbroiled meat. There are more than 100 different PAHs. PAHs generally occur as complex mixtures (for example, as part of combustion products such as soot), not as single compounds. PAHs usually occur naturally, but they can be manufactured as individual compounds for research purposes; however, not as the mixtures found in combustion products. As pure chemicals, PAHs generally exist as colorless, white, or pale yellow-green solids. They can have a faint, pleasant odor. A few PAHs are used in medicines and to make dyes, plastics, and pesticides. Others are contained in asphalt used in road construction. They can also be found in substances such as crude oil, coal, coal tar pitch, creosote, and roofing tar. They are found throughout the environment in the air, water, and soil. They can occur in the air, either attached to dust particles or as solids in soil or sediment.

PAHs enter the environment mostly as releases to air from volcanoes, forest fires, residential wood burning, and exhaust from automobiles and trucks. They can also enter surface water through discharges from industrial plants and waste water treatment plants, and they can be released to soils at hazardous waste sites if they escape from storage containers.

Groundwater impact does not exist at the subject Property and off-site migration of detected contaminants in soil is therefore not expected to occur. Although it has been demonstrated that the fill materials present on the subject Property extend beyond the Property boundaries and potentially into the nearby New Bedford Harbor, it is concluded that the level of assessment completed for the subject Property by the PRP is complete with respect to assessing and managing on site risks. Regional assessments completed by others were relied upon to determine the full extent and limits of urban fill related contamination.

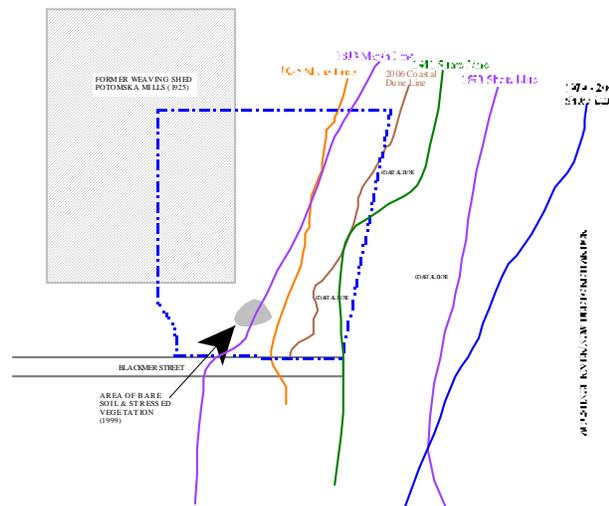
### *5.1.3 Site Delineation*

As indicated throughout this report, no distinct point source for the primary contaminants of concern was identified on the subject Property. Furthermore, it is noted that all detected

contaminants are a by-product of coal burning activities or coal ash in the environment. As such, it is concluded that the source of the detected contamination is historic urban fill material containing coal ash which was observed during boring advancement throughout the subject Property. Although it is evident based on field logs and observations that ash exists throughout the Property, laboratory analysis of the sampled fill material was generally inconsistent and non-heterogeneous within the fill horizon. This is deemed to be consistent with the inherent variable nature, origin and deposition of historic urban fill and the expected random distribution of identified contaminants. As a result, the extent and limits of the Site include all areas where urban fill was visually identified and confirmed with the use of historic maps and documents. It is suspected that based on the nature of waterfront properties in industrialized areas in the northeast, this fill material likely extends beyond the Property boundaries to the north and south along the eastern shore of New Bedford Harbor. This statement is generally confirmed through the area wide assessments completed for the former all encompassing Standard Times Site (Appendix A). As indicated above, this discussion also considers the presence of an apparent hot spot within the urban fill horizon which contains contaminant concentrations in excess of published background conditions within the southwestern portion of the subject Property.

As areas of historic urban fill are common in the northeast region, it is understood based on conversations with state regulators that such areas should be the responsibility of each individual land owner and not one single entity, unless that entity was the sole source and generator of said fill materials. Due to the fact that the current Property owner just recently took ownership of the property and had no connection to the generators of the urban fill, the data evaluated in the risk characterization was limited to that which was collected from within the legal boundaries of the subject Property.

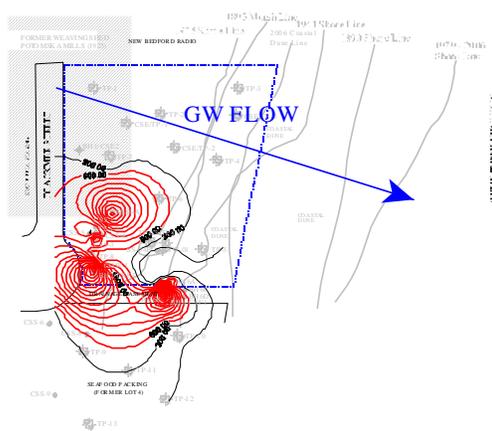
Based upon field observations and generated soil analytical data, the extent of historic fill is confirmed on the eastern half of the subject Property. In an attempt to provide a defensible definition of the extent and limits of fill, available historic USGS Map overlays were utilized to estimate the portions of the subject Property that have been filled since 1893. The attached Figure 7 composites the overlays of the eastern shoreline as depicted in the three provided USGS Maps and current Aerial Photograph. It is estimated based on this figure that approximately one half of the overall Property can be definitively documented to contain historic fill. Fill material was



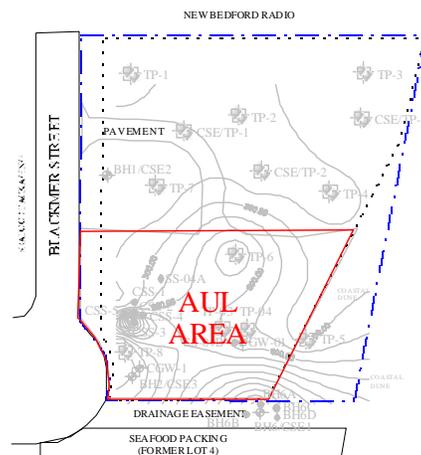
See Figure 7  
(for reference only)

confirmed during boring and test pit advancement in this area at depths extending from 0 to 7 feet below grade, thickening toward the eastern boundary. The current strip of land situated between the eastern Property line and New Bedford Harbor consists of a sandy beach dune that may have formed as the result of the construction of the nearby hurricane wall (circa- 1960). Soils in this area appear to consist primarily of well drained sand, but it is unclear if it was emplaced as a part of human construction or through natural deposition.

In addition to utilizing historic maps, recently generated data was compiled with the regional data generated by previous assessments and analyzed for contaminant trends and indicators. In review of the summary tables presented and discussed above, it is evident that the primary and most consistently detected contaminant of concern is lead. The presence of secondary PAH contaminants generally mirrored lead concentrations providing a reasonable coincidence of comingling. As such, a conceptual site model was generated by plotting worst case lead concentrations generated throughout the local area as a contour plan and overlaying it onto current lot boundaries. Although lead contamination in urban fill is not generally homogeneous or organized in the environment, this contour map demonstrates some continuity and trending which was useful in ascertaining the potential source and limit of the elevated contaminant area. As described above, Figure 9 of this report presents this CSM which generally isolates the elevated lead area to the former roadway and immediate surroundings, including the drainage easement situated along the southern limit of the subject Property. Elevated concentrations extend to the north and south of the easement onto abutting lots 3 and 4. On-site sample locations containing lead concentrations exceeding background within the 0-3 foot soil regime are all located within the limits of the recently installed paved parking area which is hereby defined as the extent of the release site situated within the Property boundaries identified as the AUL area on Figure 10. Contaminants extending onto the northern limits of Lot 4 have been assessed and closed by another consultant and PRP via a 2001 Class B-1 RAO (discussed above).



See Figure 9  
(for reference only)



See Figure 10  
(for reference only)

Groundwater collected at CGW-01 exhibited 2.6 ppb PCBs although the duplicate sample (GW-101) was non detect for PCBs in 2000. As previously discussed in this document, PCB's are not typically solvent and detections in water samples are most commonly associated with suspended particulates and unfiltered samples were initially analyzed. In further support of this statement, the detected concentrations far exceeded the water solubility value of 0.277 mg/L for PCBs, which clearly indicates that the detection was attributable to particulates present in the sample. In order to technically support this position, well CSE-2 was re-sampled on July 27, 2006 to evaluate for dissolved PCB concentrations. Due to the fact that available guidance does not clearly support filtering of groundwater samples for PCB analysis, two samples were extracted from the well for reanalysis. One of the two samples (CSE-2A) was decanted to allow for settlement of suspended solids and the second (CSE-2B) was laboratory filtered. Both samples were analyzed for PCB's and found to contain non-detectable levels. Accordingly, the concentrations of PCBs detected in groundwater during this sampling event are discounted based on the presence of suspended solids. Furthermore, the subject Site is abutted to the east by the New Bedford Harbor/New Bedford Harbor which is listed as an NPL site due to the presence of PCB impact from upstream sources. Detected concentrations of filtered PCBs in groundwater samples consistently remain well below the Method 1 GW-3 threshold of 0.0005 mg/L.

The collected groundwater data indicates no EPH, PAHs, or lead above the laboratory method detection limits in groundwater. As a result, it is concluded that groundwater is not impacted and groundwater is not a part of the conceptual site model. In addition, the potential for off-site migration to the abutting New Bedford Harbor or the indoor air of potential future buildings constructed over the site area are not likely to occur and is also not included in the CSM.

## **5.2 Exposure Potential**

In accordance with current standards of practice a Conceptual Site Model should contain a discussion relative to migration pathways and exposure potential to nearby receptors. The CSM should describe and evaluate known and potential contaminant migration pathways and exposure points, to the extent that such information is known. These evaluations typically include evidence of and the potential for oil and/or hazardous material migration by air, soil, groundwater (including migration along preferential flow pathways such as subsurface utility lines) and surface water (including sediments). The primary mechanisms for performing this evaluation are via qualitative evaluations of existing or known impacts or the quantitative evidence of measured impact to media in excess of applicable Reportable Concentrations and the corresponding accessibility of the identified contaminated media.

The MCP requires an evaluation of potential exposure pathways for four media types including soil/sediments, groundwater, surface water and indoor air. As indicated above, the criteria for establishing these exposure risks is based on both a qualitative assessment of observed impact or stress and the quantitative evaluation of the Site detected contaminants with respect to their

associated Reportable Concentrations. The following provides a brief discussion of each listed media type.

### *5.2.1 Soil*

The area of highest COC contamination in soil was identified in the southwest portion of the Property. Site soils are currently paved and access to the Property is restricted by a locked chain-link fence. As a result, it is not likely that current or future trespassers or workers would be exposed to contaminated Site soils situated beneath the current paved lot. Since there have been no detection of VOCs and no buildings currently exist on the subject Property, there is no potential for vapors from contaminated soil or groundwater to migrate into the indoor air. Potential future exposures might exist in the event that impacted soils are excavated and/or relocated from beneath the paved lot as part of future construction or re-development activities.

### *5.2.2 Groundwater*

In the assessment of groundwater exposure pathways, the confirmed presence of OHM in groundwater either by qualitative evidence of Non-Aqueous Phase Liquid (NAPL) or the detection of concentrations in excess of applicable RC's in drinking water resource areas or drinking water supply wells are the primary criteria to establishing a potential exposure scenario. Based on the results of the above summarized assessments, no groundwater impact was detected on the Site and therefore there is no foreseen groundwater migration pathway or exposure potential.

### *5.2.3 Surface Water*

In the assessment of surface water exposure pathways, the confirmed presence of OHM in nearby water bodies either by qualitative evidence (sheens, free product) or the detection of contaminants in analyzed surface water samples are the primary criteria to establishing a potential exposure scenario. The sensitivity of the impacted water way, established by the recreational/water supply use or the ecological value, determine the potential for exposure to occur.

No surface water bodies exist on-Site. The possibility of the detected site related COCs to the Harbor/River is unknown and was beyond the scope of this investigation. However, given that no groundwater impact has been documented, the possibility of contaminated groundwater migrating to the New Bedford Harbor are remote. Furthermore, it is surmised that based on the general use of the surrounding area for marine based/commercial industry, combined with the known environmental history of the New Bedford Harbor as a combined sewer outflow receptor and National Priority List site, it is clear that the harbor is subject to exposure via multiple pathways far exceeding the potential overall acute impact from the subject Site. Based on this, it

is concluded that it is unlikely that a potential for significant harm to occur with regard to the abutting habitats and biota exists as a result of the subject Site.

#### *5.2.4 Indoor Air*

In the assessment of indoor air exposure pathways, the confirmed presence of OHM in air either by qualitative evidence (odors) or the known potential for the detected contaminants to readily volatilize into air are the primary criteria to establishing a potential exposure scenario. The sensitivity of the impacted air is established by its presence with respect to local sensitive receptors (children, elderly) or the actual presence within the indoor air of an occupied structure. In addition, the finding of groundwater contaminant concentrations in excess of RCGW-2 standards may also indicate a risk to buildings located within 30 feet where the depth of water is 15 feet or less.

With respect to the subject release Site, volatile organic compounds were not identified in site soils or groundwater. Further, the primary detected COC (lead) is not volatile in nature. Accordingly, the indoor air of any future structures (none currently exist) is not likely to be impacted as a result of Site specific contaminants.

#### *5.2.5 Exposure Potential Summary*

Based on the above, the majority of the contaminated soil identified to date is located in the southwest portion of the Property. In general, given the tendency for metals to bind to soil, exposure to same necessitates the physical disturbance of soil or some potential future removal of the lead from soil via rootlet system uptake in garden vegetation and ingestion of the produce. This latter exposure pathway is self-explanatory. Presently, because no gardens currently exist on the subject Property, potential exposure scenarios would be limited to direct contact by future construction workers excavating soils located in the Site area as currently defined. No other current potential exposure pathways to nearby receptors are known to exist at this time. The following provides a tabulated summary of this discussion.

Release Source	Contaminants	Exposure Medium	Likely Exposure Pathways	Potential Receptors	Current Exposure Potential	Future Exposure Potential
Urban Fill	Heavy Metals PAHs	Soil	Incidental Ingestion Dermal Contact Inhalation Produce Uptake	Resident	N	Y
				Trespasser/Visitor	N	Y
				Commercial Workers	N	Y
				Construction Worker	Y	Y
				Ecological	N	Y
		Groundwater	Incidental Ingestion Dermal Contact Inhalation	Resident	N	N
				Trespasser/Visitor	N	N
				Commercial Workers	N	N
				Construction Worker	N	N
				Ecological	N	N
		Surface Water	Incidental Ingestion Dermal Contact Inhalation	Resident	N	N
				Trespasser/Visitor	N	N
				Commercial Workers	N	N
				Construction Worker	N	N
				Ecological	N	N
		Indoor Air	Inhalation	Resident	N	N
				Trespasser/Visitor	N	N
				Commercial Workers	N	N
				Construction Worker	N	N
				Ecological	N	N

## 6.0 RISK CHARACTERIZATION

In accordance with the Massachusetts Contingency Plan, 310 CMR 40.0990, a Method 3 Risk Characterization was conducted for the Site to assess whether reported concentrations of OHM represent a Condition of No Significant Risk. As required, the Method 3 Risk Characterization, completed by O'Reilly, Talbot & Okun Associates, Inc., in October 2008, to evaluate:

1. Assessment of risks to human health,
2. Assessment of risks to public welfare,
3. Assessment of environmental risks, and
4. Assessment of risk of harm to safety.

The risk characterization concluded that a Condition of No Significant Risk to public welfare, the environment, and safety exists at the Site based on available Site data and exposures evaluated for current Site activities and uses.

The human health portion of the Method 3 Risk Characterization concludes that a Condition of No Significant Risk exists for current Site uses and potential exposures to soils to construction

workers and trespassers, and future residents in the north portion of the Site. However, a Condition of No Significant Risk does not exist for unrestricted use by residents and other uses where a child's presence is likely at a high frequency and high intensity of use in the southern area of the Site. The study further concludes that there are no complete exposure pathways to groundwater. There are no exceedances of applicable and suitably analogous standards and potentially significant exposures were not found to exist for aquatic and terrestrial ecological receptors.

Because it was concluded that a condition of No Significant Risk does not exist for unrestricted future use(s) of the southern area of the Site, an AUL was deemed to be required to achieve and/or maintain a Condition of No Significant Risk for the foreseeable future. The Risk Characterization recommended that any planned AUL should specifically restrict all activities and/or uses that are likely to involve the use of the Site by children and/or result in the removal and/or disturbance of the impacted soil from beneath the asphalt lot (or protective barrier). Finally, it was concluded that after implementation of the recommended AUL, a Class A-3 RAO was deemed to be appropriate for the Site.

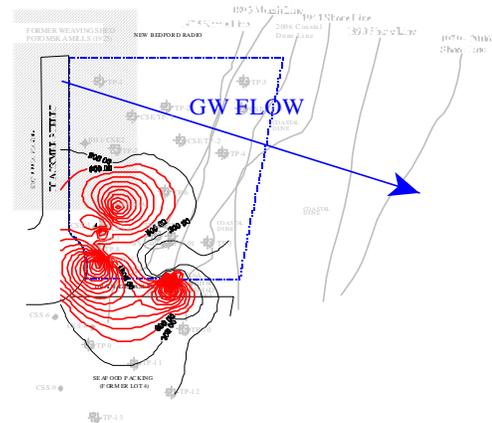
## **7.0 REPRESENTATIVENESS EVALUATION/DATA USABILITY ASSESSMENT**

A Representativeness Evaluation and Data Usability Assessment are presented in this section to document that the data relied upon in this assessment are scientifically valid and defensible and are a sufficient level of precision, accuracy and completeness to support the findings of this report. The following presents a discussion of the site information used to support this RAO as required by 310 CMR 40.1056(2)(k) and incorporating the guidance provided in DEP Policy WSC-07-350. This section essentially provides an evaluation and demonstration of the adequacy of the spatial and temporal data sets used to support this RAO.

### Conceptual Site Model

Section 7 of this report presents the Conceptual Site Model generated as a result of site assessment activities. The historical use of the Property as a mill was an obvious basis for environmental assessments and investigations. However, the primary source for contaminants identified on the subject property is concluded to be related to the presence of historic urban fill emplaced along the New Bedford Harbor shoreline during the early 1900's. The industrial nature of the City of New Bedford during this time and predominant use of coal as a fuel source at the Property during its use as a mill and in surrounding industries would indicate that fill materials would be typical to those encountered in most industrial waterfront areas and would contain various amounts of construction debris, ash and rubble sometimes containing hazardous materials or waste. The limits of urban fill extend well beyond Property boundaries as documented in region wide assessments and neighboring Property RAOs. No specific point source or evidence of significant waste disposal was encountered on the subject Property, but elevated fill related contaminant concentrations appear to coincide with a former roadway and current drainage easement located east of the current Blackmer Street eastern terminus and along

the southern Property boundary. Although the entire eastern half of the subject Property has been the subject of filling through history, it is suspected that this former roadway (which extends to the waters edge on historic maps, may have been paved or surfaced with cinder/ash and was potentially subject to occasional oil spraying during its use throughout the early 1900's. In addition to this possible scenario, the dead end waterfront aspect of the roadway may also have been the location of historic fishing and or roadside dumping activities throughout its history. Regardless of its genesis, elevated concentrations of lead, petroleum and PAHs have consistently been encountered in shallow soils situated within the former roadway area and in areas extending to the northern and southern abutting properties. This identified source has been in place for 75-100 years and has not resulted in any currently measurable impact to groundwater or the surrounding environment. No known use or storage of oil or hazardous materials has occurred at the subject property during the last 50 years.

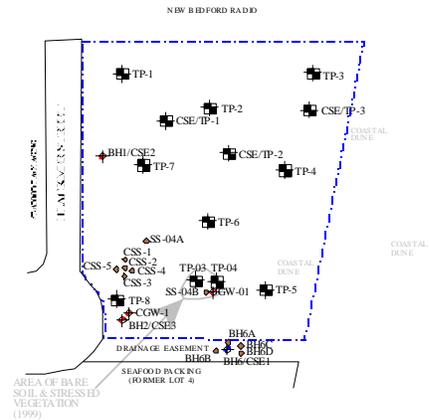


See Figure 9  
(for reference only)

### Sampling Locations

Full access to the subject Property has been historically hindered by heavy vegetation and irregular surface grades. Although this limited accessibility resulted in a low density of sample locations, overall site coverage was reasonably achieved. The assessment was essentially completed in three phases by three different consultants stemming from a larger regionally encompassing historic mill site assessment. Test pits and boring advanced along the eastern shoreline of the former Standard Times Site identified a potential area of dumping and disposal within what is now the southern limits of the subject Property boundaries (after multiple subdivisions and RAOs on surrounding lots). This subject Property was given specific focus in a subsequent assessment completed by Cygnus to define the limits of these identified filled areas. The Cygnus assessment of Lots 3 & 4 included multiple sample locations, test pits and boring installations which provided a reasonable picture of the limits and extent of the regional historic fill horizon (Appendix A). Although no distinct source was identified during this assessment it was concluded that an apparent hot spot of impacted fill was identified in the southern portion of Lot 3. The third phase of the assessment (completed by CSE) was completed for Lot 3 alone and was designed to supplement the previously generated data and fill any apparent data gaps. Difficult access and the lack of visible property boundary boundaries at the time of investigation resulted in a somewhat compromised sampling plan layout. Primarily, boring BH6 was intended to be located in the proximity of TP-04 and TP-05, but post sampling surveying indicated that it had been placed on the southern abutting drainage easement. Coincidentally, this was the area which exhibited the highest lead concentration and was re-sampled in four additional locations to ascertain the extent and reproducibility of this elevated lead hit.

Ultimately, the combined investigation of the eastern shoreline utilized in the development of the CSM consisted of data collected from 37 locations throughout the region. Of this data set, 24 were located within the boundaries of the subject Property. All test pits and borings were advanced to adequate depths to determine the extent of the fill horizon and were well located with respect to the information garnered from historic map review. Collected samples were screened for contaminants most commonly associated with urban fill and other potential sources identified during previous site assessment activities described above. Contaminants typically associated with these sources include: Volatile Organic Compounds (VOCs), Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAHs), PCBs, asbestos, pesticides, herbicides and Heavy Metals.



See Figure 8  
(for reference only)

### Field Screening

Field notes and observations generated by three separate consultants are documented in tables, test pit and boring logs provided in Appendix x of this report. Soils collected continuously to depths of 15 feet below ground surface from a total of twenty-nine distinct locations were visually assessed for content and evaluated for obvious indications of contamination. Fill material containing ash was predominant throughout the subject Property and surrounding area with depths coinciding with distance from the eastern shoreline. In addition to visual inspection, all samples were screened on-site for VOC impact and four (4) soil samples visually observed to contain ash were submitted for confirmatory laboratory analysis. No indication of VOC impact (as indicated by headspace screening) was noted in soil samples collected from the subject property. Two soil samples (SS-04A and SS-04B) submitted for VOC analyses confirm this conclusion. As such, additional VOC analyses were deemed unnecessary in later sampling events. Due to the observation of bits of asphalt, coal and ash in fill materials identified throughout the subject Property (see boring logs), chemical analysis for TPH, SVOCs/PAHs and heavy metals were requested. Total PCB concentrations were identified in three groundwater sampling locations. Field observations of silts and fine particulates in the collected samples indicated that analytical results may have been related to the presence of suspended particulates. Due to the inability to extract silt free samples from these wells, both filtered and decanted samples were collected and laboratory analyzed for dissolved PCB impact. The resulting non-detectable dissolved lead concentration supports the field observation that previously measured PCB concentrations were related to suspended particulates most likely attributable to historic fill potentially sourced from the neighboring New Bedford Harbor (NPL site).

### Temporal Data

Groundwater samples were collected from the subject Site of four (4) occasions and analyzed for various potential contaminants of concern over the life of this assessment. The three sampling events account for three seasons albeit not in sequence and conditions over a seven year time period (1999 – 2007). In general, no reportable concentrations of groundwater impact (with exception to false positive PCB results) were discovered at any time. Temporal data was generated for soil contaminants as soil was sampled and analyzed on multiple occasions during the same time period (1999 – 2007). Based on the age and persistent nature of the release (fill placed during late 1800's) Site soil contaminant concentrations will likely not increase or decrease with time, making temporal soil data less pertinent. Detected concentrations will accordingly remain stable and persistent through the future as supported by the available temporal data.

### Field Completeness

According to the available guidance and industry standards, the chemical contaminants most commonly associated with historic urban fill include: EPH, VPH, VOC, Metals, PCBs, PAHs, Pesticide, asbestos, cyanide and coal/wood ash. Various specific parameters can be eliminated from consideration based on the results of field screening, previous results and or the environmental sensitivity of the release site area. In addition, some target analytes are quantified via different methodologies allowing some flexibility with respect to requested analysis services. The following table provides a summary of analytical services requested for soil and groundwater samples with respect to the above listed common contaminants and the specifically identified confirmed Contaminants of Concern (RC exceedances).

Sample Locus	Media	Field Data	VPH	EPH	VOC	Metals	Lead	PCB	PAH	Pesticide	Asbestos	Cyanide	Coal Ash	confirmed Contaminants of Concern
SS-04A/GW-01	Soil	x	x	x	x	x	x	x	x			x		Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water		x	x		x	x	x	x	x		x		
SS-04B	Soil	x	x	x	x	x	x	x	x	x	x	x		Lead, Benzo(a)pyrene
CSS-1	Soil	x					x							Lead
CSS-2	Soil	x		x			x		x					Lead, Benzo(a)pyrene
CSS-3	Soil	x					x							Lead
CSS-4	Soil	x					x							Lead
CSS-5	Soil	x					x							Lead
CGW-1	Soil	x		x			x	x	x	x				Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water			x				x	x					
TP-1	Soil	x					x							
TP-2	Soil	x					x							
TP-3	Soil	x					x							
TP-4	Soil	x					x							
TP-5	Soil	x					x							
TP-6	Soil	x					x							Lead
TP-7	Soil	x					x							
TP-8	Soil	x					x							
BH1/CSE2	Soil	x		x			x	x	x					
	Water	x		x			x	x	x					
BH2/CSE3	Soil	x		x			x	x	x		x		x	Lead, Coal Ash
	Water	x		x			x	x	x					
BH6/CSE1	Soil	x		x			x	x	x		x		x	Lead
	Water	x		x			x	x	x					
BH6A	Soil	x		x		x	x	x			x			Lead
BH6B	Soil	x					x							Lead
BH6C	Soil	x					x							
BH6D	Soil	x					x							
CSE TP-1	Soil	x		x			x	x	x		x			Coal Ash
CSE TP-2	Soil	x		x			x	x	x		x			
CSE TP-3	Soil	x		x			x	x	x		x			

Notes:  
 X = analysis completed, results below RC standards  
 X = analysis completed, results exceed RC standards  
 Blank = analysis not completed

Review of the data tabulated above confirms that all of the most commonly associated contaminants of potential concern (listed above) have been analyzed for during historic assessment activities. The table is chronologically organized from top to bottom and depicts where previously undetected analytes were omitted from later sampling events (ie. VOC and VPH). The table confirms that the site has primarily been impacted by lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene and Coal Ash. The contaminants of concern identified during the spectrum of analytical testing can be best and most effectively quantified via lead and PAH analysis. Analytical work completed for other historic fill related contaminants of concern did not reveal the presence of any laboratory quantified Reportable Conditions. Laboratory identification of coal ash and urban fill related contaminants are consistent with and confirm field observations. The combination of field observations and laboratory data provided the spatial adequacy necessary to identify Site limits and to evaluate for the presence of hot spots.

Groundwater impact does not exist at the subject Property and off-site migration of detected contaminants in soil is therefore not expected to occur. Although it has been demonstrated that the fill materials present on the subject Property extend beyond the Property boundaries and potentially into the nearby New Bedford Harbor, it is concluded that the level of assessment completed for the subject Property by the PRP is complete with respect to assessing and managing on site risks. Regional assessments completed by others were relied upon to determine the full extent and limits of urban fill related contamination.

#### Data Inconsistency

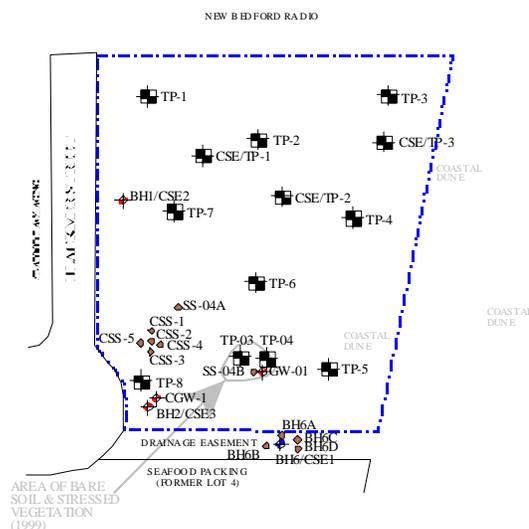
No inconsistent data were identified. Visual observations, odors and field screening were generally well correlated. Specifically, soil samples field noted to contain coal ash exhibited commensurate concentrations of heavy metals and PAHs. Elevated lead and PAH levels appear to coincide with the presence of the former Blackmer Street roadway and or historic outfall locations in the immediate vicinity of the former roadway. Areas beyond this location to the north and south exhibited similar contaminant concentrations but at concentrations more consistent with background for urban fill areas containing coal ash. All temporal data collected throughout the region appears to be consistent with the above defined Conceptual Site Model. In general, field observations of historic fill also related well to filled areas depicted in historic maps. Finally, PCB concentrations detected in sampled monitoring wells coincided directly with the field observation of suspended silts and sediments noted during sampling activities.

#### Data Not Used

As can be seen in the attached plans and tables, it is evident that PCB concentrations measured in site groundwater exceed applicable GW-3 standards. The detected concentrations far exceed the water solubility value of 0.277 mg/L for PCBs, which clearly indicates that the detections are attributable to particulates present in the sample. In order to technically support this supposition, groundwater was re-sampled on July 27, 2006 to evaluate for dissolved PCB concentrations.

Due to the fact that available guidance does not clearly support filtering of groundwater samples for PCB analysis, two samples were extracted from the well for reanalysis. One of the two samples (CSE-2A) was decanted to allow for settlement of suspended solids and the second (CSE-2B) was laboratory filtered. Both samples were analyzed for dissolved PCB's to be consistent with risk based standards and were found to contain non-detectable levels. With this information the initial (false positive) PCB in groundwater results were not used as part of the risk evaluation process.

Soil data not used are limited to those locations situated outside of the defined Site limits and those that are demonstrated to be consistent with background. This specifically includes all soil data generated for the northern portion of the subject Property recently closed via a partial-RAO and the BH6 sample cluster located on the southern abutting drainage easement owned by the City of New Bedford. Although not relevant to this report, it is also suggested that the elevated lead concentration detected at depth in BH6 of 106,000 ppm was highly inconsistent with the regional database generated throughout the former Standard Times site. The results of subsequent analytical testing of four surrounding sample locations (BH6A through BH6D) support the opinion that the data point is an anomaly and not representative of some widespread or serious condition of concern for the City of New Bedford (the current owner of the parcel).



See Figure 8  
(for reference only)

### Data Usability

Although all available laboratory reports were previously provided in the May 2006 Phase I Report, they have been duplicated in this report for ease of reference and in support of this and the attached Method 3 Risk Assessment. Historic data extracted from former consultants summary tables could not be verified because lab reports were not provided. The MADEP MCP Response Action Analytical Report Certification Form provided by GeoLabs indicates that soil and groundwater data generated in the 2006 assessments meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data". All other quality control performance standards were met for the samples and no other laboratory quality control observations were noted. An assessment of data quality with specific reference to duplicate samples collected during this investigation is provided as an attachment to this report (refer to Appendix F). In general, it is evident based on a review of data

provided in the above summary tables that duplicate soil samples collected during this assessment failed to provide an adequate assessment of laboratory accuracy. The variability of detected concentrations demonstrates the non-uniform nature of the detected contaminants in site soils expected in areas of fill. As a result of this finding, duplicate samples were considered as discreet samples in the development of Exposure Point Concentrations in later sections of this report. As indicated above, although the data generated by previous consultants was utilized in the Method 3 Risk Assessment, it could not be evaluated for CAM compliance and as such are deemed to be non-CAM Compliant. It is argued that utilizing the data, which was generally confirmed through more recent CAM compliant data and was ultimately the reason for release notification, provides a conservative and representative estimate of site related risks. Furthermore, in consideration of the reputation within the environmental community of the specific previous consultants (M&E and Cygnus), it is deemed very likely that proper sample collection protocols were followed and the data would ultimately prove to be CAM compliant if the necessary information were available.

#### Uncertainty Assessment

No inconsistent data were identified. Visual observations, odors and field screening were generally well correlated. Additional technical justification for forgoing any specific activity required by 310 CMR 40.0000, related to Initial Site Investigation Activities performed in accordance with 310 CMR40.0405(1), judged by the LSP-of-Record to be unnecessary or inappropriate based upon the conditions and characteristics of this disposal site are provided in the pertinent sections of this report. Further uncertainties related to the findings of the Methods 3 Risk Characterization are provided in the OTO report.

## **8.0 PHASE III - REMEDIAL EVALUATION**

According to Sections 301 CMR 40.0850 through 40.0864, a Phase III Evaluation and Selection of Comprehensive Remedial Action Alternatives is required to identify the most appropriate remedial action alternative which is a likely Permanent Solution, except where it is demonstrated pursuant to 310 CMR 40.0850 that a Permanent Solution is not feasible or that the implementation of a Temporary Solution would be more cost-effective and timely than the implementation of a feasible Permanent Solution.

#### *Initial Screening and Selection of Remedial Action Alternatives*

In accordance with the MCP, an identification and evaluation of remedial action alternatives shall be undertaken for all disposal sites where a Phase III is required. An effective evaluation involves the collection of background information regarding the type of contamination and a review of existing and potential future site conditions to determine whether or not site specific improvements would be obtained. The choice of two (2) or three (3) options which might be appropriate for a given site is based upon a systematic comparison of the characteristics of the

site and the correlating characteristics of the feasible alternatives. In order to fully evaluate the potential alternatives, an initial screening process was conducted which involved the following:

- Identifying remedial alternatives;
- Identifying remedial technologies which may be applicable to site specific conditions;
- Evaluating identified technologies; and,
- Determining their viability with respect to improving existing conditions.

Using the EPA document “Remediation Technologies Screening Matrix and Reference Guide (1993)”, and various other on-line resources, the feasibility evaluation explored various remedial options. From review of the screening matrix, several proven remedial technologies that would successfully mitigate the residual metals and PAH contamination found in soil were identified. Specifically, the following remedial alternatives were evaluated.

1. Excavation of Residually Contaminated Soil
2. Soil Flushing
3. Solidification/Stabilization
4. Vitrification

A detailed evaluation of the remedial action alternatives identified by the initial screening is conducted to provide the basis for the selection of the remedial action alternative. The detailed evaluation shall evaluate and compare different remedial alternatives using the criteria described in 310 CMR 40.0858. A detailed evaluation is not required in those cases where a remedial action alternative identified during the initial screening:

- (a) is proven to be effective in remediating the types of oil and hazardous material present at the disposal site, based upon experience gained at other disposal sites with similar site and contaminant conditions;
- (b) results in the reuse, recycling, destruction, detoxification, treatment or any combination thereof of the oil and hazardous material present at the disposal site;
- (c) can be implemented in a manner that will not pose a significant risk of harm to health, safety, public welfare or the environment, as described in 310 CMR 40.0900; and
- (d) is likely to result in the reduction and/or control of oil and/or hazardous material at the disposal site to a degree and in a manner such that the requirements of a Class A Response Action Outcome as set forth in 310 CMR 40.1000 will be met.

The following discussion specific to each alternative identified in the initial screening phase addresses these points:

1. Excavation of Residually Contaminated Soil

The remedial option proposes the excavation of impacted soil located throughout the subject Site. The process simply involves the removal of the top zero to 7 feet of historic urban fill from

the subject Site with the use of heavy machinery. Once excavated, the contaminated material is then removed and transported to a permitted off-site treatment and/or disposal facility. In researching this option, it is evident that the removal of impacted soils would ultimately prove the most effective means for achieving background and establishing a condition of no significant risk for the foreseeable future. However, based on the known nature and extent of historic urban fill located throughout the Site, an estimated volume potentially exceeding 10,000 cubic yards of fill would require removal and replacement. Assuming a minimal disposal cost of \$50 per ton, total financial outlay for **disposal alone** could easily exceed \$750,000. These costs would obviously be reduced in the event that an accessible hot spot or UCL exceedance exists within the fill horizon, but neither condition was identified as part of site assessment activities.

## 2. Soil Flushing

The remedial option consists of utilizing water or water containing an additive to enhance the solubility of heavy metals remaining in soil. The heavy metals would then leach into the groundwater, which is then captured through hydraulic controls and extraction points and either treated on site or removed for disposal. Based on the fact that leaching of contaminants is not currently occurring at the subject Site it evident that this approach could potentially create a condition of risk to surrounding receptors that don't currently exist. Furthermore, the presence and potential transport of these additives in groundwater flow to the abutting water body may also pose additional risks beyond those posed by the release of Site contaminants. Ultimately, the premise of promoting inter-media transfer seems counterintuitive and disproportionately risky with respect protecting the environment. Based on this, this approach was considered to be infeasible based on potential impact to environmental receptors 310 CMR 40.0442(1)(b).

## 3. Solidification/Stabalization

The technology is employed to physically bind or enclose a contaminant within a stabilized mass (solidification), or to promote chemical reactions between the stabilizing agent and the contaminants to reduce their mobility. The effectiveness of this treatment is contingent upon the agitation of impacted soils so as to effectively lock up any contaminants. Accordingly, this would require removal and treatment of soils located to depths of 7 feet below ground surface on an approximate 1 acre parcel. In the event that the process is ineffective, multiple treatments may be required and logic would suggest that if personnel and machinery are to be utilized to excavate soils for treatment, it would be most effective to physically remove the material and dispose off site versus treating it in-situ and running the risk of requiring multiple evolutions. Furthermore, re-treatment would be further implicated by the presence of solidified surface materials effectively restricting access to underlying soils that may not have been effectively treated. Finally, this application would likely be most effective in circumstances where contaminants were solvent and impacting groundwater, which is not the case at the subject Site. Accordingly, this alternative is deemed infeasible on the basis of disproportionate expense and applicability.

#### 4. Vitrification

The technology employs electrodes for applying electricity, or joule heating, to melt contaminated soil, producing a glass and crystalline structure with very low leaching characteristics. This process is very expensive and is most often applied in situations where leaching potential exists. Based on the fact that groundwater impact at the subject Site is not apparent, the scale of this treatment is deemed to be prohibitive and disproportionately expensive relative to the overall gains.

In summary of the above, it is concluded that the most viable remedial option for effectively returning the site to levels approaching background and maintaining a condition of no significant risk for the foreseeable future is essentially limited to the excavation and disposal of impacted historic urban fill.

### 8.1 Feasibility Evaluation

In order to evaluate the feasibility of this alternative with respect to benefit, CSE relied on DEP Policy #WSC-04-160 (see above). According to the policy:

*“...considerable confusion has historically existed over the meaning of “feasibility” under c. 21 E and the MCP. In the context of the law and regulations, “feasible” is not synonymous with “possible.” Feasibility is also not solely a function of cost. While feasibility has a number of regulatory components, as discussed throughout the policy, most decisions come down to one key determinant: do the benefits of achieving a remedial endpoint outweigh the costs”? Accordingly, this benefit-vs.-cost element is the focus of said policy.*

The described policy provides specific approaches and criteria that DEP finds acceptable for evaluating the feasibility of achieving or approaching background and/or supporting a conclusion that achieving or approaching background is infeasible. While other approaches and metrics may also exist to conform to regulatory requirements, parties who elect to use the approaches and criteria articulated in this policy will be assured of Presumptive Certainty of agency acceptance.

According to said policy, certain types of pollutants located in specific environmental settings may be considered to be categorically infeasible to remediate to background. In these cases, documentation that disposal site conditions are consistent with the criteria provided in said document (subsections of 9.3.2) would be sufficient to support a conclusion that achieving or approaching background is not feasible. It is further stated that it would be unnecessary to conduct a site-specific feasibility evaluation for that particular scenario.

With specific reference to the subject Site, according to Section 9.3.2.4 (**Remediation of Persistent Contaminants Located in S-2 and S-3 Soils**), it is DEP’s position that achieving or approaching background can be deemed infeasible for persistent contaminants in soil located in

areas with lower exposure potential (i.e., S-2 and S-3 soil categories). For example, this policy supports a finding that it is infeasible to achieve or approach background for vinyl chloride (a persistent compound) in soil located in an area classified as S-2 or S-3.

Table 9-2 of the policy provides a list of contaminants that are considered persistent in the environment. This list is consistent with those organic compounds considered to be persistent in the environment as provided on Table 4 of 310 CMR 40.1514(4); it also includes metals, which are considered to be persistent in the environment. Based on a comparison of the contaminants of concern identified in the attached Method 3 Risk Assessment, it is evident that site contaminants and soil classifications fit these criteria. As such and in accordance with Policy #WSC-04-160, a site-specific feasibility assessment as described at 310 CMR 40.0860 is not required, as it is categorically infeasible to return the subject Site to background.

## ***8.2 Phase III Completion Statement***

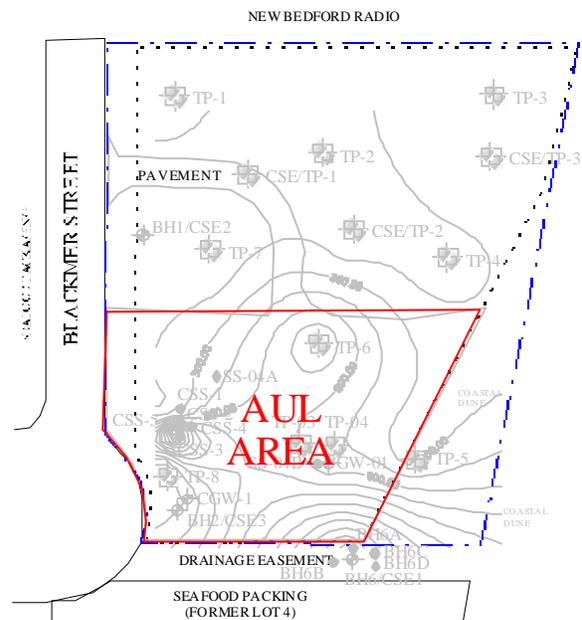
In review of the above, it is evident that based on the known nature and extent of impacted historic urban fill at the subject Site, no feasible alternative for Site remediation to background exists. Furthermore, based on the results of the Method 3 Risk Characterization no remediation was deemed necessary to ensure a condition of no significant risk under either current use or proposed future use. However, due to potential significant risks associated with residential use of the site an AUL was deemed necessary to achieve a permanent solution. In light of the PRPs intent to immediately develop the subject Site for use as a paved parking lot, it was decided that the pavement would be best emplaced prior to site closure to ensure consistency and relevancy with respect to the proposed AUL. Although this action (completed in the fall of 2008 as a Release Abatement Measure) essentially resulted in the “capping” of impacted soils with an asphalt lot, the need for an MCP defined “Engineered Barrier” is **not** required for this release Site based on the lack of UCL exceedances and Method 3 Risk Characterization findings. The paved lot hereby eliminates all potential exposure pathways to the underlying soil (“locking in” the S2/S3 soil categorization) and facilitates the property owner’s ability to maintain compliance with the restrictions of the implemented AUL with minimal costs or regulation.

## ***9.0 LSP OPINION AND CONCLUSIONS***

The following is an exact copy of the LSP Opinion included in the Activity and Use Limitation implemented to ensure a condition of no significant risk for the foreseeable future. A copy of the registry certified document is provided as required as Appendix G of this report.

In accordance with the requirements of 310 CMR 40.1074, this Licensed Site Professional (LSP) Opinion has been prepared in support of the Notice of Activity and Use Limitation (AUL) for a portion of the parcel of land identified on City of New Bedford Assessor’s Plat 25A as Lot 49, and addressed as 16 Blackmer Street, New Bedford, Massachusetts (the Property). At the time

of the recording of this AUL, the 2.185 acre parcel of vacant land is located within a working waterfront district zoned for industrial use. As illustrated in Exhibit B attached hereto, a large paved parking area occupies the southernmost portion of the Property. A City drainage easement abuts the southern Property line.



See Figure 10  
(for reference only)

### Site History

Multiple 21E investigations conducted at the Property have identified elevated levels of lead, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH's) in soil, likely attributable to the presence of historic urban fill emplaced along the New Bedford waterfront area. The Department of Environmental Protection (DEP) was notified of the release condition (lead and PAH), and Phase I and Phase II site investigations were completed at the site to define the extent and magnitude of contamination. The primary contaminant of concern was identified as lead and was detected at concentrations ranging from 42 mg/kg to 287 mg/kg in surface and subsurface soil (from 0 to 8 feet in depth) situated throughout the unpaved northern portion of the Property. Higher levels of lead were found in soil samples collected from the same depths beneath the currently paved southern portion of the Property at concentrations ranging from 30 to 5780 mg/kg. Other contamination detected above state reportable concentrations identified at the site generally mirrored the locations and trends exhibited by lead and specifically consisted of Benzo(a)pyrene at concentrations as high as 13 mg/kg; Dibenzo(a,h)anthracene at concentrations as high as 10 mg/kg; and petroleum hydrocarbons at concentrations as high as 900 mg/kg. Groundwater monitoring has adequately demonstrated that the release has not affected groundwater.

### Reason for Activity and Use Limitation

A Method 3 Risk Characterization was prepared to support a Response Action Outcome for the site. The Risk Characterization concluded that No Significant Risk to human health, safety, public welfare, and the environment exists for activities and uses consistent with current

commercial/industrial uses of the Property including emergency utility work and/or any construction projects. However, a level of No Significant Risk is not supported for future unrestricted activities and uses of the southern paved portion of the Property, such as those which may result in a child's exposure through direct contact with and/or ingestion of the contaminated soil. In order to maintain a level of No Significant Risk for future foreseeable site activities and uses, an Activity and Use Limitation is necessary to ensure that the soil currently located beneath the paved area located on the southern portion of the Property remains inaccessible and the exposure pathways remain incomplete. To that end, the Activity and Use Limitation will require the maintenance of the current pavement or other suitable physical barrier (including buildings and concrete sidewalks) so that direct contact with underlying soils is not possible by visitors to the subject Property. In addition, activities which may result in the disturbance or relocation of the underlying soil to more accessible areas must also be restricted. The following presents said obligations and conditions as provided in the Activity and Use Limitation.

#### Permitted Uses and Activities

- (i) Commercial and industrial activities and uses including, but not limited to, vehicular parking, pedestrian and vehicular traffic, passive recreation, landscaping, routine maintenance or any other use that does not compromise the structural integrity of the protective barrier, as defined in 3.(iv) and/or disturb contaminated soil located directly beneath the barrier;
- (ii) Excavation associated with emergency or short term (three months or less) underground utility and/or construction work, provided it is conducted in accordance with a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Notice; and involves the repair and/or replacement of the protective barrier with a comparable barrier immediately following the completion of the project;
- (iii) Activities and uses that are not identified by this Notice as being inconsistent with maintaining a condition of No Significant Risk; and
- (iv) Such other activities and uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

#### Restricted Uses and Activities

- (i) Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely;
- (ii) Activities and/or uses which are likely to involve the removal and/or disturbance of the

protective barrier in the AUL Area and/or the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;

- (iii) Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and
- (iv) Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

#### Obligations and Conditions

- (i) A Soil Management Plan must be prepared by an LSP and implemented prior to the commencement of any activity that is likely to disturb the contaminated soil located immediately beneath the protective barrier. The Soil Management Plan should describe appropriate soil excavation, handling, storage, transport, and disposal procedures and include a description of the engineering controls and air monitoring procedures necessary to ensure that workers and receptors in the vicinity are not affected by fugitive dust or particulates. On-site workers must be informed of the requirements of the Soil Management Plan, and the plan must be available on-site throughout the course of the project;
- (ii) A Health and Safety Plan must be prepared by a Certified Industrial Hygienist or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity which involves the removal and/or disturbance of the protective barrier and/or is likely to disturb the underlying contaminated soil, rendering it more accessible. The plan should clearly describe the location of the contaminated soil and specifically identify the types of personal protective equipment, monitoring devices, and engineering controls necessary to ensure that workers are not exposed to the contaminated soil through dermal contact, ingestion, and/or the inhalation of particulate dusts. Workers who may come in contact with contaminated soil within the designated AUL area must be informed of the location of the contamination and all requirements of the Health and Safety Plan. The plan must be available on-site throughout the course of the project;
- (iii) The protective barrier within the AUL Area must be repaired and/or replaced with a comparable barrier to prevent future exposures to underlying contaminated soil immediately following the completion of any activity that involves its removal and/or disturbance;

- (iv) The protective barrier shall consist of either a minimum of 3-inches of asphalt pavement (or concrete), 3-feet of clean soil or a building;
- (v) The protective barrier must be maintained within the designated AUL area to ensure that the contaminated soil located beneath the barrier remains inaccessible; and
- (vi) Annual inspections and associated record-keeping activities must be performed to confirm that the barrier is being properly maintained to prevent exposure(s) to contaminated soil located immediately beneath the protective barrier.

## ***10.0 PUBLIC INVOLVEMENT***

Public involvement notifications relevant to the submittal of this Phase II Comprehensive Site assessment, Phase III Remedial Evaluation and Class A-3 Response Action Outcome Report will be conducted in accordance with 310 CMR 40.1400. Specifically, notifications to the City of New Bedford Environmental Stewardship Office and Board of Health are being made concurrent with this submittal by forwarding the cover letter of this report along with copies of the registry certified AUL and the scheduled newspaper advertisement provided in Appendix H.

Also, during July 2006 assessment activities aimed at developing an Activity and Use Limitation for the southern portion of the Property it was realized that the southern easement is owned by the City of New Bedford. Immediately upon discovering that BH6, BH6A-BH6D/CSE1 was located on City of New Bedford property, Common Sense contacted Scott Alphonse, Director of Environmental Stewardship for the City of New Bedford on August 7, 2006. Common Sense personally met with Mr. Alphonse on August 25, 2006 to explain the situation and provide a copy of the applicable field data. Subsequently, the City of New Bedford was officially notified on September 19, 2006 in compliance with 310 CMR 40.1403(9) and 310 CMR 40.1404. A copy of which is also presented in Appendix G.

## Figures



NOTES:  
 BASE MAP TAKEN FROM 7.5 MINUTE  
 USGS QUADRANGLE MAP:  
 NEW BEDFORD SOUTH, MASSACHUSETTS (1977)



DRAWN BY: KB PROJ. MGR: CG PROJECT NO: W024 SCALE: NOTED DATE: 09/24/08	UTM COORDINATES: Zone 19 0340386E 4609282N  COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	<b>SITE LOCUS</b>  FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS	FIGURE NUMBER:  <b>1</b>
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16 Blackmer St, New Bedford

DRAWN BY: KB  
PROJ. MGR: CG  
PROJECT NO: W024  
SCALE: NOTED  
DATE: 09/24/08

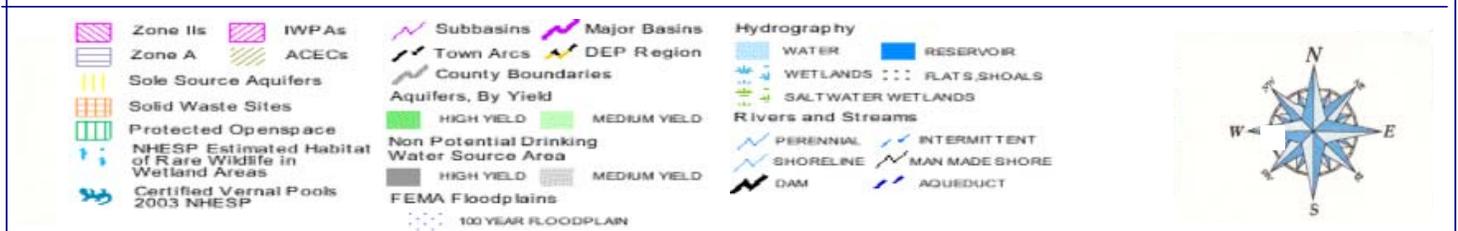
# AERIAL PHOTOGRAPH

COMMON SENSE ENVIRONMENTAL, INC.  
50 THERESA STREET  
DARTMOUTH, MASSACHUSETTS 02748  
PHONE: 508-991-3491

FORMER LOT 3  
16 BLACKMER STREETS  
NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:

2



DRAWN BY: KB  
 PROJ. MGR: CG  
 PROJECT NO: W024  
 SCALE: NOTED  
 DATE: 09/24/08

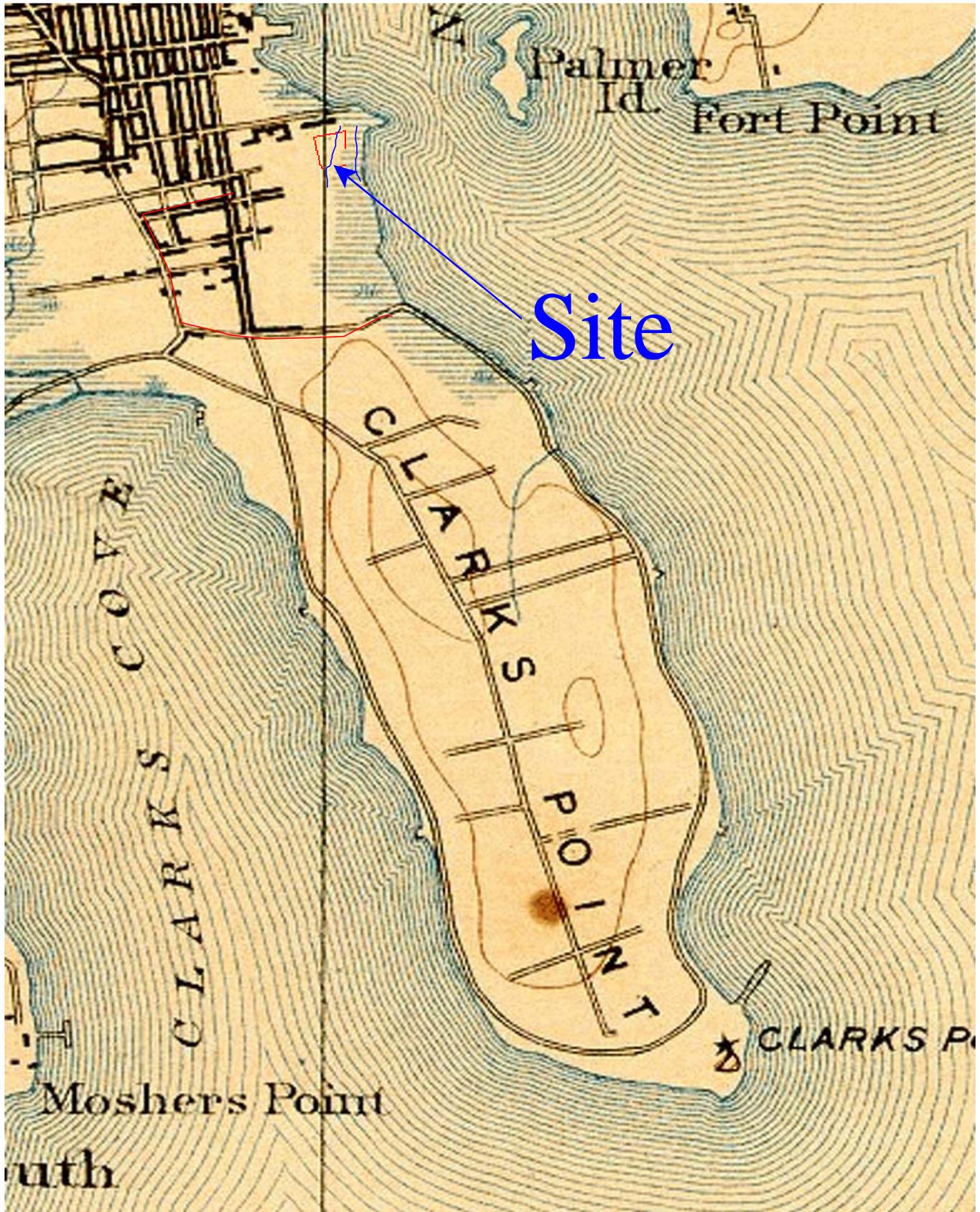
UTM COORDINATES:  
 Zone 19 0340386E 4609282N

COMMON SENSE ENVIRONMENTAL, INC.  
 50 THERESA STREET  
 DARTMOUTH, MASSACHUSETTS 02748  
 PHONE: 508-991-3491

**BWSC PRIORITY RESOURCE**

FORMER LOT 3  
 16 BLACKMER STREETS  
 NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:  
**3**



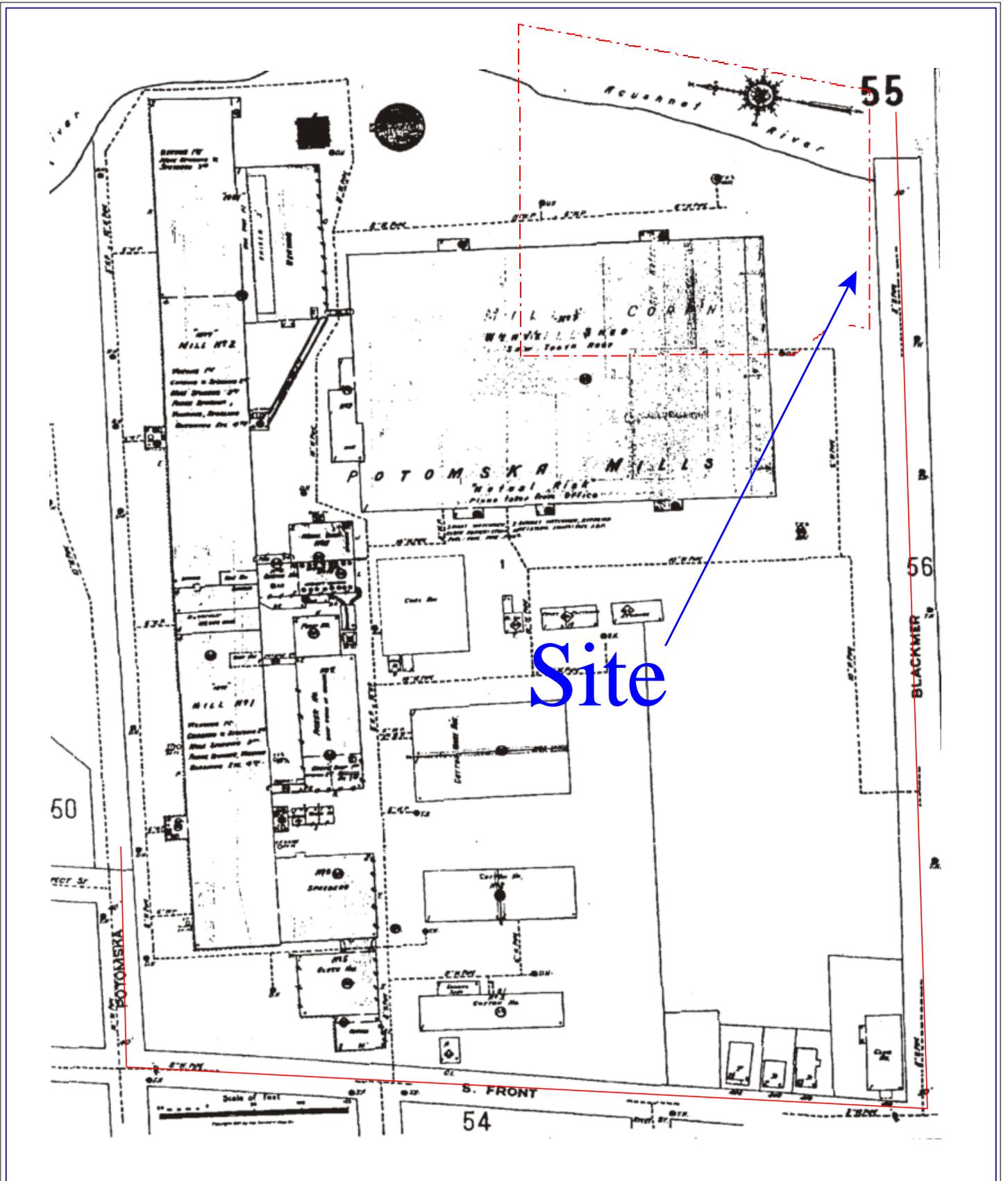
DRAWN BY: KJB  
 PROJ. MGR: KJB  
 PROJECT NO: W024  
 SCALE: NTS  
 DATE: 09/24/08

**USGS TOPOGRAPHIC MAP**  
**1893**

COMMON SENSE ENVIRONMENTAL, INC.  
 50 THERESA STREET  
 DARTMOUTH, MASSACHUSETTS 02748  
 PHONE: 508-991-3491

FORMER LOT 3  
 16 BLACKMER STREETS  
 NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:  
4



**SANBORN FIRE INSURANCE MAP**  
1925

FIGURE NUMBER:

**5**

DRAWN BY: KJB  
 PROJ. MGR: KJB  
 PROJECT NO: W024  
 SCALE: NTS  
 DATE: 09/24/08

COMMON SENSE ENVIRONMENTAL, INC.  
 50 THERESA STREET  
 DARTMOUTH, MASSACHUSETTS 02748  
 PHONE: 508-991-3491

FORMER LOT 3  
 16 BLACKMER STREETS  
 NEW BEDFORD, MASSACHUSETTS



Site

DRAWN BY: KJB  
 PROJ. MGR: KJB  
 PROJECT NO: W024  
 SCALE: NTS  
 DATE: 09/24/08

USGS TOPOGRAPHIC MAP  
 1941

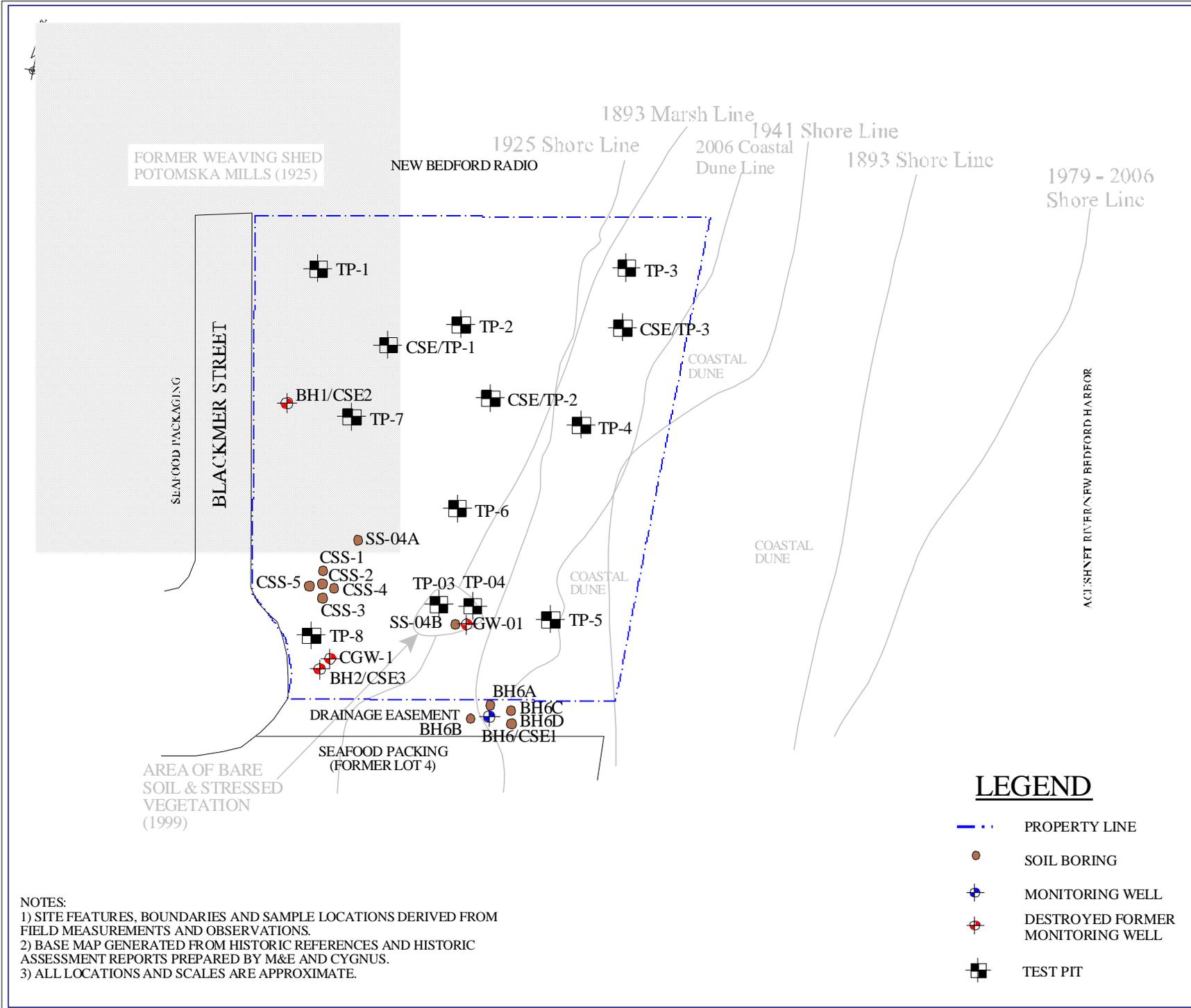
COMMON SENSE ENVIRONMENTAL, INC.  
 50 THERESA STREET  
 DARTMOUTH, MASSACHUSETTS 02748  
 PHONE: 508-991-3491

FORMER LOT 3  
 16 BLACKMER STREETS  
 NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:

6



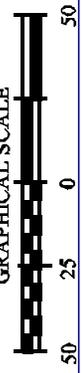


NOTES:  
 1) SITE FEATURES, BOUNDARIES AND SAMPLE LOCATIONS DERIVED FROM FIELD MEASUREMENTS AND OBSERVATIONS.  
 2) BASE MAP GENERATED FROM HISTORIC REFERENCES AND HISTORIC ASSESSMENT REPORTS PREPARED BY M&E AND CYGNUS.  
 3) ALL LOCATIONS AND SCALES ARE APPROXIMATE.

**LEGEND**

- PROPERTY LINE
- SOIL BORING
- MONITORING WELL
- DESTROYED FORMER MONITORING WELL
- TEST PIT

**GRAPHICAL SCALE**

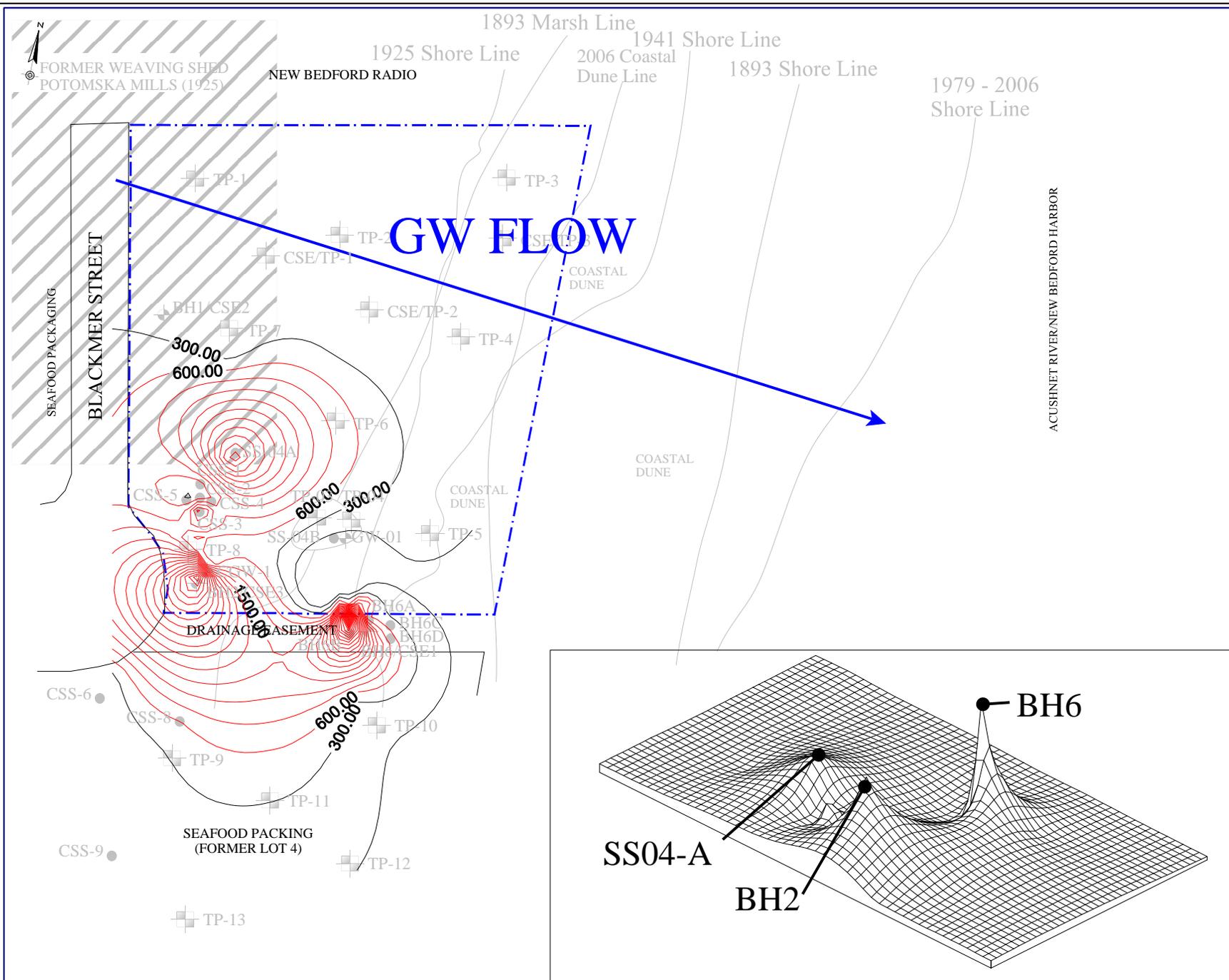


DRAWN BY: KJB  
 PROJ. MGR: KJB  
 PROJECT NO: W024  
 SCALE: NOTED  
 DATE: 9/24/08

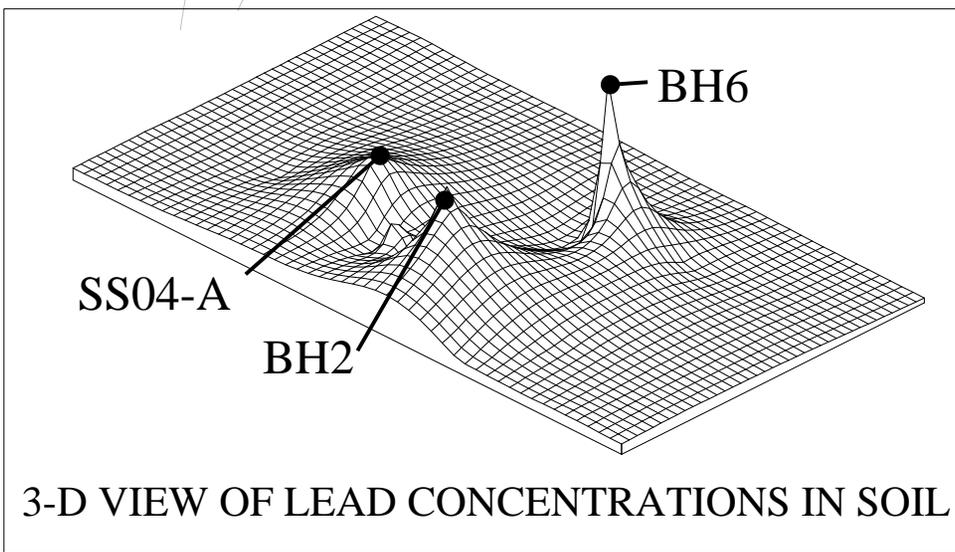
**MASTER SAMPLING PLAN**  
 FORMER LOT 3  
 16 BLACKMER STREET  
 NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:

COMMON SENSE ENVIRONMENTAL, INC.  
 59 THURSA STREET  
 DARTMOUTH, MASSACHUSETTS 01918  
 PHONE: 508-591-3491



NOTES:  
 1) BASE MAP AND LEAD DATA OBTAINED FROM HISTORIC REFERENCES AND ASSESSMENT REPORTS PREPARED BY M&E AND CYGNUS.  
 3) ALL LOCATIONS AND SCALES ARE APPROXIMATE.



COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	
DRAWN BY: KJB PROJ. MGR: KJB PROJECT NO: W024	SCALE: NOTED DATE: 9/24/08
<b>CONCEPTUAL SITE MODEL</b> FORMER LOT 3 16 BLACKMER STREET NEW BEDFORD, MASSACHUSETTS	
FIGURE NUMBER: <h1 style="text-align: center;">9</h1>	

NEW BEDFORD RADIO



SEAFOOD PACKAGING

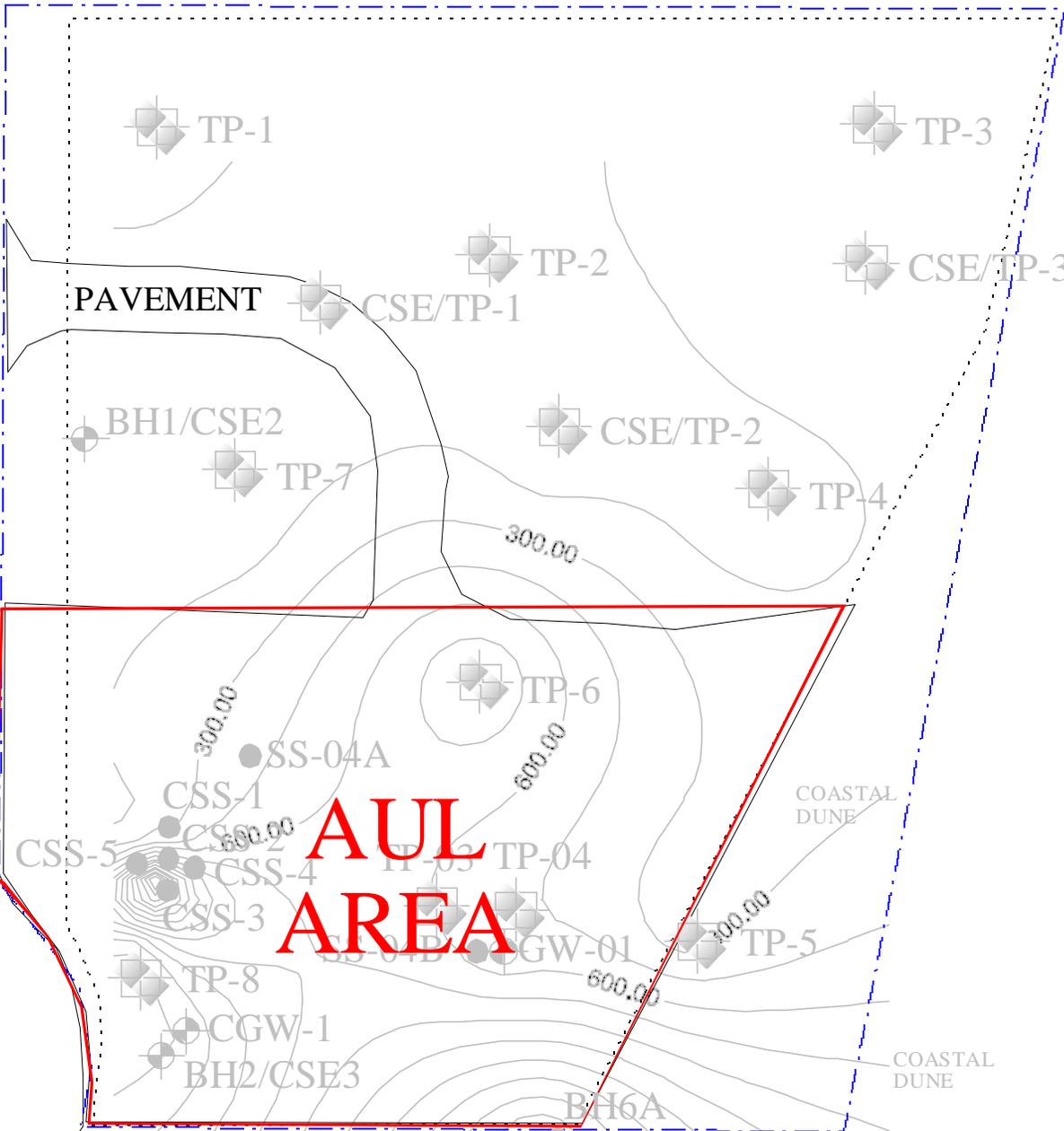
BLACKMER STREET

PAVEMENT

**AUL  
AREA**

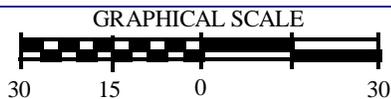
DRAINAGE EASEMENT

SEAFOOD PACKAGING  
(FORMER LOT 4)



NOTES:  
 (1) DRAWING DETAILS OBTAINED FROM ASSESSORS MAPS, AERIAL PHOTOGRAPHS, SURVEY PLANS GENERATED BY SITEC ENGINEERING INC. AND FIELD OBSERVATIONS. ALL SCALES ARE APPROXIMATE.  
 (2) LEAD CONTOURS REPRESENT TOTAL LEAD ON SOIL FROM 0-3 FEET BGS.

DRAWN BY: KJB  
 PROJ. MGR: KJB  
 PROJECT NO: W024  
 SCALE: 1" = 30'  
 DATE: 09/24/08



COMMON SENSE ENVIRONMENTAL, INC.  
 50 THERESA STREET  
 DARTMOUTH, MASSACHUSETTS 02748  
 PHONE: 508-991-3491

AUL AREA PLAN

FORMER LOT 3  
 16 BLACKMER STREETS  
 NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:

10

## Tables

**Table 1A**  
**EPH, PAHs, and Coal Ash Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**  
**Concentration (mg/kg)**

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008		SS-04A**	SS-04B**	TP-03	TP-04	CSS-2	CSS-2	CSS-500*	CSS-500*	CGW1/S-3	BH2	BH2	Duplicate 4 (CSETP1 3-6')
	RCS-1	RSC-2	0-3 09/28/99	0-3 09/28/99	M&E 01/2000	M&E 01/2000	0-3 03/06/00	3-6 03/06/00	0-3 03/06/00	3-6 03/06/00	0-2 03/07/00	2.5-4 05/25/06	4-6.5 05/25/06	
<b>TARGET EPH</b>														
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	3.2	ND	DU	DU	ND	ND	ND	ND	ND	<13.2	<11.8	<13.0
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	50	19	DU	DU	29	17.0	27.0	16.0	32.0	32.2	19.2	<13.0
C11-C22 Aromatic Hydrocarbons	1,000	3,000	180	120	DU	DU	78.0	280.0	120.0	240.0	180.0	117.0	177.0	<13.0
<b>PAHs</b>														
Naphthalene	4	40	0.45	0.51	DU	DU	ND	2.200	ND	0.550	0.740	0.203	0.280	<0.0649
2-Methylnaphthalene	0.7	80	0.44	0.25	DU	DU	5.000	0.860	ND	ND	ND	<0.0658	<0.058	<0.0649
Acenaphthene	2	3,000	0.47	1.2	DU	DU	ND	2.000	0.900	0.850	2.100	0.405	0.689	<0.130
Phenanthrene	10	1,000	11	14	DU	DU	5.400	36.000	7.900	27.000	23.000	5.770	8.260	<0.0649
Acenaphthylene	1	10	1.2	0.7	DU	DU	ND	0.600	ND	0.540	ND	0.213	0.276	<0.0649
Fluorene	1,000	3,000	1.6	1.4	DU	DU	0.640	3.800	0.990	2.200	2.800	0.495	0.795	<0.0325
Anthracene	1,000	3,000	3.3	4.2	DU	DU	1.400	8.300	2.300	6.400	6.500	1.130	1.720	<0.0649
Fluoranthene	1,000	3,000	16	21	DU	DU	7.60	41.00	9.600	35.000	23.000	8.430	10.800	<0.260
Pyrene	1,000	3,000	20	19	DU	DU	7.60	38.00	9.700	32.000	22.000	7.110	8.910	<0.260
Benz[a]Anthracene	7	40	8.9	10	DU	DU	3.50	17.00	4.500	16.000	9.800	3.470	4.380	<0.130
Chrysene	70	400	8.4	9.9	DU	DU	3.80	16.00	4.900	13.000	10.000	3.470	4.470	<0.130
Benzo[b]Fluoranthene	7	40	7.7	9.1	DU	DU	3.900	18.000	5.100	14.000	9.700	<0.197	<0.176	<0.195
Benzo[k]Fluoranthene	70	400	5	11	DU	DU	1.60	3.50	2.500	5.600	4.600	<0.132	<0.118	<0.130
Benzo[a]Pyrene	2	4	<b>8.2</b>	<b>11</b>	DU	DU	<b>3.200</b>	<b>13.000</b>	<b>4.100</b>	<b>11.000</b>	<b>8.400</b>	<0.132	<0.118	<0.130
Indeno[1,2,3-c,d]Pyrene	7	40	7.5	7.4	DU	DU	2.600	10.000	4.000	9.200	6.500	<0.0658	<0.0588	<0.0649
Dibenzo[a,h]Anthracene	0.7	4	<b>7.5</b>	2.5	DU	DU	2.600	<b>10.000</b>	<b>4.000</b>	<b>9.200</b>	<b>6.500</b>	<0.132	<0.118	<0.130
Benzo[g,h,i]Perylene	1,000	3,000	5.3	8.3	DU	DU	2.000	7.300	3.600	6.700	4.700	<0.132	<0.118	<0.130
<b>COAL ASH</b>							NA	NA	NA	NA	NA	NA	coal ash	NA
* Duplicate of CSS-2							Cygnus TP-1 through TP-8 were NA for EPH/PAH							
ND - Non Detect							RCs updated in Feb 2008							
NA - Not Analyzed							** Pesticides detected at estimated concentrations less than the RSC-2 standards.							
NS - Not Specified							DU - Data unknown/Unavailable - data tables, missing from M&E and Cygnus reports, but discussed in body of report.							
<b>Bold</b> indicates RCS2 threshold exceeded														

**Table 1A**  
**EPH, PAHs, and Coal Ash Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**  
**Concentration (mg/kg)**

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008		BH1	BH-1	CSE TP-1	CSE TP-1	CSE TP-2	CSE TP-2	CSE TP-3	Duplicate 3	CSE TP-3
	RCS-1	RSC-2	0-2.5 05/25/06	2.5-5 05/25/06	0-3 05/25/06	3-6 05/25/06	0-3 05/25/06	3-6 05/25/06	0-3 05/25/06	(CSETP3 0-3') 05/25/06	3-6 05/25/06
<b>TARGET EPH</b>											
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	<11.5	<12.2	<14.5	<13.2	<15.2	<15.4	<12.0	<12.3	<13.3
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	20.2	83.4	<14.5	<13.2	15.2	54.7	12.7	44.1	<13.3
C11-C22 Aromatic Hydrocarbons	1,000	3,000	292.0	242.0	<14.5	<13.2	902.0	84.3	337.0	613.0	<13.3
<b>PAHs</b>											
Naphthalene	4	40	0.147	0.239	<0.0725	<0.0658	<0.0758	<0.0769	0.210	0.185	<0.0667
2-Methylnaphthalene	0.7	80	<0.057	<0.061	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Acenaphthene	2	3,000	0.602	0.420	<0.145	0.132	<0.152	<0.154	0.301	0.827	<0.133
Phenanthrene	10	1,000	25.800	6.740	0.380	<0.0658	36.400	1.500	9.350	21.500	<0.0667
Acenaphthylene	1	10	1.260	0.307	<0.0725	<0.0658	1.390	0.246	0.619	0.731	<0.0667
Fluorene	1,000	3,000	1.830	0.505	<0.0362	<0.0329	1.320	<0.0385	0.535	1.410	<0.0333
Anthracene	1,000	3,000	4.660	1.300	<0.0725	<0.0658	7.840	0.317	1.600	3.700	<0.0667
Fluoranthene	1,000	3,000	33.000	11.400	0.357	<0.263	64.700	3.170	20.700	33.600	<0.267
Pyrene	1,000	3,000	27.800	10.100	0.304	<0.263	59.500	2.950	18.300	33.300	<0.267
Benz[a]Anthracene	7	40	12.100	4.900	0.186	<0.132	<b>29.400</b>	1.310	<b>9.850</b>	<b>15.700</b>	<0.133
Chrysene	70	400	11.300	5.110	0.275	<0.132	26.000	1.460	9.870	16.400	<0.133
Benzo[b]Fluoranthene	7	40	<0.172	<0.183	<0.217	<0.197	<0.227	<0.231	<0.181	<0.185	<0.200
Benzo[k]Fluoranthene	70	400	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[a]Pyrene	2	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Indeno[1,2,3-c,d]Pyrene	7	40	<0.0575	<0.0610	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Dibenzo[a,h]Anthracene	0.7	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[g,h,i]Perylene	1,000	3,000	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
<b>COAL ASH</b>			NA	NA	COAL ASH	NA	NA	NA	NA	NA	NA
* Duplicate of CSS-2 ND - Non Detect NA - Not Analyzed NS - Not Specified <b>Bold</b> indicates RCS2 threshold exceeded											
Cygnum TP-1 through TP-8 were NA for EPH/PAH RCs updated in Feb 2008											

**Table 1B**  
**PCBs and Asbestos Containing Materials (ACM) Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**  
**Concentration (mg/kg)**

Sample location	South Area	North Area	North Area	South Area	South Area	South Area	South Area	South Area	North Area	North Area	North Area
<b>SAMPLE IDENTIFICATION</b>	<b>CGW1/S-3</b>	<b>BH1</b>	<b>BH-1</b>	<b>BH2</b>	<b>SS-04A</b>	<b>SS-04B</b>	<b>TP-03</b>	<b>TP-04</b>	<b>CSE TP-2</b>	<b>CSE TP-3</b>	<b>CSE TP-1</b>
<b>SAMPLE DEPTH (FT)</b>	0-2	0-2.5	2.5-5	2.5-4	0-3	0-3			3-6	0-3	0-3
<b>COLLECTION DATE</b>	03/07/00	05/25/06	05/25/06	05/25/06	09/28/99	09/28/99	01/2000	01/2000	05/25/06	05/25/06	05/25/06
<b>ASBESTOS</b>											
chrysotile	NA	NA	NA	<1%	NA	NA	NA	NA	ND	ND	ND
<b>POLYCHLORINATED BIPHENYLS (PCBs)</b>											
Aroclor 1221	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1232	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1248	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1254	ND	0.073	< .0610	0.105	ND	1.700	DU	capacitors observed	< .0769	0.439	< .0725
Aroclor 1260	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1262	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1268	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
ND - Not Detected by lab method NA - Not Analyzed NS - Not Specified <b>Bold</b> indicates RCS2 threshold exceeded DU - Data unknown/Unavailable - data tables missing from M&E and Cyngus reports but discussed in body of report.											

**Table 1C**  
**Lead Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**

Sample Identification Number	Sample Location	Sample Depth (ft)	Collection Date	Lead mg/kg
CSS-01	South Area	0-3	3/6/2000	260
CSS-1	South Area	3-6	3/6/2000	130
CSS-2	South Area	0-3	3/6/2000	<b>400</b>
CSS-500 (duplicate CSS-2)	South Area	0-3	3/6/2000	<b>620</b>
CSS-2	South Area	3-6	3/6/2000	210
CSS-500 (duplicate CSS-2)	South Area	3-6	3/6/2000	160
CSS-3	South Area	0-3	3/6/2000	<b>2500</b>
CSS-3	South Area	3-6	3/6/2000	160
CSS-4	South Area	0-3	3/6/2000	<b>530</b>
CSS-4	South Area	3-6	3/6/2000	190
CSS-5	South Area	0-3	3/6/2000	<b>310</b>
CSS-5	South Area	3-6	3/6/2000	150
CGW-1/S-3	South Area	0-2	3/7/2000	<b>490</b>
TP-1	North Area	0-3	5/9/2000	190
TP-2	North Area	0-3	5/9/2000	140
TP-3	North Area	0-3	5/9/2000	180
TP-4	North Area	0-3	5/9/2000	61
TP-5	South Area	0-3	5/9/2000	100
TP-X (TP5 duplicate)	South Area	0-3	5/9/2000	220
TP-6	South Area	0-3	5/9/2000	<b>930</b>
TP-7	North Area	0-3	5/9/2000	63
TP-8	South Area	0-3	5/9/2000	250
BH1	North Area	0-2.5	5/28/2006	111
BH1	North Area	2.5-5	5/28/2006	287
Duplicate 1 (BH1 2.5-5)	North Area	2.5-5	5/28/2006	194
BH1	North Area	5-7.5	5/28/2006	<u>5.25</u>
BH2	South Area	0-2.5	5/28/2006	<b>313</b>
BH2	South Area	2.5-4	5/28/2006	<b>339</b>
Duplicate 2 (BH2 2.5-4)	South Area	2.5-5	5/28/2006	<b>371</b>
BH2	South Area	4-6.5	5/28/2006	<b>5780</b>
SS-04A	South Area	0-3	9/28/99	<b>3640</b>
SS-04B	South Area	0-3	9/28/99	<b>379</b>
CSE/TP-1	North Area	0-3	5/28/2006	42.1
CSE/TP-1	North Area	3-6	5/28/2006	<u>5.7</u>
CSE/TP-2	North Area	0-3	5/28/2006	77.9
CSE/TP-2	North Area	3-6	5/28/2006	<u>6.65</u>
CSE/TP-3	North Area	0-3	5/28/2006	256
CSE/TP-3	North Area	3-6	5/28/2006	25.9
BH-6A	South Adjacent Lot	2.5-6	6/12/2006	<b>550</b>
BH-6B	South Adjacent Lot	2.5-6	6/12/2006	209
BH-6C	South Adjacent Lot	2.5-6	6/12/2006	<b>1380</b>
BH-6D	South Adjacent Lot	2.5-6	6/12/2006	<b>611</b>
Upper Concentration Limit (Method 3)				<b>3000</b>
Reportable Concentration S1				300
Reportable Concentration S2				300
MCP Background - urban fill				600
- undefined in MCP				
<b>Bold</b> indicates RC threshold has been exceeded				
<u>Underline</u> indicates sample was non-detect and value is half method reporting limit.				

**Table 2**  
**EPH/PAHs/PCBs and Lead in Groundwater Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**2000 and 2006**

Destroyed  
North Area South Area South Area  
Destroyed  
South Area

SAMPLE NUMBER: COLLECTION DATE:	CSE-2 5/28/2006	CSE-1 5/28/2006	CSE-3 5/28/2006	GW-01** 9/30/99	CGW-1 3/10/2000	Reportable Concentration		Method 1 Groundwater Standards		
						GW-1 (ug/L)	GW-2 (ug/L)	GW-1 (ug/L)	GW-2 (ug/L)	GW-3 (ug/L)
<b>FULL EPH ANALYTICAL RESULTS (ug/L)</b>										
2-Methylnaphthalene	<1.20	<1	<1.14	14.00	ND	10	3000	10	10000	3000
Acenaphthene	<1.20	<1	<1.14	ND	ND	20	5000	20	NA	5000
Acenaphthylene	<1.20	<1	<1.14	ND	ND	300	3000	300	NA	3000
Anthracene	<1.20	<1	<1.14	ND	ND	600	600	2000	NA	3000
Benz[a]Anthracene	<1.20	<1	<1.14	ND	ND	1	3000	1	NA	1000
Benzo[a]Pyrene	<0.0964	<1.5	<0.0909	ND	ND	0.2	3000	0.2	NA	500
Benzo[b]Fluoranthene	<1.20	<1	<1.14	ND	ND	1	3000	1	NA	400
Benzo[g,h,i]Perylene	<1.81	<1.5	<1.70	ND	ND	300	3000	300	NA	3000
Benzo[k]Fluoranthene	<0.145	<0.120	<0.136	ND	ND	0.1	3000	1	NA	100
Chrysene	<1.20	<1	<1.14	ND	ND	2	3000	2	NA	3000
Dibenzo[a,h]Anthracene	<0.602	<0.500	<0.568	ND	ND	0.5	3000	1	20	50000
Fluoranthene	<1.20	<1	<1.14	ND	ND	200	200	90	NA	200
Fluorene	<1.20	<1	<1.14	ND	ND	300	3000	300	NA	3000
Indeno[1,2,3-c,d]Pyrene	<1.20	<0.240	<0.273	ND	ND	0.5	3000	0.5	NA	100
Naphthalene	<1.20	<1	<1.14	8.1	ND	20	6000	140	1000	20000
Phenanthrene	<1.20	<1	<1.14	ND	ND	50	50	300	NA	50
Pyrene	<1.81	<1.5	<1.7	ND	ND	200	3000	80	NA	20
C9-C18 Aliphatic Hydrocarbons1	<120	<100	<114	ND	ND	1000	1000	4000	1000	20000
C19-C36 Aliphatic Hydrocarbons1	<120	<100	<114	ND	ND	5000	20000	5000	NA	20000
C11-C22 Aromatic Hydrocarbons1,2	<120	<100	<114	ND	ND	200	30000	200	50000	30000
<b>POLYCHLORINATED BIPHENYLS</b>										
Aroclor 1016/1242	<0.375	<0.303	<0.366	ND	ND	70	50000	0.5	NA	0.3
Aroclor 1221	<0.375	<0.303	<0.366	ND	ND	5	2000	0.5	NA	0.3
Aroclor 1232	<0.375	<0.303	<0.366	ND	ND	1000	6000	0.5	NA	0.3
Aroclor 1248	<0.375	<0.303	<0.366	ND	ND	700	4000	0.5	NA	0.3
Aroclor 1254*	<b>0.871</b>	<b>0.72</b>	<b>0.83</b>	<b>2.6</b>	ND	6000	6000	0.5	NA	0.3
Aroclor 1260	<0.375	<0.303	<0.366	ND	ND	6000	6000	0.5	NA	0.3
Aroclor 1262	<0.375	<0.303	<0.366	ND	ND	20	6000	0.5	NA	0.3
Aroclor 1268	<0.375	<0.303	<0.366	ND	ND	400	1000	0.5	NA	0.3
<b>DISSOLVED LEAD</b>	<0.0150	<0.0150	<0.0150	ND	NA	1000	1000	15	NA	10

\* sample was not filtered prior to lab analysis

\*\* Pesticides detected in sample at concentrations less than the RCGW-2 standards.

\_ undefined in MCP

***Bold italics*** indicates RC threshold has been exceeded

**Bold** indicate laboratory method reporting limit exceeded

NA - Not Applicable

## Appendix A      Historic Report Excerpts

PROJECT: <b>STANDARD TIMES</b>	<b>9/27/99</b>	SHEET: <b>1 OF 1</b>	TEST PIT NO.: <b>TP-03</b>
SITE LOCATION: <b>NEW BEDFORD</b>	JOB NO.: <b>020655-0002</b>	GROUND ELEV.: <b>—</b>	TOTAL DEPTH:
	GRID LOCATION: <b>LOT 3, NEAR STRESSED VEGETATION</b>		
CONTRACTOR: <b>M/E/CITY</b>	ENG/GEO: <b>N. THUNDER</b>	BEGUN: <b>10:45</b>	
EQUIPMENT: <b>BICKHE</b>	OPERATOR: <b>CITY (FRANK)</b>	FINISHED: <b>11:00</b>	
PIT/TRENCH DIMENSIONS: <b>6 X 4 X 5 ft depth</b>	WEATHER: <b>CLEAR, 70°</b>	GROUNDWATER (DEPTH): <b>4 ft</b>	
SAMPLING METHOD: <b>None</b>	DECON. USED: <b>DRY BRUSH, SOAP + WATER SPRAY</b>	TOP OF ROCK (DEPTH): <b>—</b>	

TEST PIT EXCAVATION PROFILE:

SCALE: 1 sq = 1/2 ft<sup>2</sup>

0' NO VEGETATION / SANDY

1 ft	SANDY LOAM, SOME DEBRIS -		
2 ft	BRICK, WOOD, ROCKING		
3 ft	MEDIUM GRADED SAND - WOOD +		
4 ft	BRICK DEBRIS (WOOD FRANKS FOUND 4-5 FEET)	← GROUNDWATER @ 4 ft	
5 ft			

LOCATION OF TEST PITS: **THIS TEST PIT WAS LOCATED IN AREA OF**

SAMPLE COORDINATES: **STRESSED VEGETATION ON EASTERN BOUNDARY**  
**OF THE SITE.**





**TABLE 3-3. TEMPORARY WELL LOCATION SELECTION RATIONALE -  
STANDARD TIMES FIELD, FALL 1999 BTSA**

Lot No.	Location ID	Rationale for Location Selection
1B	GW-04	<ul style="list-style-type: none"> <li>located in the hydrogeologically-inferred downgradient direction of Mutual Oil Station</li> <li>attempts to locate further northwest failed because of shallow refusal depths encountered (2 to 3 feet)</li> </ul>
3	GW-01	<ul style="list-style-type: none"> <li>located within area of bare soil and stressed vegetation</li> <li>attempts to locate further northeast failed because of difficult terrain and shallow refusal depths</li> </ul>
7	GW-02	<ul style="list-style-type: none"> <li>located hydrogeologically-inferred downgradient direction of buried concrete structure (assumed to be 150,000-gallon buried tank)</li> </ul>
3	GW-03	<ul style="list-style-type: none"> <li>located hydrogeologically-inferred downgradient direction of Lisbon Auto Repair Shop</li> </ul>

**TABLE 3-4. GROUNDWATER ELEVATION MEASUREMENTS**

Lot No.	Location ID	Depth groundwater (ft bgs)	Relative Elevation* (feet)
1B	GW-04	6.15	7.21
3	GW-01	3.14	6.86
	GW-03	7.31	7.89
7	GW-02	5.90	7.10

\*Top of well elevation is relative to an on-site reference point  
ft bgs - feet below ground surface

**TABLE 3-1. SURFACE SOIL LOCATION SELECTION RATIONALE  
- STANDARD TIMES FIELD, FALL 1999 BTSA**

Lot No.	Location ID	Rationale for Location Selection	Physical Description of Hole/Soil Sample
1B	SS-02	<ul style="list-style-type: none"> <li>• most upgradient location for entire site (assumed groundwater flow direction)</li> <li>• possible impact area from off-site sources (Mutual Oil Station); no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1½ feet, dark loam</li> <li>• 1½ to 2 feet, sandy gravel</li> <li>• 2 to 3 feet, medium graded sand</li> </ul>
2	SS-03	<ul style="list-style-type: none"> <li>• located within estimated area of former coal bin</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to ½ feet, sandy loam</li> <li>• ½ to 1 feet, clay with gravel</li> <li>• 1 to 1½ feet, sand with coal fragments over a layer of cobbles (possible road or foundation)</li> <li>• 1½ to 2 feet, sand</li> <li>• 2 to 3 feet, dark, dense sand with clay</li> </ul>
3	SS-04A	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to ½ feet, sandy loam</li> <li>• ½ to 3 feet, dense sand with gravel</li> <li>• 3 feet, dark dense clay layer (6 inches thick)</li> <li>• 3 to 4 feet, dense sandy clay below the clay layer</li> </ul>
	SS-04B	<ul style="list-style-type: none"> <li>• located within area of stressed vegetation, bare soil, capacitor debris, and coal ash</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1 feet, sandy loam</li> <li>• 1 to 2 feet, sand</li> <li>• 2 to 2½ feet, layer of bricks</li> <li>• 2½ to 3 feet, dark, poorly graded sand and some coal ash with a sweet odor</li> <li>• cobbles and debris (brick and wood) were mixed throughout each layer</li> </ul>
4	SS-05A	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 3 feet, loam with some sand, small quantity of bricks, wetland plant roots evident</li> <li>• 3 to 4 feet, greyish, dense sand</li> </ul>
	SS-05B	<ul style="list-style-type: none"> <li>• location within area of burned vegetation and debris including automotive/boat fuel tanks, tires, and glass fragments</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to ½ feet, sandy loam</li> <li>• ½ to 3 feet, sandy clay with cobbles and some brick debris</li> <li>• 3 feet, dense sand layer</li> </ul>
5	SS-06	<ul style="list-style-type: none"> <li>• arbitrary location, placed; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1 feet, dark sandy loam</li> <li>• 1 to 3 feet, dense sand with cobbles (some greyish sand mixed in)</li> </ul>
6	SS-07	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 2 feet, fine sand with loam</li> <li>• 2 to 3 feet, sandy clay</li> <li>• 3 feet, ledge or boulder</li> </ul>
7	SS-08	<ul style="list-style-type: none"> <li>• arbitrary location, placed downgradient of suspected UST</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1½ feet, loamy sand</li> <li>• 1.5 to 3 feet, poorly graded sand (beach sand)</li> </ul>
8	SS-09	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 2 feet, sandy clay</li> <li>• 2 to 3 feet, dark, dense clay</li> </ul>
9	SS-10	<ul style="list-style-type: none"> <li>• arbitrary location, placed downgradient of auto body shop</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1 feet, loamy sand</li> <li>• 1 to 3 feet, medium graded sand, some gravel</li> </ul>

TABLE 4-1. SUMMARY OF ANALYTICAL DATA - SURFACE SOILS \*  
 BTSA INVESTIGATION - STANDARD TIMES FIELD - FALL 1999

LOT NUMBER	1B	8		9	Reportable Concentrations ** RCS-1	2	3		4		Reportable Concentrations ** RCS-2
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0		0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF		SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99		
COMMENTS			FD								
<b>PARAMETER/ANALYTE</b>											
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)</b>											
None Detected											
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)</b>											
C <sub>7</sub> -C <sub>18</sub> Aliphatics (1)					1,000,000						2,500,000
C <sub>19</sub> -C <sub>36</sub> Aliphatics (1)	3,200 U	3,100 U	3,200 U	2,900 U	2,500,000	3,500 U	3,200	3,400 U	3,300 U	3,400 U	5,000,000
C <sub>11</sub> -C <sub>22</sub> Aromatics (1,2)	4,200 U	4,200 U	4,200 U	3,900 U	200,000	4,600 U	50,000	19,000	32,000	19,000	2,000,000
	9,000 U	8,900 U	9,000 U	8,300 U		23,000	180,000	120,000	290,000	75,000	
Naphthalene	530 U	520 U	530 U	490 U	4,000	580 U	520 U	570 U	1,300	570 U	1,000,000
2-Methylnaphthalene	530 U	520 U	530 U	490 U	4,000	580 U	520 U	570 U	720	570 U	1,000,000
Acenaphthylene	530 U	520 U	530 U	490 U	100,000	580 U	520 U	570 U	1,100	570 U	1,000,000
Acenaphthene	530 U	520 U	530 U	490 U	20,000	580 U	520 U	570 U	2,000	570 U	2,500,000
Fluorene	530 U	520 U	530 U	490 U	400,000	580 U	570	570 U	2,600	570 U	2,000,000
Phenanthrene	530 U	520 U	530 U	490 U	100,000	1,500	7,800	6,800	20,000	1,500	100,000
Anthracene	530 U	520 U	530 U	490 U	1,000,000	580 U	2,100	1,600	4,000	570 U	1,000,000
Fluoranthene	530 U	520 U	530 U	490 U	1,000,000	1,600	16,000	13,000	24,000	3,000	1,000,000
Pyrene	530 U	520 U	530 U	490 U	700,000	1,500	17,000	13,000	28,000	3,900	2,000,000
Benzo(a)anthracene	530 U	520 U	530 U	490 U	700	780	8,600	6,000	12,000	2,000	1,000
Chrysene	530 U	520 U	530 U	490 U	7,000	850	7,400	5,200	12,000	2,000	10,000
Benzo(b)fluoranthene	530 U	520 U	530 U	490 U	700	580	7,700	5,700	9,300	2,100	1,000
Benzo(k)fluoranthene	530 U	520 U	530 U	490 U	7,000	770	4,600	5,300	8,700	1,800	10,000
Benzo(a)pyrene	530 U	520 U	530 U	490 U	700	770	8,200	5,800	11,000	2,200	700
Indeno(1,2,3-cd)pyrene (3)	530 U	520 U	530 U	490 U	700	820	7,500	7,000	10,000	2,500	1,000
Dibenzo(a,h)anthracene (3)	530 U	520 U	530 U	490 U	700	820	7,500	7,000	10,000	2,500	700
Benzo(g,h,i)perylene	530 U	520 U	530 U	490 U	1,000,000	580 U	5,300	5,000	7,400	2,000	2,500,000
<b>SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)</b>											
Naphthalene	360 U	350 U	340 U	18 J	4,000	140 J	450 J	510 J	1,300 J	430 J	1,000,000
2-Methylnaphthalene	360 UJ	350 UJ	340 UJ	340 UJ	4,000	49 J	440 J	250 J	480 J	3,800 UJ	1,000,000
Acenaphthylene	29 J	350 U	340 U	340 U	100,000	59 J	1,200 J	700 J	1,700 J	1,400 J	1,000,000
Acenaphthene	28 J	350 U	340 U	340 U	20,000	140 J	470 J	1,200 J	2,100 J	640 J	2,500,000
Dibenzofuran	19 J	350 U	340 U	340 U	100,000	110 J	370 J	710 J	1,600 J	410 J	1,000,000
Fluorene	27 J	350 U	340 U	340 U	400,000	140 J	1,600 J	1,400 J	2,200 J	820 J	2,000,000
Phenanthrene	360	22 J	27 J	84 J	100,000	1,100	11,000	14,000	18,000	7,000	100,000
Anthracene	83 J	350 U	340 U	25 J	1,000,000	250 J	3,300	4,200	5,600	2,200 J	1,000,000
Carbazole	42 J	350 U	340 U	340 U	-	150 J	770 J	2,000 J	2,400 J	670 J	-
Fluoranthene	650	41 J	72 J	170 J	1,000,000	1,400	14,000	21,000	24,000	12,000	1,000,000
Pyrene	530	35 J	60 J	140 J	700,000	1,100	20,000	19,000	22,000	12,000	2,000,000
Benzo(a)anthracene	290 J	23 J	37 J	91 J	700	640	8,900	10,000	14,000	6,200	1,000
Chrysene	320 J	27 J	35 J	96 J	7,000	700	8,400	9,900	14,000	6,600	10,000
Benzo(b)fluoranthene	250 J	21 J	33 J	76 J	700	580	7,700	9,100	12,000	5,300	1,000
Benzo(k)fluoranthene	340 J	25 J	33 J	92 J	7,000	620	5,000	11,000	11,000	6,100	10,000
Benzo(a)pyrene	310 J	21 J	36 J	92 J	700	650	7,800	11,000	14,000	7,100	700

TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS \*  
 BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER LOCATION NAME SAMPLE DEPTH (ft bgs) M&E SAMPLE ID DATE SAMPLED COMMENTS	1B	8		9	Reportable Concentrations ** RCS-1	2	3		4		Reportable Concentrations ** RCS-2
	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0		0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	
	SS0201STF 09/28/99	SS0901STF 09/28/99	SSK0901STF 09/28/99	SS1001STF 09/28/99		SS0301STF 09/28/99	SS0401STF 09/28/99	SS0402STF 09/28/99	SS0501STF 09/28/99	SS0502STF 09/28/99	
Indeno(1,2,3-cd)pyrene	190 J	350 U	22 J	59 J	700	370 J	4,200	7,400	7,900	4,300	700
Dibenz(a,h)anthracene	65 J	350 U	340 U	28 J	700	190 J	2,100	2,500 J	3,200 J	1,500 J	700
Benzo(g,h,i)perylene	190 J	19 J	24 J	66 J	1,000,000	400	4,700	8,300	9,100	5,300	2,500,000
<b>PESTICIDES - RAS (ug/Kg)</b>											
beta-BHC	3.9 J	1.8 UJ	1.8 UJ	1.7 UJ	10,000	1.9 UJ	R	R	2.0 UJ	2.0 UJ	100,000
Heptachlor	R	0.29 J	0.62 J	0.69 J	100	1.9 U	1.8 U	1.9 U	2.0 U	2.0 U	200
4,4'-DDE	20 J	3.4 U	3.5 U	3.3 U	2,000	3.7 U	R	82 J	R	R	2,000
Endrin	R	3.4 UJ	3.5 UJ	3.3 UJ	600	7.7 J	R	3.7 UJ	R	3.8 UJ	50
Endosulfan II	4.0 J	3.4 U	3.5 U	3.3 U	50	3.7 U	3.6 J	3.7 U	3.8 U	3.8 U	50
4,4'-DDD	3.4 U	3.4 U	3.5 U	3.3 U	2,000	R	R	3.7 U	3.8 U	73 J	3,000
Endosulfan sulfate (4)	13 J	3.4 U	3.5 U	3.3 U	50	R	R	22 J	12 J	8.0 J	50
4,4'-DDT	75	6.7 J	4.4 J	4.7 J	2000	11 J	R	300 J	R	R	2,000
Methoxychlor	40	18 UJ	18 UJ	17 UJ	30,000	53 J	18 UJ	180 J	R	R	30,000
Endrin ketone (5)	3.4 U	3.4 U	3.5 U	3.3 U	600	17 J	47 J	60 J	56 J	R	1,000
Endrin aldehyde	R	3.4 U	3.5 U	3.3 U	10,000	7.0 J	5.5 J	R	50 J	12 J	100,000
alpha-Chlordane	8.6 J	1.8 U	1.8 U	1.7 U	1,000	1.9 U	1.80 U	R	2.0 U	2.0 U	2,000
gamma-Chlordane	R	1.8 U	1.8 U	1.7 U	1,000	1.9 U	2.6 J	R	R	3.7 J	2,000
<b>PCBS - RAS (ug/kg)</b>											
Aroclor-1254	380 J	41	37	33 U	2,000	37 U	36 U	1,700 J	38 U	38 U	2,000
<b>METALS - RAS (mg/kg)</b>											
Aluminum	5,110	3,390	3,070	2,020	--	3,860	3,720	3,950	3,680	3,880	--
Antimony	0.48 J	0.49 UJ	0.47 UJ	0.46 UJ	10	0.51 UJ	21.4 J	0.54 UJ	0.49 UJ	0.52 UJ	40
Arsenic	1.3	1.7	1.6	1.0	30	14.3	5.5	14.7	7.1	6.6	30
Barium	18.3	8.1	7.1	10.4	1,000	55.1	165	125	86.8	28.9	2,500
Beryllium	0.02 U	0.04 U	0.06 U	0.04 U	1	0.12 U	0.11 U	0.59	0.11 U	0.09 U	0.8
Cadmium	0.09 U	0.09 U	0.09 U	0.08 U	30	0.09 U	1.9	0.34 U	0.09 U	0.09 U	80
Calcium	559	556	497	966	--	737	4,900	6,110	1,400	1,500	--
Chromium	4.4	7.1	6.2	3.8	1,000	4.5	9.1	5.7	9.1	8.5	2,500
Cobalt	1.5	1.8	1.5	1.2	500	2.7	3.5	3.5	3.1	2.3	5,000
Copper	4.7	7.3	5.2	6.7	1,000	16.5	47.7	57.5	32.8	28.5	10,000
Iron	5,770	6,370	5,600	3,400	--	9,730	17,400	10,700	16,600	12,400	--
Lead	30.0 J	5.4 J	5.1 J	13.4 J	300	105 J	3,640 J	379 J	151 J	99.7 J	600
Magnesium	834	1,260	1,100	858	--	929	1,290	1,880	1,280	943	--
Manganese	91.8	65.9	61.4	51.8	--	65.9	141	122	121	85.7	--
Mercury	0.06 UJ	0.06 UJ	0.05 UJ	0.05 UJ	20	0.05 UJ	0.07 UJ	0.27 J	0.41 J	0.08 UJ	60
Nickel	2.8	3.8	3.2	3.0	300	5.1	7.6	8.0	8.0	5.5	700
Potassium	253	556	442	256	--	985	324	480	433	308	--
Selenium	0.39 U	0.55 U	0.39 U	0.39 U	400	1.7 U	0.96 U	2.8	1.1 U	1.1 U	2,500
Silver	0.13 U	0.13 U	0.09 U	0.08 U	100	0.23 U	0.82	0.15 U	0.31 U	0.23 U	200
Sodium	94.0	132	98.2	117	--	255	129	305	132	114	--
Vanadium	8.6	10.1	8.5	4.9	400	9.2	11.7	14.9	22.8	11.5	2,000
Zinc	20.0	14.4	13.1	13.2	2,500	58.9	327	142	85.1	55.8	2,500

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS \*  
 BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	8		9	Reportable Concentrations **	2	3		4		Reportable Concentrations **
	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
LOCATION NAME											
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0		0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF		SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99		09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	
COMMENTS			FD		RCS-1						RCS-2
<b>INORGANICS - RAS (mg/kg)</b>											
None Detected											
<b>LAB SAMPLE ID</b>											
Volatile Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Extractable Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Semivolatile Organic Compounds	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Pesticides/PCBs	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Inorganics (Metals/Cyanide)	MALP88	MALP97	MALP98	MALP99		MALP89	MALP90	MALP91	MALP92	MALP93	

TABLE 4-2. SUMMARY OF ANALYTICAL DATA -- GROUNDWATER \*  
 BTSa INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B		3	7		9	Reportable Concentrations ****
LOCATION NAME	GW-04 ***		GW-01	GW-02 ***		GW-03	
SAMPLE DEPTH (ft bgs) **	0-10 / 3-8.5		0-7	0-10 / 3-8		1-11	
M&E SAMPLE ID	GW0201STF	GWK-02RE	FGW0401STF	FGW0801STF	GWK0801STF	GW1001STF	
DATE SAMPLED	/30&11/02/99	11/02/99	09/30/99	9/30&11/02/99	09/30/99	09/30/99	
COMMENTS		FD			FD		
PARAMETER/ANALYTE							RCGW-2
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/l)</b>							
C <sub>7</sub> -C <sub>12</sub> Aliphatics (1,2)	100 U	100 U	120	100 U		100 U	1,000
Toluene	15 U	15 U	15 U	15 U		190	6,000
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/l)</b>							
C <sub>15</sub> -C <sub>36</sub> Aliphatics (1)	50 U	48 U	41 U	150		41 U	20,000
C <sub>11</sub> -C <sub>22</sub> Aromatics (1,3)	110 U	100 U	220 J	110 U		87 U	30,000
Naphthalene	6.2 U	6.0 U	8.1 J	6.2 U		5.1 U	6,000
2-Methylnaphthalene	6.2 U	6.0 U	14 J	6.2 U		5.1 U	3,000
<b>PESTICIDES - RAS (µg/l)</b>							
alpha-BHC	0.050 U	0.050 U	0.26	0.050 U		(5)	5,000
Heptachlor	0.031 J	0.021 J	0.059 J	0.050 U		(5)	1
4,4'-DDE	0.10 U	0.10 U	0.16	0.10 U		(5)	100
4,4'-DDT	0.10 U	0.10 U	0.15 J	0.10 U		(5)	0.3
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.023 J		(5)	2
<b>PCBS - RAS (µg/l)</b>							
Aroclor-1254	1.0 U	1.0 U	2.6 J	1.0 U		(5)	0.3
<b>METALS - RAS (µg/l) (4)</b>							
Aluminum	66.7 U		98.4 U	51.4 U	46.3 U	2,530	--
Antimony	2.2 UJ		2.2 UJ	2.2 UJ	2.2 UJ	352 J	300
Arsenic	2.1 U		2.8 U	3.8 U	2.9 U	46.1	400
Barium	40.4		756	10.4 U	9.3 U	2,830	30,000
Beryllium	0.10 U		0.20 U	0.10 U	0.10 U	47.3	50
Cadmium	0.40 U		2.4	0.40 U	0.40 U	53.0	10
Calcium	56,000		508,000	88,700	86,500	494,000	--
Chromium	0.70		0.30 U	0.30 U	0.30 U	196	2,000
Cobalt	0.60 U		0.60 U	0.80 B	0.70	505	--
Copper	2.0 U		R	2.0 U	2.0 U	293	100,000
Iron	6,650		2,770	1,410	1,450	3,650	--
Lead	1.0 U		1.0 U	1.0 U	1.0 U	18.6	30
Magnesium	8,650		312,000	22,100	20,800	304,000	--
Manganese	373		550	940	878	1,030	--
Nickel	0.80 J		0.70 U	1.4 J	1.4 J	522	80
Potassium	6,360		120,000	18,100	16700	117,000	--
Selenium	1.8 U		1.8 U	1.8 U	1.8 U	9.8	80
Silver	0.40 U		0.40 UJ	0.40 U	0.40 U	58.8	7
Sodium	8,940		2,310,000	63,200	58,700	2,220,000	--
Thallium	2.0 U		2.0 U	2.3	2.0 U	50.1	400
Vanadium	0.90		0.80 UJ	0.80 U	0.80 U	503	2,000
Zinc	16.3 U		16.3 U	16.3 U	16.3 U	480	900
<b>INORGANICS - RAS (µg/l)</b>							
Cyanide	11.1 J		0.90 UJ	0.93 J	0.90 UJ	(5)	10
<b>LAB SAMPLE ID</b>							
Volatile Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Extractable Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Pesticides/PCBs	AQL49	AQL50	APG52	AQL51			
Inorganics (Metals/Cyanide)	MALQ07		MALQ02	MALQ04	MALQ06	MALQ03	

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-6
Location: Standard Times Field	Page: 6 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
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	Casing	Sampler	Bit	Groundwater Observations		
Type	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.2		Fill, Dark brown, fine to coarse sand with gravel and debris, saturated
10							
15							
20							

REMARKS: 1)

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-8
Location: Standard Times Field	Page: 8 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
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Type	Casing	Sampler	Bit	Groundwater Observations		
	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification
							Surface: Fill
0							Fill, Dark brown, fine to coarse sand with debris and gravel throughout
	0'-3'		0'-3'	36/30	0.2		
5							Fill, Dark brown, fine to coarse sand with debris and gravel throughout
	3'-6'		3'-6'	36/28	0.2		
10							
15							
20							

REMARKS: 1)

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-9
Location: Standard Times Field	Page: 9 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
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	Casing	Sampler	Bit	Groundwater Observations		
Type	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	0'-3'		0'-3'	36/30	0.4		Fill, Dark brown, fine to coarse sand with brick and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

## Appendix B      Boring Logs

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CGW-1
Location: Standard Times Field	Page: 1 of 3
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth: 12'	Length of Riser: 2'	Length of Screen: 10'	Screen I.D.: 2"	Riser I.D.: 2"
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Casing			Sampler	Bit	Groundwater Observations		
Type	Hollow Stem Auger		Split Spoon		Depth	Date	Stabilization Time
Size I.D.	4-1/4"		2"		Approx. 7'		
Hammer WT.			140				
Hammer Fall			30"				

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	S-1	3,4,4,3	0-2'	24/12	0		FILL: dark brown, loose, fine to coarse sandy fill
5							
	S-2	2,4,5,11	5'-7'	24/12	0.1		Light to medium brown, loose to medium dense, fine sand with some coarse sand
10							
	S-3	26,60,118	10'-12'	18/10	0.4		Light brown, dense, fine to medium sand with some coarse sand
15							
20							

REMARKS: 1) Refusal at 12'

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-1
Location: Standard Times Field	Page: 1 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
-------------	------------------	-------------------	--------------	-------------

Type	Casing	Sampler	Bit	Groundwater Observations		
	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-2
Location: Standard Times Field	Page: 2 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
-------------	------------------	-------------------	--------------	-------------

	Casing	Sampler	Bit	Groundwater Observations		
Type	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-3
Location: Standard Times Field	Page: 3 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
-------------	------------------	-------------------	--------------	-------------

	Casing	Sampler	Bit	Groundwater Observations		
Type	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

# CYGNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-4
Location: Standard Times Field	Page: 4 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
-------------	------------------	-------------------	--------------	-------------

	Casing	Sampler	Bit	Groundwater Observations		
Type	Hydraulic Push	Push		Depth	Date	Stabilization Time
Size I.D.	2"	2"				
Hammer WT.						
Hammer Fall						

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	0'-3'		0'-3'	36/30	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

# GNUS GROUP INCORPORATED

# BORING LOG

Project: New Bedford Brownfields	Boring No.: CSS-5
Location: Standard Times Field	Page: 5 of 10
Drilling Contractor: Soil Exploration	Date Started: 3/7/00
Inspected by: Oliver Leek	Dated Finished: 3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
-------------	------------------	-------------------	--------------	-------------

Casing	Sampler	Bit	Groundwater Observations		
			Depth	Date	Stabilization Time
Hydraulic Push	Push				
2"	2"				

Depth (ft.)	Sample ID	Blows/6"	Sample Interval	Adv./Rec.	PID (PPMV)	Strata Change	Field Classification
0							Surface: Fill
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.4		Fill, medium brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

**Common Sense Environmental, Inc.**  
**50 Theresa Street**  
**South Dartmouth, MA 02748**  
**Telephone: 508-991-3491**  
**Cell: 508-726-0902**  
**Fax: 508-992-5039**

**Visual Classification of Soils**  
**Test Pit: CSE/TP1**  
**25-May-06**  
**Thursday**  
**Page 1 of 1**  
**CSE Field Rep: Cynthia Gilchrest**

**Project name: 16 Blackmer Street, New Bedford, MA**

**Weather: Clear, warm, 70 degrees**

**Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller**      **Latitude** \_\_\_\_\_  
**Longitude** \_\_\_\_\_

Depth (ft)	Sample	Description	USCS	Remarks
3.0 feet	CSE TP-1 0-3 ft	Vegetation, sea grass and weeds FILL- - brown loose soil, rounded cobbles black coal ash, cinders, porcelain, brick fragments, leather		PID 0.0 ppm  low tide odor
6.0 feet	CSE TP-1 3-6 ft	FILL- brown soil, rounded cobbles, black coal ash, cinders, porcelain, brick fragments Sand - brown silty sand with crushed shells, rounded gravel Total depth 6 feet		PID 0.0 ppm
7.5 ft.				
10.0 ft				
12.5 ft.				

ToxiRAE Model No. PGM-30, Serial 003684

Groundwater is dark silty, low tide/organic odor

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**Visual Classification of Soils**

**Test Pit: CSE/TP2**

**25-May-06**

**Thursday**

**Page 1 of 1**

**CSE Field Rep: Cynthia Gilchrest**

**Project name: 16 Blackmer Street, New Bedford, MA**

**Weather: Clear, warm, 70 degrees**

**Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller**

**Latitude \_\_\_\_\_**

**Longitude \_\_\_\_\_**

Depth (ft)	Sample	Description	USCS	Remarks
3.0 feet	CSE TP-2 0-3 ft	Vegetation, sea grass and weeds		PID 0.2 ppm  low tide odor
		SAND - black, silty, loose FILL- - brown loose soil, rounded cobbles black coal ash, cinders, porcelain, brick fragments, leather GRAVEL - some sand and cobbles		
6.0 feet	CSE TP-2 3-6 ft	FILL- brown soil, rounded cobbles, black coal ash, porcelain, brick fragments  CLAY- gray, soft, silty, saturated SHELLS - crushed, rounded gravel Refusal - ledge at 6 feet		PID 0.0 ppm
7.5 ft.				
10.0 ft				
12.5 ft.				

ToxiRAE Model No. PGM-30, Serial 003684

Groundwater is dark silty, low tide/organic odor

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**Fax: 508-992-5039**

**Visual Classification of Soils**  
**Test Pit: CSE/TP3**  
**25-May-06**  
**Thursday**  
**Page 1 of 1**  
**CSE Field Rep: Cynthia Gilcrest**

**Project name: 16 Blackmer Street, New Bedford, MA**

**Weather: Clear, warm, 70 degrees**

**Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller**      **Latitude** \_\_\_\_\_  
**Longitude** \_\_\_\_\_

Depth (ft)	Sample	Description	USCS	Remarks
3.0 feet	CSE TP-3 0-3 ft	Vegetation, sea grass and weeds FILL- - brown loose soil, rounded cobbles black coal ash, cinders, porcelain, brick fragments, boulders		PID 0.0 ppm  low tide odor
6.0 feet	CSE TP-3 3-6 ft	FILL- brown soil, rounded cobbles, black coal ash, cinders, porcelain, brick fragments  GRAVEL - subangular and crushed shells Total depth 6 feet		PID 0.5 ppm
7.5 ft.				
10.0 ft				
12.5 ft.				

ToxiRAE Model No. PGM-30, Serial 003684

Groundwater is dark silty, low tide/organic odor

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**Visual Classification of Soils**  
**Borehole: BH1/CSE-2**  
**25-May-06**  
**Thursday**  
**Page 1 of 1**  
**CSE Field Rep: Cynthia Gilchrest**

**Project name: 16 Blackmer Street, New Bedford, MA**

**Weather: Clear, warm, 70 degrees**

**Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller**

**Latitude \_\_\_\_\_**

**Longitude \_\_\_\_\_**

Depth (ft)	Sample	Well	Blows	Description	USCS	Remarks
2.5 ft	BH1 0-.25		4,5,8 8,8	Graded soils, cobbles and large boulders, coarse sand, loose SAND - brown, silty, loose, slightly moist	SM	PID 0.0 ppm
5.0 ft	BH1 2.5-5		13,16,8 16,7	No Recovery SAND - black, silty sand, some cobbles, medium density, some coarse sand, wet	SM	PID 0.7 ppm
7.5 ft.	BH1 5-7.5		3,8,12 20,25	SAND - brown, silty sand, some cobbles, loose, some coarse sand, saturated SAND - coarse, gray, well rounded, very loose, saturated	SM GW	PID 0.3 ppm PID 0.1 ppm
10.0 ft	BH1 7.5-9		51,79 107	SAND - coarse, gray, well rounded, very loose, some cobbles, saturated Total depth 9.0 feet	GW	PID 0.1 ppm PID 0.0 ppm
12.5 ft.						

ToxiRAE Model No. PGM-30, Serial 003684

140# hammer, 30" drop, 2" split spoon, locked road boxes on wells

Two-inch well completed, 8 ft screen. Well developed 5/25/06 via bailer.

Well development data: DTW 4.08 feet, TD 8.11 feet, 4.03 foot water column, bailed 3.46 gallons/5 well vols

Groundwater is brown silty, cloudy

**Common Sense Environmental, Inc.**  
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**South Dartmouth, MA 02748**  
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**Fax: 508-992-5039**

**Visual Classification of Soils**  
**Borehole: BH2/CSE-3**  
**25-May-06**  
**Thursday**  
**Page 1 of 1**  
**CSE Field Rep: Cynthia Gilchrest**

**Project name: 16 Blackmer Street, New Bedford, MA**  
**Weather: Clear, warm, 70 degrees**  
**Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller**

**Latitude** \_\_\_\_\_  
**Longitude** \_\_\_\_\_

Depth (ft)	Sample	Well	Blows	Description	USCS	Remarks
2.5 ft	BH2 0-2.5		4,7,12 11, 55	FILL - brown, loose, fine to coarse sandy fill, brick fragments, metal, porcelain  No recovery		PID 0.0 ppm
4.0 ft	BH2 2.5-4			FILL - dark brown, loose, fine to coarse sandy fill, brick fragments, clear glass, moist		PID 0.0 ppm
6.5 ft.	BH2 4-6.5		15,13, 10 10, 13	FILL - dark brown, loose, fine to coarse sandy fill, brick fragments, metal, porcelain, saturated FILL - black, loose, fine to coarse sandy fill, coal ash, rounded cobbles, saturated		PID 0.0 ppm PID 0.0 ppm
9.0 ft	BH2 6.5-9		19, 29, 46 56, 51	FILL - black, loose, fine to coarse sandy fill, coal, rounded cobbles, saturated SAND - brown, silty sand, some cobbles, loose, some coarse sand, saturated	ML	PID 0.0 ppm PID 0.0 ppm
12.5 ft.				Total depth 9.0 feet		

ToxiRAE Model No. PGM-30, Serial 003684  
 140# hammer, 30" drop, 2" split spoon, locked road boxes on wells  
 Two-inch well completed, 8 ft screen. Well developed 5/25/06 via bailer.  
 Well development data: DTW 4.53 feet, TD 8.93 feet, 4.40 foot water column, bailed 3.6 gallons/5 well volumes  
 Groundwater is muddy, borwn, no odor

**Common Sense Environmental, Inc.**  
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**Visual Classification of Soils**  
**Borehole: BH1/CSE-2**  
**25-May-06**  
**Thursday**  
**Page 1 of 1**  
**CSE Field Rep: Cynthia Gilchrest**

**Project name: 16 Blackmer Street, New Bedford, MA**

**Weather: Clear, warm, 70 degrees**

**Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller**

**Latitude \_\_\_\_\_**

**Longitude \_\_\_\_\_**

Depth (ft)	Sample	Well	Blows	Description	USCS	Remarks
2.5 ft	BH1 0-.25		4,5,8 8,8	Graded soils, cobbles and large boulders, coarse sand, loose SAND - brown, silty, loose, slightly moist	SM	PID 0.0 ppm
5.0 ft	BH1 2.5-5		13,16,8 16,7	No Recovery SAND - black, silty sand, some cobbles, medium density, some coarse sand, wet	SM	PID 0.7 ppm
7.5 ft.	BH1 5-7.5		3,8,12 20,25	SAND - brown, silty sand, some cobbles, loose, some coarse sand, saturated SAND - coarse, gray, well rounded, very loose, saturated	SM GW	PID 0.3 ppm PID 0.1 ppm
10.0 ft	BH1 7.5-9		51,79 107	SAND - coarse, gray, well rounded, very loose, some cobbles, saturated Total depth 9.0 feet	GW	PID 0.1 ppm PID 0.0 ppm
12.5 ft.						

ToxiRAE Model No. PGM-30, Serial 003684

140# hammer, 30" drop, 2" split spoon, locked road boxes on wells

Two-inch well completed, 8 ft screen. Well developed 5/25/06 via bailer.

Well development data: DTW 4.08 feet, TD 8.11 feet, 4.03 foot water column, bailed 3.46 gallons/5 well vols

Groundwater is brown silty, cloudy

Appendix C      Soil Analytical Data Sheets



Wednesday, June 07, 2006

Cynthia Gilchrest  
Common Sense Envtl Inc  
50 Theresa Street  
South Dartmouth, MA 02748

GeoLabs, Inc.  
45 Johnson Lane  
Braintree MA 02184  
Tele: 781 848 7844  
Fax: 781 848 7811

TEL: (508) 991-3491  
FAX: (508) 992-5039

Project: MA Fisheries  
Location: 16 Blackman St, New Bedford, MA

Order No.: 0605397

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 21 sample(s) on 5/26/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Jim Chen". The signature is fluid and cursive, with a large initial "J" and "C".

Jim Chen  
Laboratory Director

**GeoLabs, Inc.**

**Date:** 07-Jun-06

**CLIENT:** Common Sense Env'tl Inc

**Project:** MA Fisheries

**Lab Order:** 0605397

**CASE NARRATIVE**

EPH Methods

Method for Ranges: MADEP EPH 04-1.1

Method for Target Analytes: 8270 GC/MS

Carbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

C11-C22 Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes

**CERTIFICATION:**

Were all QA/QC procedures REQUIRED by the EPH Method followed? YES

Were all performance/acceptance standards achieved? YES

Were any significant modifications made to the EPH method? NO

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

LAB DIRECTOR

PRINTED NAME: Jim Chen

DATE: June 7, 2006

CLIENT: Common Sense Evtl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-001

Collection Date: 5/25/2006

Client Sample ID: BH6 0-2.5

Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	611	11.4		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	11.4		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	109	11.4		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	789	11.4		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	66.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	102	40-140		%REC	1	6/5/2006
<b>METALS, TOTAL</b>						
			<b>SW6010B</b>	<b>(SW3050B)</b>		Analyst: QS
Lead	1870	96.3		mg/Kg-dry	10	6/1/2006
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_SPR)</b>		Analyst: ZYZ
Naphthalene	1.39	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
2-Methylnaphthalene	ND	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Acenaphthene	2.11	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Phenanthrene	38.3	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Acenaphthylene	1.43	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Fluorene	2.98	0.284		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Anthracene	5.45	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Fluoranthene	47.0	2.27		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Pyrene	40.9	2.27		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(a)anthracene	18.2	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Chrysene	20.0	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(b)fluoranthene	ND	1.70		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(k)fluoranthene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(a)pyrene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Dibenz(a,h)anthracene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(g,h,i)perylene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Total PAH Target Concentration	178	0		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Surr: 2,2'-difluorobiphenyl	52.0	40-140		%REC	10	6/5/2006 2:35:00 PM
Surr: 2-Fluorobiphenyl	51.2	40-140		%REC	10	6/5/2006 2:35:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level      B Analyte detected in the associated Method Blank  
 E Value above quantitation range                                      H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits                      ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

**GeoLabs, Inc.**

**Date:** 07-Jun-06

**CLIENT:** Common Sense Env'tl Inc  
**Project:** MA Fisheries

**Lab Order:** 0605397

**Lab ID:** 0605397-002

**Collection Date:** 5/25/2006

**Client Sample ID:** BH6 0-2.5

**Matrix:** AO

<b>Analyses</b>	<b>Result</b>	<b>Det. Limit</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**ASBESTOS BY PLM**

**E600/R-93/116**

**Analyst: SUB**

Asbestos	<1% Chrysotile	0		%	1	6/4/2006
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**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-003

Collection Date: 5/25/2006

Client Sample ID: BH6 2.5-5.0

Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

EPH RANGES

MADEP EPH (MADEP EPH)

Analyst: KH

Adjusted C11-C22 Aromatics	321	12.3	mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	329	12.3	mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	108	12.3	mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	387	12.3	mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	82.0	40-140	%REC	1	6/5/2006
Surr: o-Terphenyl	101	40-140	%REC	1	6/5/2006

METALS, TOTAL

SW6010B (SW3050B)

Analyst: QS

Lead	106000	10800	mg/Kg-dry	1000	6/1/2006
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EPH TARGET ANALYTES

MADEP EPH\_P (EPH\_SPR)

Analyst: ZYZ

Naphthalene	0.207	0.0617	mg/Kg-dry	1	6/5/2006 3:08:00 PM
2-Methylnaphthalene	ND	0.0617	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Acenaphthene	0.222	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Phenanthrene	14.0	0.0617	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Acenaphthylene	0.538	0.0617	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Fluorene	0.649	0.0309	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Anthracene	1.18	0.0617	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Fluoranthene	18.4	0.247	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Pyrene	17.9	0.247	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(a)anthracene	6.05	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Chrysene	7.70	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(b)fluoranthene	ND	0.185	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(k)fluoranthene	ND	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(a)pyrene	ND	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0617	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Dibenz(a,h)anthracene	ND	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(g,h,i)perylene	ND	0.123	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Total PAH Target Concentration	66.8	0	mg/Kg-dry	1	6/5/2006 3:08:00 PM
Surr: 2,2'-difluorobiphenyl	67.2	40-140	%REC	1	6/5/2006 3:08:00 PM
Surr: 2-Fluorobiphenyl	64.3	40-140	%REC	1	6/5/2006 3:08:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**GeoLabs, Inc.**

**Date:** 07-Jun-06

**CLIENT:** Common Sense Env'tl Inc  
**Project:** MA Fisheries

**Lab Order:** 0605397

**Lab ID:** 0605397-004

**Collection Date:** 5/25/2006

**Client Sample ID:** BH6 5.0-7.5

**Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>METALS, TOTAL</b>			<b>SW6010B</b>			Analyst: <b>QS</b>
Lead	8970	1060	(SW3050B)	mg/Kg-dry	100	6/1/2006

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-005

Collection Date: 5/25/2006

Client Sample ID: BH1 0-2.5

Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

EPH RANGES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: KH
Adjusted C11-C22 Aromatics	173	11.5		mg/Kg-dry	1	6/5/2006	
C09-C18 Aliphatics	ND	11.5		mg/Kg-dry	1	6/5/2006	
C19-C36 Aliphatics	20.2	11.5		mg/Kg-dry	1	6/5/2006	
Unadjusted C11-C22 Aromatics	292	11.5		mg/Kg-dry	1	6/5/2006	
Surr: 1-Chlorooctadecane	70.0	40-140		%REC	1	6/5/2006	
Surr: o-Terphenyl	75.0	40-140		%REC	1	6/5/2006	

POLYCHLORINATED BIPHENYLS	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: GP
Aroclor 1016/1242	ND	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1221	ND	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1232	ND	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1248	ND	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1254	72.9	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1260	ND	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1262	ND	57.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1268	ND	57.5		µg/Kg-dry	1	5/31/2006	
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	5/31/2006	
Surr: Decachlorobiphenyl Sig 2	118	30-150		%REC	1	5/31/2006	
Surr: Tetrachloro-m-xylene Sig 1	76.0	30-150		%REC	1	5/31/2006	
Surr: Tetrachloro-m-xylene Sig 2	94.0	30-150		%REC	1	5/31/2006	

METALS, TOTAL	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: QS
Lead	111	9.94		mg/Kg-dry	1	6/1/2006	

EPH TARGET ANALYTES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: ZYZ
Naphthalene	0.147	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
2-Methylnaphthalene	ND	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Acenaphthene	0.602	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Phenanthrene	25.8	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Acenaphthylene	1.26	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Fluorene	1.83	0.0287		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Anthracene	4.66	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Fluoranthene	33.0	0.230		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Pyrene	27.8	0.230		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Benzo(a)anthracene	12.1	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Chrysene	11.3	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Benzo(b)fluoranthene	ND	0.172		mg/Kg-dry	1	6/5/2006 3:41:00 PM	
Benzo(k)fluoranthene	ND	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM	

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

EPH TARGET ANALYTES		MADEP	EPH_P	(EPH_SPR)	Analyst: ZYZ
Benzo(a)pyrene	ND	0.115	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0575	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Dibenz(a,h)anthracene	ND	0.115	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Benzo(g,h,i)perylene	ND	0.115	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Total PAH Target Concentration	119	0	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Surr: 2,2'-difluorobiphenyl	60.4	40-140	%REC	1	6/5/2006 3:41:00 PM
Surr: 2-Fluorobiphenyl	60.2	40-140	%REC	1	6/5/2006 3:41:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-006  
 Client Sample ID: BH1 2.5-5.0

Collection Date: 5/25/2006  
 Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	200	12.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	12.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	83.4	12.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	242	12.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	76.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	96.0	40-140		%REC	1	6/5/2006
<b>POLYCHLORINATED BIPHENYLS</b>						
			<b>SW8082</b>	<b>(SW3550)</b>		Analyst: GP
Aroclor 1016/1242	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1254	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	61.0		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	122	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	126	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	78.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	84.0	30-150		%REC	1	5/31/2006
<b>METALS, TOTAL</b>						
			<b>SW6010B</b>	<b>(SW3050B)</b>		Analyst: QS
Lead	287	10.3		mg/Kg-dry	1	6/1/2006
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_SPR)</b>		Analyst: ZYZ
Naphthalene	0.239	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
2-Methylnaphthalene	ND	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Acenaphthene	0.420	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Phenanthrene	6.74	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Acenaphthylene	0.307	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Fluorene	0.505	0.0305		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Anthracene	1.30	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Fluoranthene	11.4	0.244		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Pyrene	10.1	0.244		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(a)anthracene	4.90	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Chrysene	5.11	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(b)fluoranthene	ND	0.183		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(k)fluoranthene	ND	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**CLIENT:** Common Sense Env'tl Inc  
**Project:** MA Fisheries

**Lab Order:** 0605397

EPH TARGET ANALYTES		MADEP	EPH_P	(EPH_SPR)	Analyst: ZYZ
Benzo(a)pyrene	ND	0.122	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0610	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Dibenz(a,h)anthracene	ND	0.122	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(g,h,i)perylene	ND	0.122	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Total PAH Target Concentration	41.0	0	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Surr: 2,2'-difluorobiphenyl	68.4	40-140	%REC	1	6/5/2006 4:15:00 PM
Surr: 2-Fluorobiphenyl	67.0	40-140	%REC	1	6/5/2006 4:15:00 PM

**Lab ID:** 0605397-007

**Collection Date:** 5/25/2006

**Client Sample ID:** Duplicate 1

**Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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**METALS, TOTAL**

**SW6010B (SW3050B)**

Analyst: QS

Lead	194	10.3	mg/Kg-dry	1	6/1/2006
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**Lab ID:** 0605397-008

**Collection Date:** 5/25/2006

**Client Sample ID:** BH1 5-7.5

**Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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**METALS, TOTAL**

**SW6010B (SW3050B)**

Analyst: QS

Lead	ND	10.5	mg/Kg-dry	1	6/1/2006
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**Lab ID:** 0605397-009

**Collection Date:** 5/25/2006

**Client Sample ID:** BH2 0-2.5

**Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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**METALS, TOTAL**

**SW6010B (SW3050B)**

Analyst: QS

Lead	313	9.63	mg/Kg-dry	1	6/1/2006
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**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Envtl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-010

Collection Date: 5/25/2006

Client Sample ID: BH2 2.5-4

Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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EPH RANGES		MADEP EPH		(MADEP EPH)		Analyst: KH
Adjusted C11-C22 Aromatics	86.6	13.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	13.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	32.2	13.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	117	13.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	59.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	79.0	40-140		%REC	1	6/5/2006

POLYCHLORINATED BIPHENYLS		SW8082		(SW3550)		Analyst: GP
Aroclor 1016/1242	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1254	105	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	65.8		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	114	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	74.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	82.0	30-150		%REC	1	5/31/2006

METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	339	11.2		mg/Kg-dry	1	6/1/2006

EPH TARGET ANALYTES		MADEP EPH_P		(EPH_SPR)		Analyst: ZYZ
Naphthalene	0.203	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
2-Methylnaphthalene	ND	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Acenaphthene	0.405	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Phenanthrene	5.77	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Acenaphthylene	0.213	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Fluorene	0.495	0.0329		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Anthracene	1.13	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Fluoranthene	8.43	0.263		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Pyrene	7.11	0.263		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(a)anthracene	3.47	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Chrysene	3.47	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(b)fluoranthene	ND	0.197		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(k)fluoranthene	ND	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**CLIENT:** Common Sense Env'tl Inc  
**Project:** MA Fisheries

**Lab Order:** 0605397

EPH TARGET ANALYTES		MADEP	EPH_P	(EPH_SPR)	Analyst: ZYZ
Benzo(a)pyrene	ND	0.132	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0658	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Dibenz(a,h)anthracene	ND	0.132	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(g,h,i)perylene	ND	0.132	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Total PAH Target Concentration	30.7	0	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Surr: 2,2'-difluorobiphenyl	62.8	40-140	%REC	1	6/5/2006 4:48:00 PM
Surr: 2-Fluorobiphenyl	60.8	40-140	%REC	1	6/5/2006 4:48:00 PM

**Lab ID:** 0605397-011  
**Client Sample ID:** BH2 2.5-4

**Collection Date:** 5/25/2006  
**Matrix:** AO

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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ASBESTOS BY PLM		E600/R-93/116			Analyst: SUB
Asbestos	<1% Chrysotile	0	%	1	6/4/2006

**Lab ID:** 0605397-012  
**Client Sample ID:** Duplicate 2

**Collection Date:** 5/25/2006  
**Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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METALS, TOTAL		SW6010B	(SW3050B)	Analyst: QS
Lead	371	9.82	mg/Kg-dry	1

**Qualifiers:**

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Value above quantitation range	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits	

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-013

Collection Date: 5/25/2006

Client Sample ID: BH2 4-6.5

Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	137	11.8		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	11.8		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	19.2	11.8		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	177	11.8		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	73.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	93.0	40-140		%REC	1	6/5/2006
<b>METALS, TOTAL</b>						
			<b>SW6010B</b>	<b>(SW3050B)</b>		Analyst: QS
Lead	5780	99.1		mg/Kg-dry	10	6/1/2006
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_SPR)</b>		Analyst: ZYZ
Naphthalene	0.280	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
2-Methylnaphthalene	ND	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Acenaphthene	0.689	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Phenanthrene	8.26	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Acenaphthylene	0.275	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Fluorene	0.795	0.0294		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Anthracene	1.72	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Fluoranthene	10.8	0.235		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Pyrene	8.91	0.235		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(a)anthracene	4.38	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Chrysene	4.47	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(b)fluoranthene	ND	0.176		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(k)fluoranthene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(a)pyrene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Dibenz(a,h)anthracene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(g,h,i)perylene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Total PAH Target Concentration	40.6	0		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Surr: 2,2'-difluorobiphenyl	70.0	40-140		%REC	1	6/5/2006 5:21:00 PM
Surr: 2-Fluorobiphenyl	68.6	40-140		%REC	1	6/5/2006 5:21:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-014

Collection Date: 5/25/2006

Client Sample ID: TP-2 0-3

Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	668	15.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	15.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	ND	15.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	902	15.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	48.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	79.0	40-140		%REC	1	6/5/2006
<b>METALS, TOTAL</b>						
			<b>SW6010B</b>	<b>(SW3050B)</b>		Analyst: QS
Lead	77.9	13.1		mg/Kg-dry	1	6/1/2006
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_SPR)</b>		Analyst: ZYZ
Naphthalene	ND	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
2-Methylnaphthalene	ND	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Acenaphthene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Phenanthrene	36.4	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Acenaphthylene	1.39	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Fluorene	1.32	0.0379		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Anthracene	7.84	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Fluoranthene	64.7	3.03		mg/Kg-dry	10	6/6/2006 4:24:00 PM
Pyrene	59.5	0.303		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(a)anthracene	29.4	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Chrysene	26.0	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(b)fluoranthene	ND	0.227		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(k)fluoranthene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(a)pyrene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Dibenz(a,h)anthracene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(g,h,i)perylene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Total PAH Target Concentration	235	0		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Surr: 2,2'-difluorobiphenyl	54.0	40-140		%REC	1	6/6/2006 4:24:00 PM
Surr: 2-Fluorobiphenyl	52.6	40-140		%REC	1	6/6/2006 4:24:00 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-015

Collection Date: 5/25/2006

Client Sample ID: TP-2 3-6

Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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EPH RANGES		MADEP EPH (MADEP EPH)			Analyst: KH
Adjusted C11-C22 Aromatics	73.3	15.4		mg/Kg-dry	1 6/5/2006
C09-C18 Aliphatics	ND	15.4		mg/Kg-dry	1 6/5/2006
C19-C36 Aliphatics	54.7	15.4		mg/Kg-dry	1 6/5/2006
Unadjusted C11-C22 Aromatics	84.3	15.4		mg/Kg-dry	1 6/5/2006
Surr: 1-Chlorooctadecane	72.0	40-140		%REC	1 6/5/2006
Surr: o-Terphenyl	79.0	40-140		%REC	1 6/5/2006

POLYCHLORINATED BIPHENYLS		SW8082 (SW3550)			Analyst: GP
Aroclor 1016/1242	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1221	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1232	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1248	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1254	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1260	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1262	ND	76.9		µg/Kg-dry	1 5/31/2006
Aroclor 1268	ND	76.9		µg/Kg-dry	1 5/31/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1 5/31/2006
Surr: Decachlorobiphenyl Sig 2	116	30-150		%REC	1 5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	94.0	30-150		%REC	1 5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	92.0	30-150		%REC	1 5/31/2006

METALS, TOTAL		SW6010B (SW3050B)			Analyst: QS
Lead	ND	13.2		mg/Kg-dry	1 6/1/2006

EPH TARGET ANALYTES		MADEP EPH_P (EPH_SPR)			Analyst: ZYZ
Naphthalene	ND	0.0769		mg/Kg-dry	1 6/6/2006 4:58:00 PM
2-Methylnaphthalene	ND	0.0769		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Acenaphthene	ND	0.154		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Phenanthrene	1.50	0.0769		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Acenaphthylene	0.246	0.0769		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Fluorene	ND	0.0385		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Anthracene	0.317	0.0769		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Fluoranthene	3.17	0.308		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Pyrene	2.95	0.308		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Benzo(a)anthracene	1.31	0.154		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Chrysene	1.46	0.154		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Benzo(b)fluoranthene	ND	0.231		mg/Kg-dry	1 6/6/2006 4:58:00 PM
Benzo(k)fluoranthene	ND	0.154		mg/Kg-dry	1 6/6/2006 4:58:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

**CLIENT:** Common Sense Env'tl Inc  
**Project:** MA Fisheries

**Lab Order:** 0605397

<b>EPH TARGET ANALYTES</b>		<b>MADEP EPH_P</b>	<b>(EPH_SPR)</b>		<b>Analyst: ZYZ</b>
Benzo(a)pyrene	ND	0.154	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0769	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Dibenz(a,h)anthracene	ND	0.154	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Benzo(g,h,i)perylene	ND	0.154	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Total PAH Target Concentration	11.0	0	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Surr: 2,2'-difluorobiphenyl	69.3	40-140	%REC	1	6/6/2006 4:58:00 PM
Surr: 2-Fluorobiphenyl	66.5	40-140	%REC	1	6/6/2006 4:58:00 PM

<b>ASBESTOS BY PLM</b>		<b>E600/R-93/116</b>			<b>Analyst: SUB</b>
Asbestos	None Detected	0	%-dry	1	6/4/2006

<b>Qualifiers:</b>	<ul style="list-style-type: none"> <li>* Value exceeds Maximum Contaminant Level</li> <li>E Value above quantitation range</li> <li>J Analyte detected below quantitation limits</li> <li>S Spike Recovery outside accepted recovery limits</li> </ul>	<ul style="list-style-type: none"> <li>B Analyte detected in the associated Method Blank</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> </ul>
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CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-016

Collection Date: 5/25/2006

Client Sample ID: TP-3 0-3

Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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EPH RANGES		MADEP EPH		(MADEP EPH)		Analyst: KH
Adjusted C11-C22 Aromatics	265	12.0		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	12.0		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	12.7	12.0		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	337	12.0		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	71.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	101	40-140		%REC	1	6/5/2006

POLYCHLORINATED BIPHENYLS		SW8082		(SW3550)		Analyst: GP
Aroclor 1016/1242	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1254	439	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	60.2		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	128	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	120	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	76.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	86.0	30-150		%REC	1	5/31/2006

METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	256	10.5		mg/Kg-dry	1	6/1/2006

EPH TARGET ANALYTES		MADEP EPH_P		(EPH_SPR)		Analyst: ZYZ
Naphthalene	0.210	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
2-Methylnaphthalene	ND	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Acenaphthene	0.301	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Phenanthrene	9.35	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Acenaphthylene	0.619	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Fluorene	0.535	0.0301		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Anthracene	1.60	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Fluoranthene	20.7	0.241		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Pyrene	18.3	0.241		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(a)anthracene	9.85	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Chrysene	9.87	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(b)fluoranthene	ND	0.181		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(k)fluoranthene	ND	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

EPH TARGET ANALYTES		MADEP EPH_P	(EPH_SPR)		Analyst: ZYZ
Benzo(a)pyrene	ND	0.120	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0602	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Dibenz(a,h)anthracene	ND	0.120	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(g,h,i)perylene	ND	0.120	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Total PAH Target Concentration	71.3	0	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Surr: 2,2'-difluorobiphenyl	63.5	40-140	%REC	1	6/6/2006 5:31:00 PM
Surr: 2-Fluorobiphenyl	61.2	40-140	%REC	1	6/6/2006 5:31:00 PM

ASBESTOS BY PLM		E600/R-93/116			Analyst: SUB
Asbestos	None Detected	0	%-dry	1	6/4/2006

Qualifiers: \* Value exceeds Maximum Contaminant Level      B Analyte detected in the associated Method Blank  
 E Value above quantitation range      H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits      ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-017  
 Client Sample ID: Duplicate 3

Collection Date: 5/25/2006  
 Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

EPH RANGES	Result	Det. Limit	Qual	Units	DF	Date Analyzed
Adjusted C11-C22 Aromatics	486	12.3		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	12.3		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	44.1	12.3		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	613	12.3		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	41.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	82.0	40-140		%REC	1	6/5/2006

EPH TARGET ANALYTES	Result	Det. Limit	Qual	Units	DF	Date Analyzed
Naphthalene	0.185	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
2-Methylnaphthalene	ND	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Acenaphthene	0.827	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Phenanthrene	21.5	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Acenaphthylene	0.731	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Fluorene	1.41	0.0309		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Anthracene	3.70	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Fluoranthene	33.6	0.247		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Pyrene	33.3	0.247		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(a)anthracene	15.7	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Chrysene	16.4	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(b)fluoranthene	ND	0.185		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(k)fluoranthene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(a)pyrene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Dibenz(a,h)anthracene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(g,h,i)perylene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Total PAH Target Concentration	127	0		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Surr: 2,2'-difluorobiphenyl	52.6	40-140		%REC	1	6/6/2006 6:04:00 PM
Surr: 2-Fluorobiphenyl	50.9	40-140		%REC	1	6/6/2006 6:04:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-018

Collection Date: 5/25/2006

Client Sample ID: TP-3 3-6

Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

EPH RANGES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: KH
Adjusted C11-C22 Aromatics	ND	13.3		mg/Kg-dry	1	6/5/2006	
C09-C18 Aliphatics	ND	13.3		mg/Kg-dry	1	6/5/2006	
C19-C36 Aliphatics	ND	13.3		mg/Kg-dry	1	6/5/2006	
Unadjusted C11-C22 Aromatics	ND	13.3		mg/Kg-dry	1	6/5/2006	
Surr: 1-Chlorooctadecane	63.0	40-140		%REC	1	6/5/2006	
Surr: o-Terphenyl	101	40-140		%REC	1	6/5/2006	

METALS, TOTAL	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: QS
Lead	25.9	11.2		mg/Kg-dry	1	6/1/2006	

EPH TARGET ANALYTES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: ZYZ
Naphthalene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
2-Methylnaphthalene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Acenaphthene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Phenanthrene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Acenaphthylene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Fluorene	ND	0.0333		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Anthracene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Fluoranthene	ND	0.267		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Pyrene	ND	0.267		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Benzo(a)anthracene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Chrysene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Benzo(b)fluoranthene	ND	0.200		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Benzo(k)fluoranthene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Benzo(a)pyrene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Dibenz(a,h)anthracene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Benzo(g,h,i)perylene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Total PAH Target Concentration	ND	0		mg/Kg-dry	1	6/6/2006 6:37:00 PM	
Surr: 2,2'-difluorobiphenyl	61.6	40-140		%REC	1	6/6/2006 6:37:00 PM	
Surr: 2-Fluorobiphenyl	61.6	40-140		%REC	1	6/6/2006 6:37:00 PM	

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-019

Collection Date: 5/25/2006

Client Sample ID: TP-1 0-3

Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

EPH RANGES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: KH
Adjusted C11-C22 Aromatics	12.6	14.5		mg/Kg-dry	1	6/5/2006	
C09-C18 Aliphatics	ND	14.5		mg/Kg-dry	1	6/5/2006	
C19-C36 Aliphatics	ND	14.5		mg/Kg-dry	1	6/5/2006	
Unadjusted C11-C22 Aromatics	ND	14.5		mg/Kg-dry	1	6/5/2006	
Surr: 1-Chlorooctadecane	63.0	40-140		%REC	1	6/5/2006	
Surr: o-Terphenyl	99.0	40-140		%REC	1	6/5/2006	

POLYCHLORINATED BIPHENYLS	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: GP
Aroclor 1016/1242	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1221	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1232	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1248	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1254	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1260	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1262	ND	72.5		µg/Kg-dry	1	5/31/2006	
Aroclor 1268	ND	72.5		µg/Kg-dry	1	5/31/2006	
Surr: Decachlorobiphenyl Sig 1	70.0	30-150		%REC	1	5/31/2006	
Surr: Decachlorobiphenyl Sig 2	76.0	30-150		%REC	1	5/31/2006	
Surr: Tetrachloro-m-xylene Sig 1	72.0	30-150		%REC	1	5/31/2006	
Surr: Tetrachloro-m-xylene Sig 2	74.0	30-150		%REC	1	5/31/2006	

METALS, TOTAL	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: QS
Lead	42.1	12.0		mg/Kg-dry	1	6/1/2006	

EPH TARGET ANALYTES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: ZYZ
Naphthalene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
2-Methylnaphthalene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Acenaphthene	ND	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Phenanthrene	0.380	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Acenaphthylene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Fluorene	ND	0.0362		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Anthracene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Fluoranthene	0.357	0.290		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Pyrene	0.304	0.290		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Benzo(a)anthracene	0.186	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Chrysene	0.275	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Benzo(b)fluoranthene	ND	0.217		mg/Kg-dry	1	6/6/2006 7:10:00 PM	
Benzo(k)fluoranthene	ND	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM	

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

EPH TARGET ANALYTES		MADEP EPH_P (EPH_SPR)			Analyst: ZYZ
Benzo(a)pyrene	ND	0.145	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0725	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Dibenz(a,h)anthracene	ND	0.145	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Benzo(g,h,i)perylene	ND	0.145	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Total PAH Target Concentration	1.50	0	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Surr: 2,2'-difluorobiphenyl	71.3	40-140	%REC	1	6/6/2006 7:10:00 PM
Surr: 2-Fluorobiphenyl	68.6	40-140	%REC	1	6/6/2006 7:10:00 PM

ASBESTOS BY PLM		E600/R-93/116			Analyst: SUB
Asbestos	None Detected	0	%-dry	1	6/4/2006

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-020  
 Client Sample ID: TP-1 3-6

Collection Date: 5/25/2006  
 Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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EPH RANGES		MADEP EPH (MADEP EPH)			Analyst: KH
Adjusted C11-C22 Aromatics	ND	13.2		mg/Kg-dry	1 6/5/2006
C09-C18 Aliphatics	ND	13.2		mg/Kg-dry	1 6/5/2006
C19-C36 Aliphatics	ND	13.2		mg/Kg-dry	1 6/5/2006
Unadjusted C11-C22 Aromatics	ND	13.2		mg/Kg-dry	1 6/5/2006
Surr: 1-Chlorooctadecane	55.0	40-140		%REC	1 6/5/2006
Surr: o-Terphenyl	96.0	40-140		%REC	1 6/5/2006

METALS, TOTAL		SW6010B (SW3050B)			Analyst: QS
Lead	ND	11.4		mg/Kg-dry	1 6/1/2006

EPH TARGET ANALYTES		MADEP EPH_P (EPH_SPR)			Analyst: ZYZ
Naphthalene	ND	0.0658		mg/Kg-dry	1 6/6/2006 7:43:00 PM
2-Methylnaphthalene	ND	0.0658		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Acenaphthene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Phenanthrene	ND	0.0658		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Acenaphthylene	ND	0.0658		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Fluorene	ND	0.0329		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Anthracene	ND	0.0658		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Fluoranthene	ND	0.263		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Pyrene	ND	0.263		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Benzo(a)anthracene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Chrysene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Benzo(b)fluoranthene	ND	0.197		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Benzo(k)fluoranthene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Benzo(a)pyrene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0658		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Dibenz(a,h)anthracene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Benzo(g,h,i)perylene	ND	0.132		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Total PAH Target Concentration	ND	0		mg/Kg-dry	1 6/6/2006 7:43:00 PM
Surr: 2,2'-difluorobiphenyl	65.8	40-140		%REC	1 6/6/2006 7:43:00 PM
Surr: 2-Fluorobiphenyl	63.6	40-140		%REC	1 6/6/2006 7:43:00 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-021

Collection Date: 5/25/2006

Client Sample ID: Duplicate 4

Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

EPH RANGES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: KH
Adjusted C11-C22 Aromatics	ND	13.0		mg/Kg-dry	1	6/5/2006	
C09-C18 Aliphatics	ND	13.0		mg/Kg-dry	1	6/5/2006	
C19-C36 Aliphatics	ND	13.0		mg/Kg-dry	1	6/5/2006	
Unadjusted C11-C22 Aromatics	ND	13.0		mg/Kg-dry	1	6/5/2006	
Surr: 1-Chlorooctadecane	67.0	40-140		%REC	1	6/5/2006	
Surr: o-Terphenyl	85.0	40-140		%REC	1	6/5/2006	

EPH TARGET ANALYTES	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst: ZYZ
Naphthalene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
2-Methylnaphthalene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Acenaphthene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Phenanthrene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Acenaphthylene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Fluorene	ND	0.0325		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Anthracene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Fluoranthene	ND	0.260		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Pyrene	ND	0.260		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Benzo(a)anthracene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Chrysene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Benzo(b)fluoranthene	ND	0.195		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Benzo(k)fluoranthene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Benzo(a)pyrene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Indeno(1,2,3-cd)pyrene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Dibenz(a,h)anthracene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Benzo(g,h,i)perylene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Total PAH Target Concentration	ND	0		mg/Kg-dry	1	6/6/2006 2:10:00 PM	
Surr: 2,2'-difluorobiphenyl	68.0	40-140		%REC	1	6/6/2006 2:10:00 PM	
Surr: 2-Fluorobiphenyl	65.4	40-140		%REC	1	6/6/2006 2:10:00 PM	

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

# CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0605397 (02)

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

**GeoLabs, Inc.**  
 Environmental Laboratories  
 45 Johnson Lane  
 Braintree, MA 02184  
 Office: 781-848-7844  
 Fax: 781-848-7811

**Turnaround Time**  
 RUSH: 24-48hrs  STANDARD: 5 Days   
 72hrs

RUSH APPROVED BY: X

Page 1 of 3  
 SPECIAL INSTRUCTIONS

*ACS-I*

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS  LAB  HOMEOWNER  NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X *Common Sense Env.*  
 Address: X *50 Thruway, SNO P.O. BOXES*  
*South Duxbury, MA 01948*  
 Phone: X *508-991-3491*  
 Fax: *508-992-5039*  
 Contact: X *Cynthia Colecrest*  
 E-mail: *cseute@empire.net*

Project Number: X *MA Fisheries*  
 Project Location: X *16 Blackman St.*  
*New Bedford, MA*  
 Purchase Order #:  
 Collected By: X *Cynthia Colecrest*

CHANGES REQUESTED? Y N  
 BY DATE  
 Received on ice?

ANALYSES REQUESTED

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER				GEOLABS SAMPLE NUMBER	Total Lead	EPH/PAHs	PCBs	ACM	TEMPERATURE	LAB PH
	DATE	TIME	SAMPLED		TYPE	QUANT	MATRIX	COMP							
	5/25/06		CSE	BH6 0-2.5	A	I	S		X	-	05397-001	X	X		
				BH6 0-2.5	A	I	S		X	-	05397-002			X	
				BH6 2.5-5.0	A	I	S		X	-	05397-003	X	X		
				BH6 5.0-7.5	A	I	S		X	-	05397-004	X			
				BH1 0-2.5	A	I	S		X	-	05397-005	X	X	X	
				BH1 2.5-5.0	A	I	S		X	-	05397-006	X	X	X	
				Duplicate I	A	I	S		X	-	05397-007	X			
				BH1 5-7.5	A	I	S		X	-	05397-008	X			

Verbal results given to \_\_\_\_\_ by (date/initial)

**MATRIX CODES:**  
 GW = Ground Water  
 WW = Wastewater  
 DW = Drinking Water  
 SL = Sludge  
 S = Soil A = Air  
 O = Oil OT = Other

**CONTAINER CODES:**  
 A = Amber B = Bag  
 G = Glass P = Plastic  
 S = Summa Canister  
 O = Other V = VOA

Terms: Payment due within 30 days unless other arrangements are made.  
 Past due balances subject to interest and collection costs.

**PRESERVATIVE CODES:**  
 1 = HCl 5 = NaOH  
 2 = HNO<sub>3</sub> 6 = MeOH  
 3 = H<sub>2</sub>SO<sub>4</sub> 7 = ICE  
 4 = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Relinquished By: *Cynthia Colecrest* Date/Time: *5/25/06*  
 Relinquished By: *Janice Sabell*  
 Relinquished By: *Ken McKenna* Date/Time: *5/26/06 7:50*

Received By: *[Signature]* Date/Time: *5/26/06*  
 Received By: *[Signature]*  
 Received By GeoLabs: *1350*  
*C. Johnson* 5/26/06

# CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0605397 <sup>DTD</sup>

<b>CHECKED ITEMS MUST BE FILLED IN</b>	<b>24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR</b>		
<b>GeoLabs, Inc.</b> Environmental Laboratories 45 Johnson Lane Braintree, MA 02184 Office: 781-848-7844 Fax: 781-848-7811	<b>Turnaround Time</b>	Page <u>2</u> of <u>3</u>	
	RUSH: 24-48hrs <input type="checkbox"/> STANDARD: 72hrs <input type="checkbox"/> 5 Days <input checked="" type="checkbox"/>	<b>SPECIAL INSTRUCTIONS</b>	
	RUSH APPROVED BY: <u>X</u>	<i>RCS-1</i>	

**Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION**

TYPE OF CLIENT: BUS <input checked="" type="checkbox"/> LAB <input type="checkbox"/> HOMEOWNER <input type="checkbox"/>		<b>NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES</b>	
Client: <u>X Common Sense Env.</u>	Project Number: <u>X MA Kisherres</u>	CHANGES REQUESTED?	Y N
Address: <u>X 50 Thru St NO P.O. BOXES</u> <u>S. Darnmouth, MA 02748</u>	Project Location: <u>X 14 Blackma St.</u> <u>New Bedford, MA</u>	BY	DATE
Phone: <u>X 508-991-3491</u>	Purchase Order #:	Received on ice? <input type="checkbox"/>	
Fax: <u>508-992-5039</u>	Collected By: <u>X Cynthia G.</u>	<b>ANALYSES REQUESTED</b>	
Contact: <u>X Cynthia G.</u>			
E-mail: <u>Csense@empire.net</u>			

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	Total Lead	Pb/Bs	EPH/PAN#	ACM	TEMPERATURE	LAB PH
	DATE	TIME	SAMPLED		TYPE	QUANT	MATRIX	COMP	GRAB							
↓	5/25/06		CSC	BH2 0-2.5	A	1	S		X	-	05397-009	X				
				BH2 2.5-4	A	1	S		X	-	05397-010	X	X	X		
				BH2 2.5-4	A	1	S		X	-	05397-011			X		
				Duplicate 2	A	1	S		X	-	05397-012	X				
				BH2 4-6.5	A	1	S		X	-	05397-013	X		X		
				TP-2 0-3	A	1	S		X	-	05397-014	X		X		
				TP-2 3-6	A	1	S		X	-	05397-015	X	X	X	X	
				TP-3 0-3	A	1	S		X	-	05397-016	X	X	X	X	

Verbal results given to \_\_\_\_\_ by (date/initial)

<b>MATRIX CODES:</b> GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	<b>CONTAINER CODES:</b> A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	<b>PRESERVATIVE CODES:</b> 1 = HCl 5 = NaOH 2 = HNO <sub>3</sub> 6 = MeOH 3 = H <sub>2</sub> SO <sub>4</sub> 7 = ICE 4 = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Relinquished By: <u>Date/Time</u> PRINT: <u>Cynthia Celest</u> Relinquished By: <u>[Signature]</u> Relinquished By: <u>5/26/06</u> <u>[Signature]</u> 1:50	Received By: <u>Date/Time:</u> <u>[Signature]</u> 12:15 Received By: Received By GeoLabs: <u>1:35</u> <u>[Signature]</u> 5/26/06
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.				

# CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0605397 02

CHECKED ITEMS MUST BE FILLED IN	24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR	
<b>GeoLabs, Inc.</b> Environmental Laboratories 45 Johnson Lane Braintree, MA 02184 Office: 781-848-7844 Fax: 781-848-7811	<b>Turnaround Time</b> RUSH: 24-48hrs <input type="checkbox"/> STANDARD: 5 Days <input checked="" type="checkbox"/> 72hrs <input type="checkbox"/>	Page <u>3</u> of <u>3</u>
	RUSH APPROVED BY: X	SPECIAL INSTRUCTIONS
		RCS-7

**Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION**

TYPE OF CLIENT: BUS  LAB  HOMEOWNER  **NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES**

Client: X <i>Common Sense Env.</i> Address: X <i>50 Thurston St</i> NO P.O. BOXES <i>S. Duxbury, MA 02748</i> Phone: X <i>508-991-3491</i> Fax: <i>508-992-5039</i> Contact: X <i>Cynthia R. Chrost</i> E-mail: <i>c.sense@empire.net</i>	Project Number: X <i>MA Fisheries</i> Project Location: X <i>16 Blackman St.</i> <i>New Bedford, MA</i> Purchase Order #: _____ Collected By: <i>X Cynthia R.</i>	CHANGES REQUESTED? Y N BY _____ DATE _____ Received on ice? <input type="checkbox"/>
---	---	--

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER			G	P	PRES	GEOLABS SAMPLE NUMBER	ANALYSES REQUESTED										TEMPERATURE	LAB PH				
	D	T	S		T	Q	M					C	G	P	SPH/PAH	Total lead	ACM	PCB <sub>4</sub>									
	s/zs/ob		CSE	Duplicate 3	A	I	S	X	-		05397-017	X															
				TP3 3-6	A	I	S	X	-		05397-018	X	X														
				TP1 0-3	A	I	S	X	-		05397-019	X	X	X	X												
				TP7 3-6	A	I	S	X	-		05397-020	X	X	<del>XXXX</del>													
				Duplicate 4	A	I	S	X	-		05397-021	X	X														
<i>C. Chrost s/zs/ob</i>																											

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO <sub>3</sub> 6 = MeOH 3 = H <sub>2</sub> SO <sub>4</sub> 7 = ICE 4 = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Relinquished By: <i>5/25/06</i> PRINT <i>Cynthia R. Chrost</i> Relinquished By: <i>Cynthia R. Chrost</i> Relinquished By: <i>5/26/06</i> <i>5:15</i>	Received By: <i>5/25/06</i> <i>[Signature]</i> Received By: Received By GeoLabs: <i>1350</i> <i>5/24/06</i>
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.				



Thursday, June 08, 2006

Cynthia Gilcrest  
Common Sense Env'tl Inc  
50 Theresa Street  
South Dartmouth, MA 02748

GeoLabs, Inc.  
45 Johnson Lane  
Braintree MA 02184  
Tele: 781 848 7844  
Fax: 781 848 7811

TEL: (508) 991-3491

FAX: (508) 992-5039

Project: MA Fisheries

Location:

Order No.: 0606073

Dear Cynthia Gilcrest:

GeoLabs, Inc. received 1 sample(s) on 6/7/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Jim Chen  
Laboratory Director

CLIENT: Common Sense Env'tl Inc  
 Project: MA Fisheries

Lab Order: 0606073

Lab ID: 0606073-001  
 Client Sample ID: BH6 2.5-5.0

Collection Date: 5/25/2006  
 Matrix: SOIL

Analyses Result Det. Limit Qual Units DF Date Analyzed

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>POLYCHLORINATED BIPHENYLS</b>			<b>SW8082</b>	<b>(SW3550)</b>		Analyst: GP
Aroclor 1016/1242	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1221	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1232	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1248	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1254	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1260	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1262	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1268	ND	62.5		µg/Kg-dry	1	6/7/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	6/7/2006
Surr: Decachlorobiphenyl Sig 2	90.0	30-150		%REC	1	6/7/2006
Surr: Tetrachloro-m-xylene Sig 1	72.0	30-150		%REC	1	6/7/2006
Surr: Tetrachloro-m-xylene Sig 2	68.0	30-150		%REC	1	6/7/2006

Qualifiers: \* Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank  
 E Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



Common Sense Environmental, Inc.  
50 Theresa Street  
South Dartmouth, MA 02748

Attention: Cynthia Gilcrest  
STL Job #: 760-605-0113  
Billing Ref.: Project# BH2, TP-1, BH6

June 5, 2006

Dear Cynthia:

Please find enclosed five (5) PLM digital photomicrographs, five (5) SEM digital photomicrographs and five (5) EDX spectra of the black material detected in the samples submitted for coal/coal flyash identification by SEM/EDX and PLM.

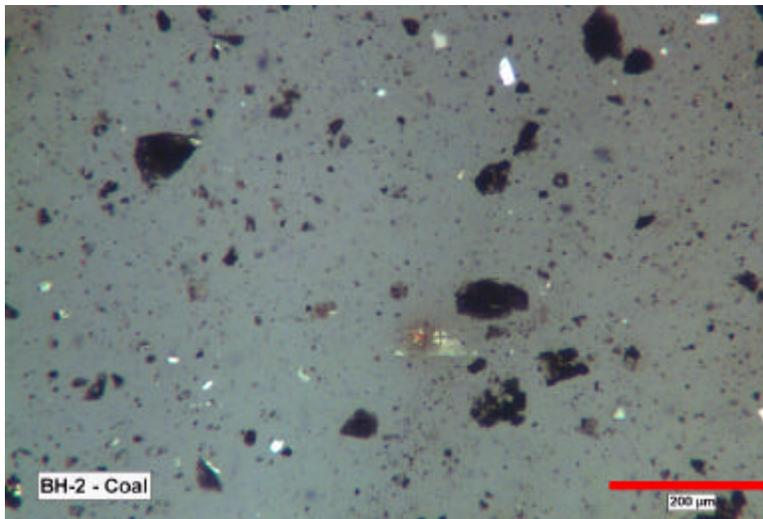
**METHODS:**

A portion of the samples were dried in a drying oven to remove moisture and then examined under a stereomicroscope. Several black grains, consistent in appearance to coal or coal flyash, were picked out of the dried soil samples. The black grains were ground into a powder with a mortar and pestle and mounted in index of refraction liquid ( $n=1.605$ ) on a glass slide for the Polarized Light Microscope (PLM) examination. Another portion of these black grains were mounted on double-sided tape and coated with evaporated graphite, which improves image quality. The samples were then examined under a Scanning Electron Microscope (SEM). An Energy Dispersive X-Ray (EDX) analysis was conducted during the SEM examination of these grains to determine their elemental composition. Photomicrographs were taken of the samples both by PLM and by SEM to document the morphology of the grains.

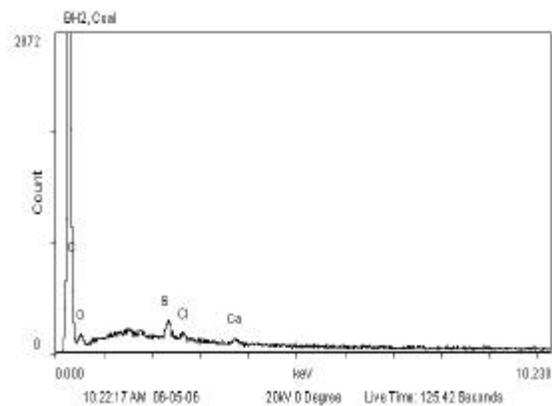
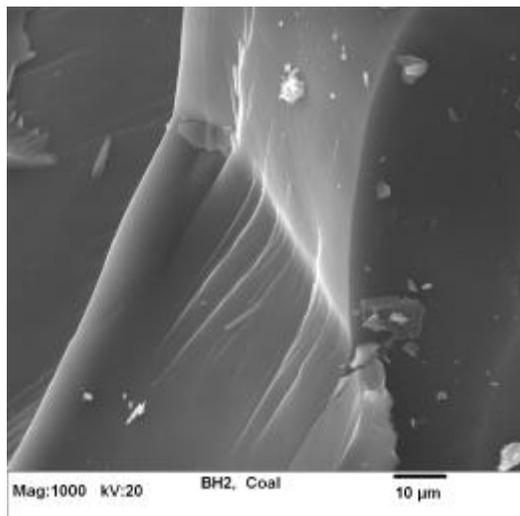
**FINDINGS:**

**BH2 4-6.5':**

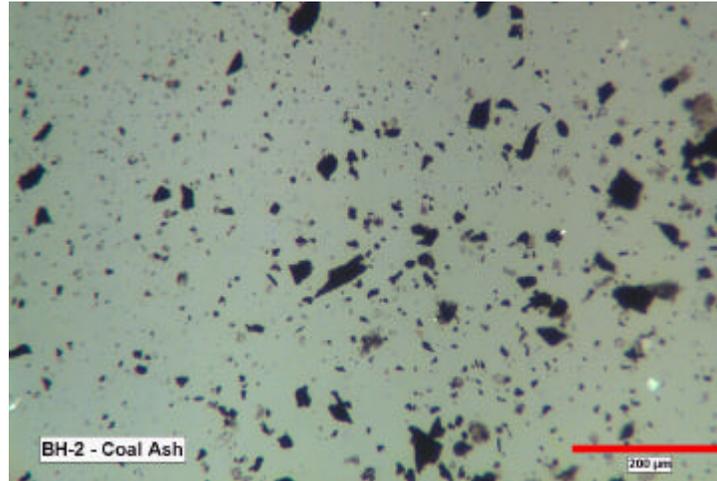
Please refer to the PLM and SEM photomicrographs as well as the EDX spectra. Two types of suspect particles were found in the first sample. The first particle type showed irregularly shaped opaque grains with an amber to black color and smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination, and showed mineral-like fragments with both rounded and sharp edges.



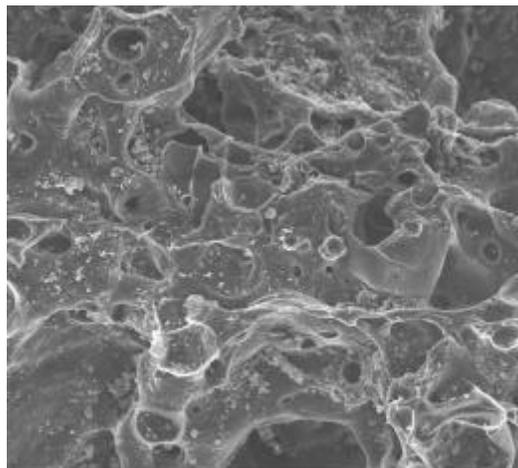
SEM examination found the suspect particles to have smooth surfaces marked by sharp, curved glass-like edges with evidence of conchoidal fracture patterns along the surface of the sample. EDX examination of the elemental composition of these particles showed a very strong carbon peak, with a moderate to low concentration of sulfur, and minor levels of oxygen, chlorine and calcium. The morphology and chemical composition of these particles matches bituminous coal.



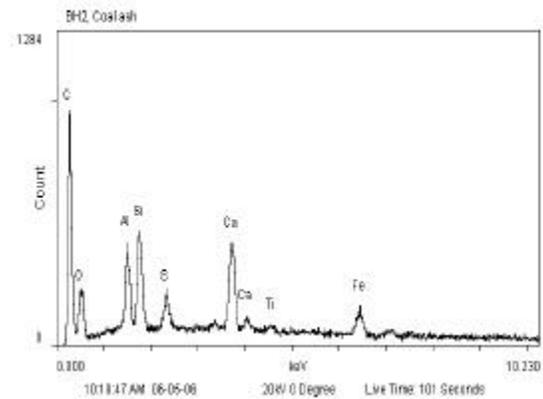
The second particle type showed irregular curved opaque, gray-black grains covered with craters. The particles did not dissolve in the index of refraction oil under PLM examination.



SEM analysis of the grains found them to have a rough surface texture heavily marked by air pits and craters. The EDX examination demonstrated a strong peak height of carbon, moderate concentrations of aluminum, silicon and calcium, with lower peaks of oxygen, sulfur, titanium and iron. The appearance and chemical composition of this sample is consistent for coal ash.

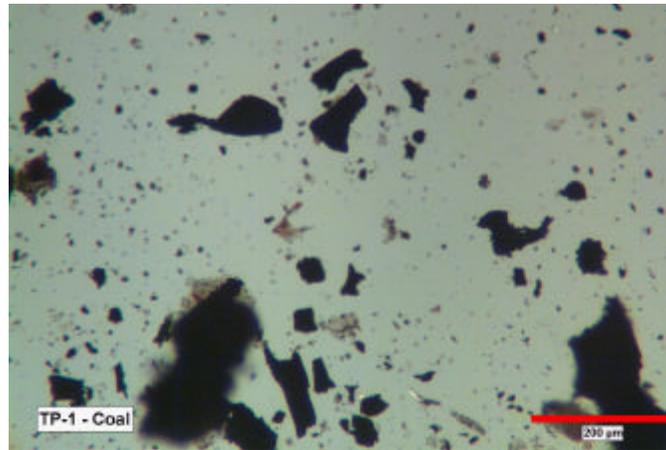


Mag:100 kV:20 BH2, Coal ash 100 µm

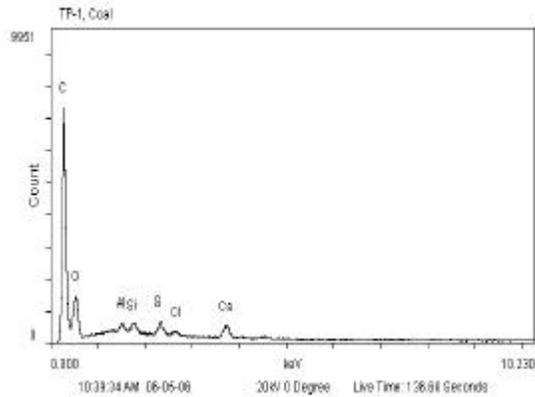
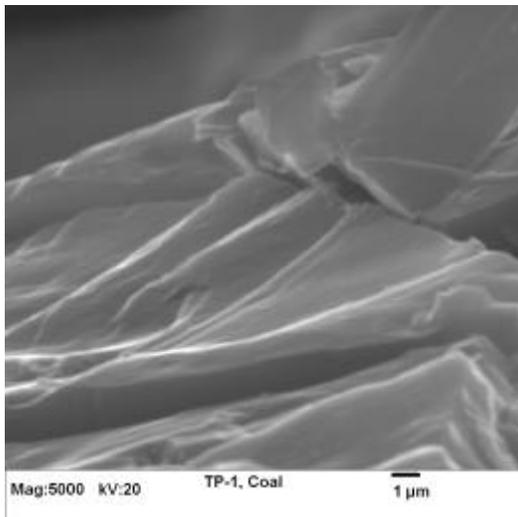


**TP-1 0-3':**

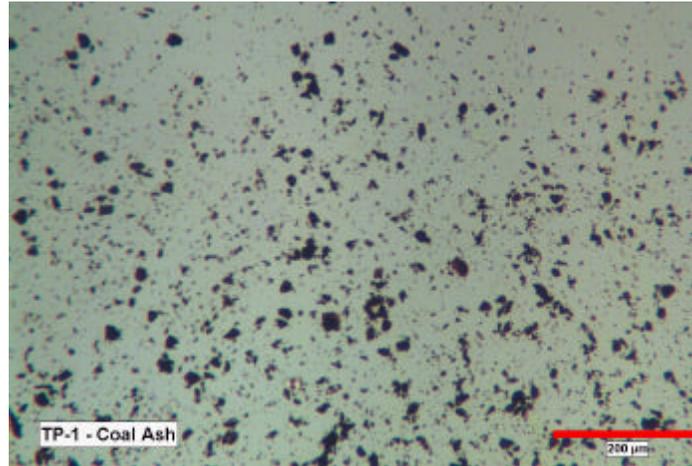
Two types of dark suspect particles were identified in this sample. The first particle type showed irregularly shaped opaque grains with a brown-black color. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the refractive index oil under PLM examination, showing both rounded and sharp edged fragments.



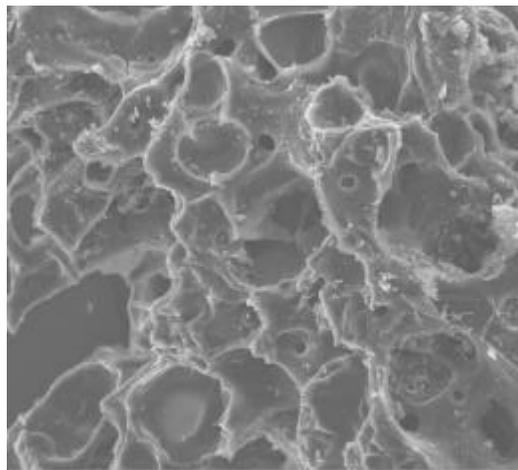
Under the SEM the particles demonstrated smooth surfaces characterized by curved edges and evidence of conchoidal fracture patterns along the surface. The average chemical composition exhibited a very strong carbon peak, with lower concentrations of oxygen, aluminum, silicon, sulfur, chlorine and calcium. The morphology and chemical composition of these particles matches bituminous coal.



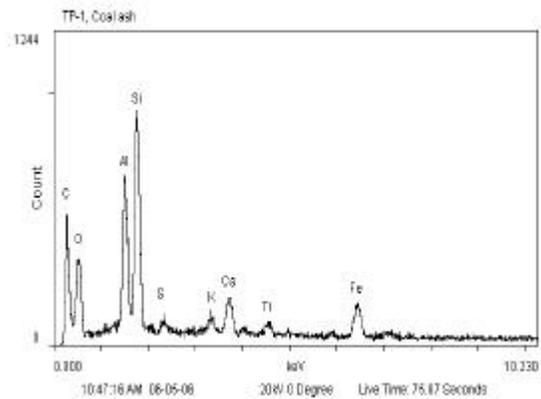
The second type of dark suspect particle showed irregular curved opaque grains. The particles did not dissolve in the index of refraction oil under PLM examination.



SEM examination shows that this material has a surface covered with pits, craters and air holes. The EDX spectrum exhibits strong peak concentrations of carbon, aluminum and silicon, with lower amounts of oxygen, sulfur, potassium, calcium, titanium and iron. The morphology and chemical composition of these grains are consistent with coal ash.

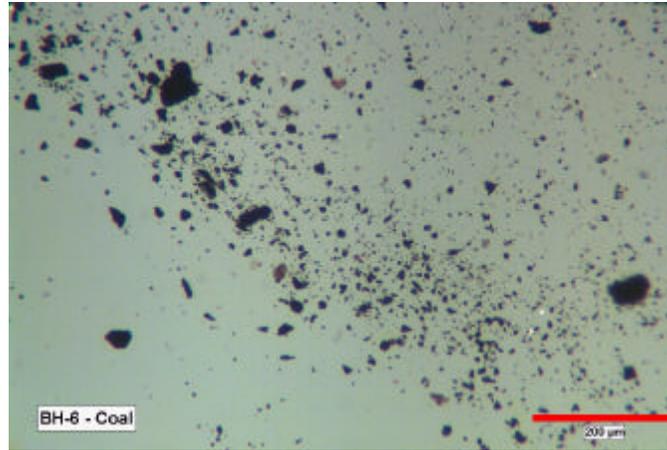


Mag:200 KV:20 TP-1, Coal ash 100 µm

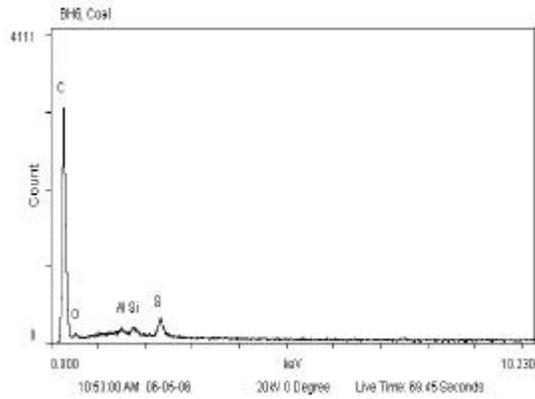
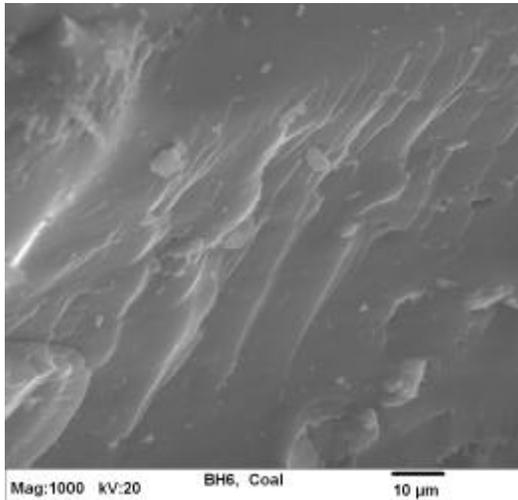


**BH6 2.5-5':**

Only one suspect particle type was observed in this sample. The particles showed irregularly shaped brown opaque grains smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination.



SEM examination demonstrated smooth surfaces marked by sharp, curved conchoidal fracture patterns along the surface of the sample. The EDX spectrum shows a very strong peak concentration of carbon, moderate to low peak concentration of sulfur, with lower amounts of oxygen, aluminum and silicon. The morphology and chemical composition of these grains are consistent with bituminous coal.



**DISCUSSION:**

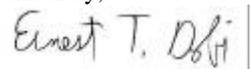
The EDX data, texture and morphology of the grains as seen by the PLM and SEM in sample BH2 was consistent for a moderate concentration of bituminous coal and a heavy loading of coal ash.

Sample TP-1 contained a moderate to heavy loading of bituminous coal, and a heavy concentration of coal ash.

There was a moderate concentration of bituminous coal in sample BH6 along with some slag.

If you have further questions or need additional information, please contact client services or me at any time.

Sincerely,

A handwritten signature in black ink that reads "Ernest T. Dobi". The signature is written in a cursive style and is followed by a vertical line.

Ernest T. Dobi, Ph.D  
Manager, Microscopy Services



Friday, June 16, 2006

Cynthia Gilchrest  
Common Sense Env'tl Inc  
50 Theresa Street  
South Dartmouth, MA 02748

GeoLabs, Inc.  
45 Johnson Lane  
Braintree MA 02184  
Tele: 781 848 7844  
Fax: 781 848 7811

TEL: (508) 991-3491  
FAX: (508) 992-5039

Project: 16 Blackmer St  
Location: New Bedford, MA

Order No.: 0606150

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 4 sample(s) on 6/13/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen  
Laboratory Director

CLIENT: Common Sense Env'tl Inc  
 Project: 16 Blackmer St

Lab Order: 0606150

Lab ID: 0606150-001  
 Client Sample ID: BH6A 2.5-6.0

Collection Date: 6/12/2006 2:00:00 PM  
 Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>IGNITABILITY</b>			<b>SW1010</b>			Analyst: AMS
Ignitability	>100	20		°C	1	6/14/2006
<b>TOTAL PETROLEUM HYDROCARBONS</b>			<b>8100M</b>	<b>(8100M)</b>		Analyst: KH
Total Petroleum Hydrocarbons	456	5.81		mg/Kg-dry	1	6/13/2006
Surr: o-terphenyl	125	40-140		%REC	1	6/13/2006
<b>POLYCHLORINATED BIPHENYLS</b>			<b>SW8082</b>	<b>(SW3550)</b>		Analyst: GP
Aroclor 1016/1242	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1221	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1232	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1248	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1254	191	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1260	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1262	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1268	ND	58.1		µg/Kg-dry	1	6/14/2006
Surr: Decachlorobiphenyl Sig 1	108	30-150		%REC	1	6/14/2006
Surr: Decachlorobiphenyl Sig 2	82.0	30-150		%REC	1	6/14/2006
Surr: Tetrachloro-m-xylene Sig 1	56.0	30-150		%REC	1	6/14/2006
Surr: Tetrachloro-m-xylene Sig 2	62.0	30-150		%REC	1	6/14/2006
<b>METALS, TOTAL</b>			<b>SW6010B</b>	<b>(SW3050B)</b>		Analyst: QS
Arsenic	ND	10.0		mg/Kg-dry	1	6/14/2006
Cadmium	ND	6.86		mg/Kg-dry	1	6/14/2006
Chromium	15.2	7.97		mg/Kg-dry	1	6/14/2006
Lead	550	10.1	*	mg/Kg-dry	1	6/14/2006
<b>MERCURY</b>			<b>SW 7471A</b>	<b>(SW7471A)</b>		Analyst: BF
Mercury	3.08	0.106		mg/Kg-dry	1	6/14/2006
<b>TCLP LEAD</b>			<b>6010b</b>	<b>(SW1311/3010A)</b>		Analyst: QS
Lead	0.799	0.0150		mg/L	1	6/14/2006
<b>VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>			<b>SW8260B</b>			Analyst: MR
1,1,1,2-Tetrachloroethane	ND	116		µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1,1-Trichloroethane	ND	116		µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1,2,2-Tetrachloroethane	ND	44.8		µg/Kg-dry	1	6/13/2006 8:56:00 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**CLIENT:** Common Sense Env'tl Inc  
**Project:** 16 Blackmer St

**Lab Order:** 0606150

VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B	Analyst: MR		
1,1,2-Trichloroethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1-Dichloroethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1-Dichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1-Dichloropropene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,3-Trichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,3-Trichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,4-Trichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,4-Trimethylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dibromo-3-chloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dibromoethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dichloroethane	ND	23.3	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,3,5-Trimethylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,3-Dichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,3-Dichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,4-Dichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2,2-Dichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Butanone	ND	233	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Chloroethyl vinyl ether	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Chlorotoluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Hexanone	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
4-Chlorotoluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
4-Isopropyltoluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
4-Methyl-2-pentanone	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Acetone	ND	1160	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Acrylonitrile	ND	1160	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Benzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromochloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromodichloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromoform	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromomethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Carbon tetrachloride	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chloroethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chloroform	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
cis-1,2-Dichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
cis-1,3-Dichloropropene	ND	13.7	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Dibromochloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Dibromomethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Dichlorodifluoromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Ethylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM

**Qualifiers:**  
 \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**CLIENT:** Common Sense Env'tl Inc  
**Project:** 16 Blackmer St

**Lab Order:** 0606150

VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B			Analyst: MR
Hexachlorobutadiene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Isopropylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Methyl tert-butyl ether	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Methylene chloride	ND	291	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Naphthalene	ND	1160	µg/Kg-dry	1	6/13/2006 8:56:00 PM
n-Butylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
n-Propylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
sec-Butylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Styrene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
tert-Butylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Tetrachloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Toluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
trans-1,2-Dichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
trans-1,3-Dichloropropene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Trichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Trichlorofluoromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Vinyl chloride	ND	46.5	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Xylenes, Total	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	1	6/13/2006 8:56:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	6/13/2006 8:56:00 PM
Surr: Dibromofluoromethane	94.8	70-130	%REC	1	6/13/2006 8:56:00 PM
Surr: Toluene-d8	98.6	70-130	%REC	1	6/13/2006 8:56:00 PM

PH		SW9045B			Analyst: NS
pH	6.83	0	pH Units	1	6/14/2006

CYANIDE, REACTIVE		SW7.3.3.2			Analyst: NS
Reactive Cyanide	ND	5.00	mg/Kg-dry	1	6/14/2006

SULFIDE, REACTIVE		SW7.3.4.2			Analyst: NS
Reactive Sulfide	ND	1.23	mg/Kg-dry	1	6/14/2006

**Lab ID:** 0606150-002 **Collection Date:** 6/12/2006 2:15:00 PM  
**Client Sample ID:** BH6B 2.5-6.0 **Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>METALS, TOTAL</b>		<b>SW6010B (SW3050B)</b>			Analyst: QS	
Lead	209	11.0		mg/Kg-dry	1	6/14/2006

- Qualifiers:**
- \* Value exceeds Maximum Contaminant Level
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - S Spike Recovery outside accepted recovery limits
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit



# CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0606150DR

CHECKED ITEMS MUST BE FILLED IN	24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KÄHLER OR LAB DIRECTOR	
<b>GeoLabs, Inc.</b> Environmental Laboratories 45 Johnson Lane Braintree, MA 02184 Office: 781-848-7844 Fax: 781-848-7811	<b>Turnaround Time</b> RUSH: 24-48hrs <input type="checkbox"/> STANDARD: <input checked="" type="checkbox"/> 72hrs <input type="checkbox"/> 5 Days <input checked="" type="checkbox"/>	Page <u>1</u> of <u>1</u>
	RUSH APPROVED BY: <input checked="" type="checkbox"/>	SPECIAL INSTRUCTIONS
		RCS-7

**Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION**

TYPE OF CLIENT: BUS <input type="checkbox"/> LAB <input type="checkbox"/> HOMEOWNER <input type="checkbox"/>	NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES	
Client: <u>X Common Sense Inc.</u>	Project Number: <u>X</u>	CHANGES REQUESTED? <input type="checkbox"/> Y <input type="checkbox"/> N
Address: <u>X 50 Theresa St. NO P.O. BOXES</u> <u>Dartmouth MA 02748</u>	Project Location: <u>X 116 Blackman St.</u> <u>New Bedford MA</u>	BY _____ DATE _____
Phone: <u>X 508-991-3491</u>	Purchase Order #: _____	Received on ice? <input type="checkbox"/>
Fax: <u>508-992-5039</u>	Collected By: <u>Cynthia</u>	
Contact: <u>X Cynthia</u>		
E-mail: <u>cense@empire.net</u>		

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	ANALYSES REQUESTED										
	DATE	TIME	SAMP BY		TYPE	QUANT	MATRIX	COMP	GRAB		PRES	Totale head	MA Disposal	TCLP-Lead	TPH	PCB, RCRA 5	8260	pH, reactivity	flashpoint	TEMPERATURE	LAB PH
	<u>6/12/06</u>	<u>2:00</u>	<u>NSR</u>	<u>BH6A 2.5-6.0</u>	<u>A</u>	<u>Z</u>	<u>S</u>		<u>X</u>		<u>06150-001</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>7°</u>	<u>-</u>
		<u>2:00</u>		<u>BH6A 2.5-6.0</u>	<u>Y</u>	<u>I</u>	<u>S</u>		<u>X</u>	<u>6</u>	<u>06150-002</u>		<u>X</u>			<u>X</u>					<u>-</u>
		<u>2:15</u>		<u>BH6B 2.5-6.0</u>	<u>A</u>	<u>I</u>	<u>S</u>		<u>X</u>		<u>06150-003</u>	<u>X</u>									<u>-</u>
		<u>2:30</u>		<u>BH6C 2.5-6.0</u>	<u>A</u>	<u>I</u>	<u>S</u>		<u>X</u>		<u>06150-004</u>	<u>X</u>									<u>-</u>
		<u>2:45</u>		<u>BH6D 2.5-6.0</u>	<u>A</u>	<u>I</u>	<u>S</u>		<u>X</u>		<u>06150-004</u>	<u>X</u>									<u>-</u>
<u>Cynthia</u> <u>6/12/06</u>																					

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO <sub>3</sub> 6 = MeOH 3 = H <sub>2</sub> SO <sub>4</sub> 7 = ICE 4 = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Relinquished By: <u>Cynthia Gilchrist</u> <u>6/12/06</u> PRINT: <u>Cynthia Gilchrist</u> Relinquished By: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> <u>6-13-06 11:30</u>	Received By: <u>[Signature]</u> <u>6-13-06 10:30</u> Received By: <u>[Signature]</u> Received By GeoLabs: <u>Danielle Rega</u> <u>6/13/06 11:30a</u>	
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.					

## Appendix D      Field Sampling Logs

**LOW FLOW GROUNDWATER MONITORING REPORT**

**Client:** Common Sense Environmental  
50 Theresa Street  
South Dartmouth, MA 02748  
**Attention:** Cynthia Gilchrest  
**Report Date:** June 6, 2006

**Site Location:** 16 Blackmer Street, New Bedford, MA  
**Sample Date:** May 30, 2006  
**Field Technician(s):** J. Giancioppo  
**Weather Conditions:** Sunny +/-70°F

Location ID	SWL (feet)	pH (S.U.)	Cond (mS/cm)	Temp (0C)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
CSE-1	4.80	6.45	15.84	14.58	1.39	4.4	223.8
CSE-2	4.47	5.22	1.166	15.63	1.02	>200	332.3
CSE-3	6.64	5.40	1.083	19.87	1.87	180	327.0

- Note(s):**
- Appropriately preserved samples delivered to GeoLabs, Braintree, MA with the associated Chain of Custody documentation.
  - Static Water Levels were measured from top of PVC Riser unless indicated otherwise.
  - Measurements listed above indicate final stabilized field analytical results.
  - Samples collected for dissolved metals analysis were field filtered to 0.45 micron.
  - CSE-2 purged dry sampled after sufficient recharge.
  - Metals duplicate collected at CSE-3

Reviewed By: \_\_\_\_\_



# EST - LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Common Sense Environmental PROJECT# \_\_\_\_\_ WELL ID CSE-3  
 LOCATION New Bedford  
 SAMPLING CREW JG DATE: 5/30/06 SAMPLE TIME: 12:00

**PURGING DATA**

REFERENCE POINT: PVC Steel Casing PURGING DEVICE: GED PUMP  
 DEPTH TO WATER 10.64 (FT) WELL DEPTH 8.89 (FT) Well Diameter 2"

CLOCK TIME	STATIC DEPTH (FT)	PURGE RATE (ML)	CUM. VOLUME PURGED (L)	TEMP (°C)	SP. COND (mS/cm)	pH (s.u.)	ORP/Eh (MV)	DO (mg/L)	Turb (NTU)	COMMENTS
11:20	6.80	100	1	20.28	1.143	5.27	320.1	4.10	100	
11:25	6.93		1.5	18.65	1.128	5.02	330.0	3.51	105	
11:30	7.00		2	18.74	1.090	4.90	347.3	2.98	120	Getting consistently more turbid w/ tan color
11:35	7.05		3.0	18.61	1.084	4.92	346.2	2.32	160	
11:40	7.05		3.5	19.45	1.083	5.18	333.1	2.03	210	
11:45	7.05		4	19.94	1.085	5.38	329.9	1.97	190	
11:50	7.05		4.5	19.90	1.083	5.45	328.8	1.88	180	
11:55	7.05		5	19.87	1.083	5.40	327.0	1.87	180	

**FINAL FIELD DATA**

pH: 5.40 (S.U.) DO: 1.87 (mg/L) COMMENTS: Low water level w/ slow recharge - Well is new.  
 SPECIFIC CONDUCTANCE: 1.083 (mS/cm) TURBIDITY: 180 (NTU)  
 TEMPERATURE: 19.87 (°C) ORP: 327.0 (MV)

ODOR AND PHYSICAL APPEARANCE OF SAMPLE: Tan, silty w/ no odor

METAL DUPLICATE

WEATHER CONDITIONS: sunny, hot 70°-80° F

**WELL CONDITION DATA**

Protective Casing Present:  Y  N Concrete pad present:  Y  N Cap on riser:  Y  N  
 Protective Casing Locked:  Y  N Standing Water:  Y  N Visible Heaving:  Y  N  
 Physical Damage:  Y  N  
 If yes, Describe: \_\_\_\_\_

SAMPLER'S SIGNATURE: [Signature]

# EST - LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Common Sense Environmental PROJECT#: \_\_\_\_\_ WELL ID: CSE-1  
 LOCATION: New Bedford  
 SAMPLING CREW: JG DATE: 5/30/06 SAMPLE TIME: 10:35

**PURGING DATA**

REFERENCE POINT: PVC Steel Casing PURGING DEVICE: GEO PUMP  
 DEPTH TO WATER: 4.80 (FT) WELL DEPTH: 9.90 (FT) Well Diameter: 2

CLOCK TIME	STATIC DEPTH (FT)	PURGE RATE (ML)	CUM. VOLUME PURGED (L)	TEMP (°C)	SP. COND (mS/cm)	pH (s.u.)	ORP/Eh (MV)	DO (mg/L)	Turb (NTU)	COMMENTS
9:50	4.94	12.5	2	14.25	17.17	4.62	331.0	4.12	50	
9:55	4.95	↓	3.25	14.36	16.11	3.86	252.9	3.25	28	pH readings low?!
10:00	4.98		4.5	14.30	15.78	4.82	244.1	2.49	8.0	
10:05	4.99		5.75	13.98	15.75	6.41	236.5	2.04	6.3	<span style="border: 1px solid black; padding: 2px;">CHANGED pH METER</span>
10:10	5.00		7	14.21	15.71	6.48	228.0	1.81	5.3	
10:15	4.99		8.25	14.52	15.79	6.45	225.6	1.67	5.0	
10:20	4.99		9.5	14.64	15.87	6.43	225.5	1.59	4.4	Turbidity below reg'mnts
10:25	4.99		10.75	14.56	15.85	6.45	224.1	1.45		
10:30	4.99	11.0	14.58	15.84	6.45	223.8	1.39			

**FINAL FIELD DATA**

pH: 6.45 (S.U.) DO: 1.39 (mg/L) COMMENTS: Well in good condition (NEW).  
 SPECIFIC CONDUCTANCE: 15.84 (mS/cm) TURBIDITY: 4.4 (NTU) Good recharge  
 TEMPERATURE: 14.58 (°C) ORP: 223.8 (MV)

ODOR AND PHYSICAL APPEARANCE OF SAMPLE: clear w/no odor

WEATHER CONDITIONS: sunny, humid 78° F

**WELL CONDITION DATA**

Protective Casing Present:  Y  N Concrete pad present:  Y  N Cap on riser:  Y  N  
 Protective Casing Locked:  Y  N Standing Water:  Y  N Visible Heaving:  Y  N  
 Physical Damage:  Y  N  
 If yes, Describe: \_\_\_\_\_

SAMPLER'S SIGNATURE:

# EST - LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Common Sense Environmental PROJECT#: \_\_\_\_\_ WELL ID: CCE-2  
 LOCATION: New Bedford  
 SAMPLING CREW: JG DATE: 5/30/06 SAMPLE TIME: 13:30

**PURGING DATA**

REFERENCE POINT: PVC Steel Casing PURGING DEVICE: GEO PUMP  
 DEPTH TO WATER: 4.47 (FT) WELL DEPTH: 8.05 (FT) Well Diameter: 2"

CLOCK TIME	STATIC DEPTH (FT)	PURGE RATE (ML)	CUM. VOLUME PURGED (L)	TEMP (°C)	SP. COND (mS/cm)	pH (s.u.)	ORP/Eh (MV)	DO (mg/L)	Turb (NTU)	COMMENTS
12:50	4.70	100	1	15.25	1.147	6.15	324.5	3.43	95	
12:55	5.15	↓	1.5	14.93	1.147	5.37	330.1	2.60	150	
13:00	5.40		2	14.76	1.163	5.41	312.1	1.83	>200	
13:05	5.45		2.5	15.10	1.163	5.20	304.7	1.67	7200	
13:10	5.55		3	15.46	1.165	5.22	341.9	1.42	7200	
13:15	5.70		3.5	15.56	1.167	5.18	338.0	1.20	7200	
13:20	6.00		4	15.64	1.167	5.20	332.5	1.05	7200	
13:25	6.20		4.5	15.63	1.166	5.22	332.3	1.02	7200	Stopped due to stable #'s and quick drawdown of well

**FINAL FIELD DATA**

pH: 5.22 (S.U.) DO: 1.02 (mg/L) COMMENTS: Well in good condition (new)  
 SPECIFIC CONDUCTANCE: 1.166 (mS/cm) TURBIDITY: 7200 (NTU) V. slow recharge - well drops quickly  
 TEMPERATURE: 15.63 (°C) ORP: 332.3 (MV) even @ pumps slowest speeds  
 ODOR AND PHYSICAL APPEARANCE OF SAMPLE: Silty, tan color w/no odor WELL WENT DRY  
 WEATHER CONDITIONS: Sunny, hot 70-80 F

**WELL CONDITION DATA**

Protective Casing Present:  Y  N Concrete pad present:  Y  N Cap on riser:  Y  N  
 Protective Casing Locked:  Y  N Standing Water:  Y  N Visible Heaving:  Y  N  
 Physical Damage:  Y  N  
 If yes, Describe: \_\_\_\_\_

SAMPLER'S SIGNATURE: \_\_\_\_\_



# CHAIN OF CUSTODY RECORD

Laboratory: Geolabs, 781-848-7844

Client: **Common Sense Environmental**  
 Address: **50 Theresa Street South Dartmouth, MA 02748**  
 Contact: **Cynthia Gilchrest**  
 Phone #: **508-991-3491** Fax: \_\_\_\_\_  
 Project Name: **New Bedford Wells**  
 Address: **16 Blackmer Street New Bedford, MA**  
 Contact: **Cynthia Gilchrest** Phone: **508-991-3491**  
 Cell: **508-726-0902** Fax: \_\_\_\_\_  
 Description: **Low Flow Groundwater Sampling**

<b>MATRIX</b>	1. Wastewater	PCB's	PAH's/EPH w/Targets	Dissolved Pb (Field Filtered)	Analytical Information									
	2. Groundwater													
	3. Drinking Water													
	4. Soil													
	5. Surface Water													
	6. Other _____													

EST to Invoice: **Common Sense**  
 Lab to Invoice: **EST**  
 Lab Report to: **Csense@empire.net**  
 Billing Reference: **Q#9910523-06-10 NFC**

Field ID / Point of Collection	Collection		Matrix	# of bottles			Preservation							PCB's	PAH's/EPH w/Targets	Dissolved Pb (Field Filtered)	Comments:
	Date	Time		Glass	Plastic	VOA's	Type										
							HCL	NaOH	HNO3	H2SO4	MEOH	Other	None				
SE 1	5/30	10:35	2	6	1		X	X				X	X	X			
SE 2	11	13:30	2	6	1		X	X				X	X	X			
SE 3	11	12:00	2	6	1		X	X				X	X	X			
Duplicate	11	12:00													X		

<input type="checkbox"/> Std. 10 Day Turnaround <input checked="" type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH	Approved By: _____ _____ _____ _____	SPECIAL QA/QC or DATA Requirements: _____ _____ _____	Each Bottle Set to Include: PAH's/EPH: (3) 1L Amber with HCl Dissolved Pb: (1) 500ml Plastic (Field Filtered-HNO3) PCB's: (3) Ambers with Na2S2O3
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: Date Time: <b>5/30/06 15:00</b>	Received By: Date Time: <b>5/30/06 3:35</b>		
Relinquished by Sampler: _____ Date Time: _____	Received By: _____ Date Time: _____	Date Time: _____	Seal # <input type="checkbox"/> Preserve where applicable <input type="checkbox"/> On ice <input type="checkbox"/> Temp. _____

Appendix E      Groundwater Analytical Data Sheets



Thursday, June 08, 2006

Cynthia Gilcrest  
Common Sense Envtl Inc  
50 Theresa Street  
South Dartmouth, MA 02748

GeoLabs, Inc.  
45 Johnson Lane  
Braintree MA 02184  
Tele: 781 848 7844  
Fax: 781 848 7811

TEL: (508) 991-3491  
FAX: (508) 992-5039

Project: New Bedford Wells  
Location: 16 Blackmer St, New Bedford, MA

Order No.: 0605429

Dear Cynthia Gilcrest:

GeoLabs, Inc. received 4 sample(s) on 5/31/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Chen", written in a cursive style.

Jim Chen  
Laboratory Director

**GeoLabs, Inc.**

**Date:** 08-Jun-06

**CLIENT:** Common Sense Env'tl Inc  
**Project:** New Bedford Wells  
**Lab Order:** 0605429

**CASE NARRATIVE**

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: GeoLabs, Inc. Project #  
Project Location: 16 Blackmer Street, New Bedford MA MADEP RTN #:

This form provides certification for the following data set: 0605429 (001-004)

Sample Matrix: Groundwater

MCP SW-846 Methods Used: EPH, 8082, 6010B

An affirmative answer to questions A, B and C are required for "Presumptive Certainty" status

A. Were all samples received by the laboratory in a condition consistent with that described on the Chain of custody documentation for the data set? YES

B. Were all QA/QC procedures required for the specified method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate standards or guidelines? YES

C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 of the MADEP documents CAM VII A "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES

A response to questions D and E are required for "Presumptive Certainty" status

D. Were all QC performance standards and recommendations for the specified methods achieved? YES

E. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

All NO answers need to be addressed in an attached Environmental Laboratory case narrative.

**GeoLabs, Inc.**

**Date:** 08-Jun-06

**CLIENT:** Common Sense Env'tl Inc  
**Project:** New Bedford Wells  
**Lab Order:** 0605429

**CASE NARRATIVE**

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:



Position: Lab Director

Printed Name: Jim Chen

Date: June 8, 2006

**GeoLabs, Inc.**

**Date:** 08-Jun-06

**CLIENT:** Common Sense Envtl Inc  
**Project:** New Bedford Wells  
**Lab Order:** 0605429

EPH Methods

Method for Ranges: MADEP EPH 04-1.1  
Method for Target Analytes: 8270 GC/MS

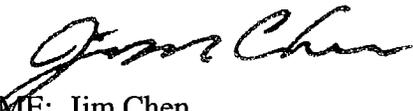
Carbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range  
C11-C22 Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes

**CERTIFICATION:**

Were all QA/QC procedures REQUIRED by the EPH Method followed? YES  
Were all performance/acceptance standards achieved? YES  
Were any significant modifications made to the EPH method? NO

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:



LAB DIRECTOR

PRINTED NAME: Jim Chen

DATE: June 8, 2006

**CLIENT:** Common Sense Eenvtl Inc  
**Lab Order:** 0605429  
**Project:** New Bedford Wells  
**Lab ID:** 0605429-001

**Client Sample ID:** CSE-1  
**Collection Date:** 5/30/2006 10:35:00 AM  
**Date Received:** 5/31/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	ND	100	µg/L	1	5/31/2006	
C09-C18 Aliphatics	ND	100	µg/L	1	5/31/2006	
C19-C36 Aliphatics	ND	100	µg/L	1	5/31/2006	
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1	5/31/2006	
Surr: 1-Chlorooctadecane	45.0	40-140	%REC	1	5/31/2006	
Surr: o-Terphenyl	89.0	40-140	%REC	1	5/31/2006	
<b>POLYCHLORINATED BIPHENYLS</b>						
			<b>SW8082</b>	<b>(SW3510B)</b>		Analyst: GP
Aroclor 1016/1242	ND	0.303	µg/L	1	5/5/2006	
Aroclor 1221	ND	0.303	µg/L	1	5/5/2006	
Aroclor 1232	ND	0.303	µg/L	1	5/5/2006	
Aroclor 1248	ND	0.303	µg/L	1	5/5/2006	
Aroclor 1254	0.721	0.303	µg/L	1	5/5/2006	
Aroclor 1260	ND	0.303	µg/L	1	5/5/2006	
Aroclor 1262	ND	0.303	µg/L	1	5/5/2006	
Aroclor 1268	ND	0.303	µg/L	1	5/5/2006	
Surr: Decachlorobiphenyl Sig 1	58.0	30-150	%REC	1	5/5/2006	
Surr: Decachlorobiphenyl Sig 2	60.0	30-150	%REC	1	5/5/2006	
Surr: Tetrachloro-m-xylene Sig 1	80.0	30-150	%REC	1	5/5/2006	
Surr: Tetrachloro-m-xylene Sig 2	84.0	30-150	%REC	1	5/5/2006	
<b>DISSOLVED METALS BY ICP</b>						
			<b>SW6010B</b>	<b>(SW3005A)</b>		Analyst: QS
Lead	ND	0.0150	mg/L	1	5/31/2006	
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_WPR)</b>		Analyst: ZYZ
Naphthalene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
2-Methylnaphthalene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Acenaphthene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Phenanthrene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Acenaphthylene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Fluorene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Anthracene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Fluoranthene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Pyrene	ND	1.50	µg/L	1	6/6/2006 2:44:00 PM	
Benzo(a)anthracene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Chrysene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Benzo(b)fluoranthene	ND	1.00	µg/L	1	6/6/2006 2:44:00 PM	
Benzo(k)fluoranthene	ND	0.120	µg/L	1	6/6/2006 2:44:00 PM	
Benzo(a)pyrene	ND	0.0800	µg/L	1	6/6/2006 2:44:00 PM	

**Qualifiers:**  
 \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0605429  
**Project:** New Bedford Wells  
**Lab ID:** 0605429-001

**Client Sample ID:** CSE-1  
**Collection Date:** 5/30/2006 10:35:00 AM  
**Date Received:** 5/31/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH TARGET ANALYTES</b>						
		<b>MADEP</b>	<b>EPH_P</b>	<b>(EPH_WPR)</b>		<b>Analyst: ZYZ</b>
Indeno(1,2,3-cd)pyrene	ND	0.240		µg/L	1	6/6/2006 2:44:00 PM
Dibenz(a,h)anthracene	ND	0.500		µg/L	1	6/6/2006 2:44:00 PM
Benzo(g,h,i)perylene	ND	1.50		µg/L	1	6/6/2006 2:44:00 PM
Total PAH Target Concentration	ND	0		µg/L	1	6/6/2006 2:44:00 PM
Surr: 2,2'-difluorobiphenyl	73.3	40-140		%REC	1	6/6/2006 2:44:00 PM
Surr: 2-Fluorobiphenyl	70.5	40-140		%REC	1	6/6/2006 2:44:00 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0605429  
**Project:** New Bedford Wells  
**Lab ID:** 0605429-002

**Client Sample ID:** CSE-2  
**Collection Date:** 5/30/2006 1:30:00 PM  
**Date Received:** 5/31/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	ND	120	µg/L	1	5/31/2006	
C09-C18 Aliphatics	ND	120	µg/L	1	5/31/2006	
C19-C36 Aliphatics	ND	120	µg/L	1	5/31/2006	
Unadjusted C11-C22 Aromatics	ND	120	µg/L	1	5/31/2006	
Surr: 1-Chlorooctadecane	45.0	40-140	%REC	1	5/31/2006	
Surr: o-Terphenyl	91.0	40-140	%REC	1	5/31/2006	
<b>POLYCHLORINATED BIPHENYLS</b>						
			<b>SW8082</b>	<b>(SW3510B)</b>		Analyst: GP
Aroclor 1016/1242	ND	0.375	µg/L	1	5/5/2006	
Aroclor 1221	ND	0.375	µg/L	1	5/5/2006	
Aroclor 1232	ND	0.375	µg/L	1	5/5/2006	
Aroclor 1248	ND	0.375	µg/L	1	5/5/2006	
Aroclor 1254	0.871	0.375	µg/L	1	5/5/2006	
Aroclor 1260	ND	0.375	µg/L	1	5/5/2006	
Aroclor 1262	ND	0.375	µg/L	1	5/5/2006	
Aroclor 1268	ND	0.375	µg/L	1	5/5/2006	
Surr: Decachlorobiphenyl Sig 1	56.0	30-150	%REC	1	5/5/2006	
Surr: Decachlorobiphenyl Sig 2	62.0	30-150	%REC	1	5/5/2006	
Surr: Tetrachloro-m-xylene Sig 1	90.0	30-150	%REC	1	5/5/2006	
Surr: Tetrachloro-m-xylene Sig 2	94.0	30-150	%REC	1	5/5/2006	
<b>DISSOLVED METALS BY ICP</b>						
			<b>SW6010B</b>	<b>(SW3005A)</b>		Analyst: QS
Lead	ND	0.0150	mg/L	1	5/31/2006	
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_WPR)</b>		Analyst: ZYZ
Naphthalene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
2-Methylnaphthalene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Acenaphthene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Phenanthrene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Acenaphthylene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Fluorene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Anthracene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Fluoranthene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Pyrene	ND	1.81	µg/L	1	6/6/2006 3:18:00 PM	
Benzo(a)anthracene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Chrysene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Benzo(b)fluoranthene	ND	1.20	µg/L	1	6/6/2006 3:18:00 PM	
Benzo(k)fluoranthene	ND	0.145	µg/L	1	6/6/2006 3:18:00 PM	
Benzo(a)pyrene	ND	0.0964	µg/L	1	6/6/2006 3:18:00 PM	

**Qualifiers:**  
 \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit

**GeoLabs, Inc.**

**Date:** 08-Jun-06

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0605429  
**Project:** New Bedford Wells  
**Lab ID:** 0605429-002

**Client Sample ID:** CSE-2  
**Collection Date:** 5/30/2006 1:30:00 PM  
**Date Received:** 5/31/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH TARGET ANALYTES</b>			<b>MADEP EPH_P</b>	<b>(EPH_WPR)</b>		<b>Analyst: ZYZ</b>
Indeno(1,2,3-cd)pyrene	ND	0.289		µg/L	1	6/6/2006 3:18:00 PM
Dibenz(a,h)anthracene	ND	0.602		µg/L	1	6/6/2006 3:18:00 PM
Benzo(g,h,i)perylene	ND	1.81		µg/L	1	6/6/2006 3:18:00 PM
Total PAH Target Concentration	ND	0		µg/L	1	6/6/2006 3:18:00 PM
Surr: 2,2'-difluorobiphenyl	72.9	40-140		%REC	1	6/6/2006 3:18:00 PM
Surr: 2-Fluorobiphenyl	71.6	40-140		%REC	1	6/6/2006 3:18:00 PM

**Qualifiers:**

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Value above quantitation range	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits	

CLIENT: Common Sense Env'tl Inc  
 Lab Order: 0605429  
 Project: New Bedford Wells  
 Lab ID: 0605429-003

Client Sample ID: CSE-3  
 Collection Date: 5/30/2006 12:00:00 PM  
 Date Received: 5/31/2006  
 Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH RANGES</b>						
			<b>MADEP EPH</b>	<b>(MADEP EPH)</b>		Analyst: KH
Adjusted C11-C22 Aromatics	ND	114	µg/L	1	5/31/2006	
C09-C18 Aliphatics	ND	114	µg/L	1	5/31/2006	
C19-C36 Aliphatics	ND	114	µg/L	1	5/31/2006	
Unadjusted C11-C22 Aromatics	ND	114	µg/L	1	5/31/2006	
Surr: 1-Chlorooctadecane	50.0	40-140	%REC	1	5/31/2006	
Surr: o-Terphenyl	58.0	40-140	%REC	1	5/31/2006	
<b>POLYCHLORINATED BIPHENYLS</b>						
			<b>SW8082</b>	<b>(SW3510B)</b>		Analyst: GP
Aroclor 1016/1242	ND	0.366	µg/L	1	5/5/2006	
Aroclor 1221	ND	0.366	µg/L	1	5/5/2006	
Aroclor 1232	ND	0.366	µg/L	1	5/5/2006	
Aroclor 1248	ND	0.366	µg/L	1	5/5/2006	
Aroclor 1254	0.829	0.366	µg/L	1	5/5/2006	
Aroclor 1260	ND	0.366	µg/L	1	5/5/2006	
Aroclor 1262	ND	0.366	µg/L	1	5/5/2006	
Aroclor 1268	ND	0.366	µg/L	1	5/5/2006	
Surr: Decachlorobiphenyl Sig 1	60.0	30-150	%REC	1	5/5/2006	
Surr: Decachlorobiphenyl Sig 2	64.0	30-150	%REC	1	5/5/2006	
Surr: Tetrachloro-m-xylene Sig 1	82.0	30-150	%REC	1	5/5/2006	
Surr: Tetrachloro-m-xylene Sig 2	86.0	30-150	%REC	1	5/5/2006	
<b>DISSOLVED METALS BY ICP</b>						
			<b>SW6010B</b>	<b>(SW3005A)</b>		Analyst: QS
Lead	ND	0.0150	mg/L	1	5/31/2006	
<b>EPH TARGET ANALYTES</b>						
			<b>MADEP EPH_P</b>	<b>(EPH_WPR)</b>		Analyst: ZYZ
Naphthalene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
2-Methylnaphthalene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Acenaphthene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Phenanthrene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Acenaphthylene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Fluorene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Anthracene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Fluoranthene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Pyrene	ND	1.70	µg/L	1	6/6/2006 3:51:00 PM	
Benzo(a)anthracene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Chrysene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Benzo(b)fluoranthene	ND	1.14	µg/L	1	6/6/2006 3:51:00 PM	
Benzo(k)fluoranthene	ND	0.136	µg/L	1	6/6/2006 3:51:00 PM	
Benzo(a)pyrene	ND	0.0909	µg/L	1	6/6/2006 3:51:00 PM	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0605429  
**Project:** New Bedford Wells  
**Lab ID:** 0605429-003

**Client Sample ID:** CSE-3  
**Collection Date:** 5/30/2006 12:00:00 PM  
**Date Received:** 5/31/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>EPH TARGET ANALYTES</b>				<b>MADEP EPH_P (EPH_WPR)</b>		<b>Analyst: ZYZ</b>
Indeno(1,2,3-cd)pyrene	ND	0.273		µg/L	1	6/6/2006 3:51:00 PM
Dibenz(a,h)anthracene	ND	0.568		µg/L	1	6/6/2006 3:51:00 PM
Benzo(g,h,i)perylene	ND	1.70		µg/L	1	6/6/2006 3:51:00 PM
Total PAH Target Concentration	ND	0		µg/L	1	6/6/2006 3:51:00 PM
Surr: 2,2'-difluorobiphenyl	42.6	40-140		%REC	1	6/6/2006 3:51:00 PM
Surr: 2-Fluorobiphenyl	40.1	40-140		%REC	1	6/6/2006 3:51:00 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

**GeoLabs, Inc.**

**Date:** 08-Jun-06

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0605429  
**Project:** New Bedford Wells  
**Lab ID:** 0605429-004

**Client Sample ID:** Duplicate  
**Collection Date:** 5/30/2006 12:00:00 PM  
**Date Received:** 5/31/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>DISSOLVED METALS BY ICP</b>						Analyst: QS
Lead	ND	0.0150		mg/L	1	5/31/2006

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit





Wednesday, August 02, 2006

Cynthia Gilchrest  
Common Sense Env'tl Inc  
50 Theresa Street  
South Dartmouth, MA 02748

GeoLabs, Inc.  
45 Johnson Lane  
Braintree MA 02184  
Tele: 781 848 7844  
Fax: 781 848 7811

TEL: (508) 991-3491

FAX: (508) 992-5039

Project: Blackmer St  
Location: New Bedford, MA

Order No.: 0607359

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 2 sample(s) on 7/28/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen  
Laboratory Director

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0607359  
**Project:** Blackmer St  
**Lab ID:** 0607359-001A

**Client Sample ID:** CSE-2A  
**Collection Date:** 7/27/2006 10:00:00 AM  
**Date Received:** 7/28/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>POLYCHLORINATED BIPHENYLS</b>			<b>SW8082</b>	<b>(SW3510B)</b>		Analyst: GP
Aroclor 1016/1242	ND	0.345		µg/L	1	8/1/2006
Aroclor 1221	ND	0.345		µg/L	1	8/1/2006
Aroclor 1232	ND	0.345		µg/L	1	8/1/2006
Aroclor 1248	ND	0.345		µg/L	1	8/1/2006
Aroclor 1254	ND	0.345		µg/L	1	8/1/2006
Aroclor 1260	ND	0.345		µg/L	1	8/1/2006
Aroclor 1262	ND	0.345		µg/L	1	8/1/2006
Aroclor 1268	ND	0.345		µg/L	1	8/1/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	8/1/2006
Surr: Decachlorobiphenyl Sig 2	96.0	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 1	106	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 2	100	30-150		%REC	1	8/1/2006

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	

**CLIENT:** Common Sense Env'tl Inc  
**Lab Order:** 0607359  
**Project:** Blackmer St  
**Lab ID:** 0607359-002A

**Client Sample ID:** CSE-2B  
**Collection Date:** 7/27/2006 10:00:00 AM  
**Date Received:** 7/28/2006  
**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
<b>POLYCHLORINATED BIPHENYLS</b>			<b>SW8082</b>	<b>(SW3510B)</b>		Analyst: GP
Aroclor 1016/1242	ND	0.353		µg/L	1	8/1/2006
Aroclor 1221	ND	0.353		µg/L	1	8/1/2006
Aroclor 1232	ND	0.353		µg/L	1	8/1/2006
Aroclor 1248	ND	0.353		µg/L	1	8/1/2006
Aroclor 1254	ND	0.353		µg/L	1	8/1/2006
Aroclor 1260	ND	0.353		µg/L	1	8/1/2006
Aroclor 1262	ND	0.353		µg/L	1	8/1/2006
Aroclor 1268	ND	0.353		µg/L	1	8/1/2006
Surr: Decachlorobiphenyl Sig 1	126	30-150		%REC	1	8/1/2006
Surr: Decachlorobiphenyl Sig 2	96.0	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 1	104	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 2	96.0	30-150		%REC	1	8/1/2006

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	



## Appendix F      Data Usability Assessment

## **Laboratory Data Quality Analysis**

RTN: 4-15490

16 Blackmer Street, New Bedford, Massachusetts

The following provides a discussion specific to analytical data generated as a result of work completed by Common Sense Environmental, Inc., and provided as Appendices B and D and summarized in Section 4.0.

### **Soil Investigation**

The MADEP MCP Response Action Analytical Report Certification Form provided by GeoLabs indicates that all soil data in the report meet all the requirements for “Presumptive Certainty”, as described in Section 2.0 of the MADEP document CAM VII A, “Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data”.

### **Lead in Soil Data:**

#### **Duplicate 1**

The laboratory certification indicates that the analytical data meet all the requirements of “Presumptive Certainty”, as described in Section 2.0 of MADEP documents CAM VII A, “Quality Assurance and Quality Control Guidelines of the Acquisition and Reporting of Analytical Data”. Further, Common Sense submitted sample BH-1 2.5-5 feet and a duplicate sample (Duplicate 1/ BH-1 2.5-5 feet) for total lead analysis. Sample BH-1 2.5-5 feet 287ppm lead and Duplicate 1/ BH-1 2.5-5 feet exhibited 194 ppm lead. Further, MADEP requirements for Method 6010B Performance Standards for matrix duplicate indicate that if the difference between the sample concentrations (287 ppm -194 ppm = 93 ppm) divided by the average of concentrations (287ppm + 194 ppm is 481 ppm divided by 2 for an average of 240.5 ppm) is less than 35% the data are acceptable. However, the difference in concentration (93 ppm) divided by the average (240.51 ppm) equals 38% which is greater than 35% CAM guidelines. As a result, the analytical data for lead soil samples obtained from the Site are technically considered unacceptable for the purpose of this Response Action Outcome. However, the disparity of sample concentrations may be attributed to a non-homogenous sample and the observation of fill material throughout the Site.

### **EPH/PAHs:**

The laboratory certification indicates that the analytical data meet all the requirements of “Presumptive Certainty”, as described in Section 2.0 of MADEP documents CAM VII A, “Quality Assurance and Quality Control Guidelines of the Acquisition and Reporting of Analytical Data”. Common Sense collected two duplicate samples (Duplicate 3 and Duplicate 4) for laboratory analysis for EPH and PAHs.

#### **Duplicate 3**

MADEP requirements for Method 8270 Performance Standards for matrix duplicate Relative Performance Difference (RPD) indicate that if the difference between the sample concentrations is less than five times the reporting limit then the data are acceptable. Common Sense submitted sample CSE TP-3 0-3 feet and a duplicate sample (Duplicate 3/ CSE TP-3 0-3 feet) for EPH and PAH analysis. Sample CSE TP-3 0-3 feet exhibited 337 ppm C11-C22 aromatic hydrocarbons, 9.85 ppm benzo(a)anthracene and 9.87 ppm chrysene. Duplicate 3/ CSE TP-3 0-3 feet exhibited 613 ppm C11-C22 aromatic hydrocarbons, 15.7 ppm benzo(a)anthracene and 16.4 ppm chrysene.

#### C11-C22 aromatic hydrocarbons

The difference between C11-C22 aromatic hydrocarbons at CSE TP-3 0-3 feet (337 ppm) and Duplicate 3/ CSE TP-3 0-3 feet (613 ppm) is 276 ppm. The average of the concentrations (337 ppm + 613 ppm is 950 divided by 2 is 475 ppm). The difference in concentration (276 ppm) divided by the average concentration (475 ppm) is 58%. However, the CAM indicates that the data must be less than or equal to 50%. As a result, the C11-C22 aromatic hydrocarbons analytical data for EPH/PAH soil samples obtained from the Site are technically considered unacceptable for the purpose of this Response Action Outcome. However, the disparity of sample concentrations may be attributed to a non-homogenous sample.

#### Chrysene

The difference between chrysene at CSE TP-3 0-3 feet (9.87 ppm) and Duplicate 3/ CSE TP-3 0-3 feet (16.4 ppm) is 6.53 ppm. The average of the concentrations (9.87 ppm + 16.4 ppm is 26.27 divided by 2 is 13.13 ppm). The difference in concentration (6.53 ppm) divided by the average concentration (13.13 ppm) is 49% falls within the 50% or less window. As a result, the chrysene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

#### Benzo(a)anthracene

The difference between Benzo(a)anthracene at CSE TP-3 0-3 feet (9.85 ppm) and Duplicate 3/ CSE TP-3 0-3 feet (15.7 ppm) is 5.85 ppm. The average of the concentrations (9.85 ppm + 15.7 ppm is 25.55 divided by 2 is 12.77 ppm). The difference in concentration (5.85 ppm) divided by the average concentration (12.77 ppm) is 45% falls within the 50% or less window. As a result, the Benzo(a)anthracene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

#### **Duplicate 4**

Common Sense submitted sample CSE TP-1 3-6 feet and a duplicate sample (Duplicate 4/ CSE TP-1 3-6 feet) for EPH and PAH analysis. Sample CSE TP-3 3-6 feet exhibited < 13.2 ppm C11-C22 aromatic hydrocarbons, <0.132 ppm benzo(a)anthracene and <0.132 ppm chrysene. Duplicate 4/ CSE TP-1 3-6 feet exhibited < 13.2 ppm C11-C22 aromatic hydrocarbons, 0.065 ppm benzo(a)anthracene and <0.132 ppm chrysene. MADEP requirements for Method 8270 Performance Standards for matrix duplicate Relative

Performance Difference (RPD) indicate that if the difference between the sample concentrations is less than five times the reporting limit then the data are acceptable.

#### C11-C22 aromatic hydrocarbons

The difference between C11-C22 aromatic hydrocarbons at CSE TP-1 3-6 feet (<13.2 ppm) and Duplicate 4/ CSE TP-1 3-6 feet (<13.2 ppm) is 0 ppm. The average of the concentrations is <13.2 ppm and the difference in concentration (0 ppm) divided by the average concentration (13.2 ppm) is 0%. As a result, the C11-C22 aromatic hydrocarbons analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

#### Chrysene

The difference between chrysene at CSE TP-1 3-6 feet (0.132 ppm) and Duplicate 4/ CSE TP-1 3-6 feet (0.132 ppm) is 0 ppm. The average of the concentrations is 0.132 ppm and the difference in concentration (0 ppm) divided by the average concentration (0.132 ppm) is 0% and falls within the 50% or less window. As a result, the chrysene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

#### Benzo(a)anthracene

The difference between Benzo(a)anthracene at CSE TP-1 3-6 feet (0.132 ppm) and Duplicate 4/ CSE TP-1 3-6 feet (0.130 ppm) is 0.002 ppm. The average of the concentrations (0.132 ppm + 0.130 ppm is 0.26 divided by 2 is 0.13 ppm). The difference in concentration (0.002 ppm) divided by the average concentration (0.13 ppm) is 1% and remains within the 50% window. As a result, the Benzo(a)anthracene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

#### **Groundwater Analyses**

The MADEP MCP Response Action Analytical Report Certification Form provided by GeoLabs indicates that all groundwater data in the report meet all the requirements for “Presumptive Certainty”, as described in Section 2.0 of the MADEP document CAM VII A, “Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data” for Methods EPH, 8082 and 6010B. As previously stated, the groundwater collected at CSE-1 for PCBs was not filtered prior to laboratory analysis. Further, no duplicate groundwater samples were collected as only one well was sampled. All other quality control performance standards were met for the aqueous samples and no other laboratory quality control observations were noted.

## Appendix G      Registry Certified AUL

NOTICE OF ACTIVITY AND USE LIMITATION

M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: Former Standard Times Site - Lot 3, 16 Blackmer Street, New Bedford, MA  
DEP Release Tracking No.(s): 4-15490

This Notice of Activity and Use Limitation ("Notice") is made as of this 5<sup>th</sup> day of March 2009, by the Commonwealth of Massachusetts Department of Fish and Game located at 251 Causeway Street, Suite 400, Boston, Massachusetts 02114, together with his/her/its/their successors and assigns (collectively "Owner").

WITNESSETH:

WHEREAS, the Commonwealth of Massachusetts Department of Fish and Game, is the owner in fee simple of that certain parcel of vacant land located in New Bedford, Bristol County, Massachusetts, pursuant to a deed recorded with the Bristol County Registry of Deeds (Southern District) in Book 7642, Page 344;

WHEREAS, said parcel 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 (Southern District) in Plan Book 148, Plan 92,

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 with the Bristol County Registry of Deeds (Southern District) in Plan Book 163, Plan 106, 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, one or more response actions have been selected 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 March 5, 2009 (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) Commercial and industrial activities and uses including, but not limited to, vehicular parking, pedestrian and vehicular traffic, passive recreation, landscaping, routine maintenance or any other use that does not compromise the structural integrity of the protective barrier, as defined in 3.(iv) and/or disturb contaminated soil located directly beneath the barrier;
- (ii) Excavation associated with emergency or short term (three months or less) underground utility and/or construction work, provided it is conducted in accordance with a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Notice; and involves the repair and/or replacement of the protective barrier with a comparable barrier immediately following the completion of the project;
- (iii) Activities and uses that are not identified by this Notice as being inconsistent with maintaining a condition of No Significant Risk; and
- (iv) Such other activities and uses which, in the Opinion of an I.SP, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

2. Activities and Uses Inconsistent with the AUL Opinion. Activities and uses that are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented at the Portion of the Property, 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) Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely
- (ii) Activities and/or uses which are likely to involve the removal and/or disturbance of the protective barrier in the AUL Area and/or

the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;

- (iii) Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and
- (iv) Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

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 Soil Management Plan must be prepared by an LSP and implemented prior to the commencement of any activity that is likely to disturb the contaminated soil located immediately beneath the protective barrier. The Soil Management Plan must be prepared in accordance with the guidelines discussed in the Activity and Use Limitation opinion attached hereto as Exhibit C;
- (ii) A Health and Safety Plan must be prepared and implemented in accordance with the guidelines discussed in the Activity and Use Limitation Opinion attached hereto as Exhibit C prior to the commencement of any activity that involves the removal and/or disturbance of the protective barrier and/or is likely to disturb the underlying contaminated soil within the AUL Area;
- (iii) The protective barrier within the AUL Area must be repaired and/or replaced with a comparable barrier to prevent future exposures to underlying contaminated soil immediately following the completion of any activity that involves its removal and/or disturbance;
- (iv) The protective barrier shall consist of either a minimum of 3-inches of asphalt pavement (or concrete), 3-feet of clean soil or a building
- (v) The protective barrier must be maintained within the designated AUL area to ensure that the contaminated soil located beneath the barrier remains inaccessible; and

- (vi) Annual inspections and associated record-keeping activities must be performed to confirm that the barrier is being properly maintained to prevent exposure(s) to contaminated soil located immediately beneath the protective barrier.

4. Proposed Changes in Activities and Uses. Any proposed changes in activities and uses at the Portion of the Property that 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 25<sup>th</sup> day of February, 2009.

Commonwealth of Massachusetts, Department of Fish and Game

Mary B. Griffin  
By: Mary B. Griffin  
Commissioner

COMMONWEALTH OF MASSACHUSETTS

Bristol, ss

February 25, 2009

On this 25<sup>th</sup> day of February, 2009, before me, the undersigned notary public, personally appeared Mary B. Griffin, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as Commissioner of the Commonwealth of Massachusetts Department of Fish and Game.



GLENDAL DILIPPO  
NOTARY PUBLIC  
Commonwealth of Mass.  
My Commission Expires  
October 31, 2011

Glenda L. DiLillo



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: March 5, 2009

Kevin Beaulieu  
Kevin J. Beaulieu, LSP

COMMONWEALTH OF MASSACHUSETTS

Bristol, ss

March 5, 2009

On this 5 day of March, 2009, before me, the undersigned notary public, personally appeared Kevin J. Beaulieu, 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 signed it voluntarily for its stated purpose as LSP for Commonwealth of Massachusetts Department of Fish and Game.



Upon recording, return to:

Commonwealth of Massachusetts Department of Fish and Game  
251 Causeway Street, Suite 400  
Boston, MA 02114



**EXHIBIT A**

(Description of Parcel of Land Containing Area Subject to AUI.)

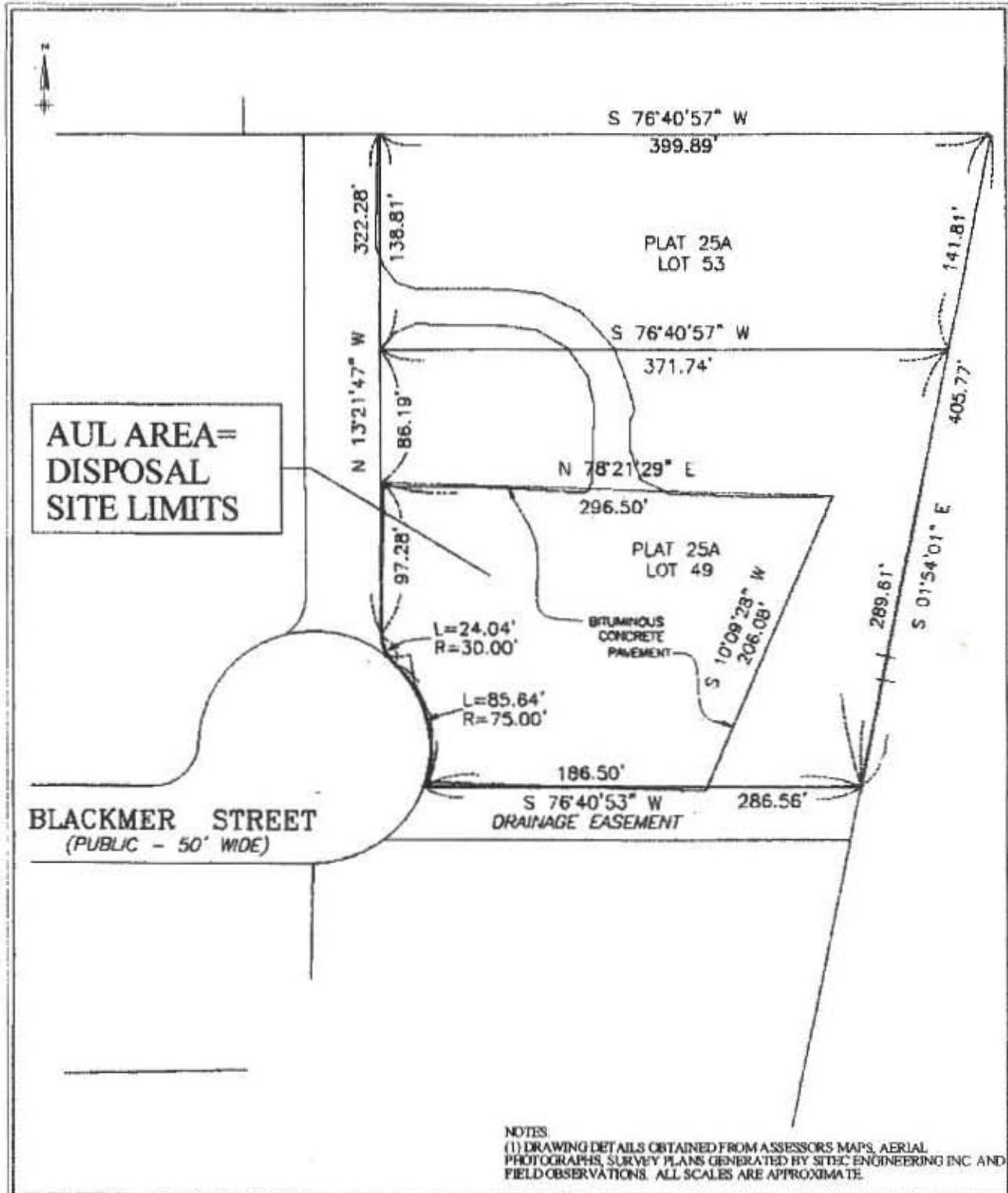
A certain parcel of land shown as Lot 3B on a Plan entitled "Approval Not Required Plan of Land located in New Bedford, MA prepared for City of New Bedford Redevelopment Authority", Scale 1"=60', dated November 21, 2001, prepared by Kenneth R. Ferreira Engineering, Inc., New Bedford, MA, recorded in the Bristol County Registry of Deeds in Plan Book 148 at Page 92, and being more particularly bounded and described as follows:

BEGINNING	at a point on the easterly side of a cul-de-sac of said Blackmer Street marking the southwest corner of the parcel herein described as shown on said Plan; thence
Northwesterly	on a curve to the left with a radius of 75.00 feet an arc distance of 85.64 feet by said cul-de-sac of Blackmer Street to a point as shown on said Plan; thence
Northerly	on a curve to the right with a radius of 30.00 feet an arc distance of 24.04 feet by said cul-de-sac of Blackmer Street and by Lot 2B to a point as shown on said Plan; thence
N 13° 21' 47" W	one hundred eighty-three and 45/100 (183.45) feet by said Lot 2B to a point marking the northwest corner of the parcel herein described and the southwest corner of Lot 3A as shown on said Plan; thence
S 76° 40' 57" W	three hundred seventy-one and 74/100 (371.74) feet by said Lot 3A to a point marking the northeast corner of the parcel herein described and the southeast corner of said Lot 3A as shown on said Plan; thence
S 01° 54' 01" E	two hundred eighty-nine and 61/100 (289.61) feet to a point as shown on said Plan; thence
S 76° 40' 53" W	two hundred ninety-six and 56/100 (296.56) feet to the PLACE OF BEGINNING, containing 95,197 square feet of land, more or less, as shown on said Plan.

**EXHIBIT A-1**  
(Description of Area Subject to AUL)

That certain portion of a parcel of land, said parcel of land being situated in New Bedford, Bristol County, Massachusetts, and being shown as Lot 3B on the aforementioned plan recorded with said Deeds in Plan Book 148, Page 92, said portion being shown as the "Activity and Use Limitation Area" on a plan entitled, "Activity and Use Limitation Plan of Land in New Bedford, MA", dated December 2, 2008, Scale 1"=40', prepared by SITEC, Inc., Dartmouth, Massachusetts, and recorded with the Bristol County Registry of Deeds in Plan Book 163, Page 106 and being more particularly bounded and described as follows:

BEGINNING	AT A POINT IN THE EASTERLY SIDELINE OF BLACKMER STREET, SAID POINT BEING THE SOUTHWEST CORNER OF THE PARCEL SHOWN AS LOT 3B ON PLAN RECORDED AT PLAN BOOK 148 PAGE 92 IN THE BRISTOL COUNTY REGISTRY OF DEEDS; THENCE
NORTHWESTERLY	ON A CURVE TO THE LEFT WITH A RADIUS OF 75.00 FEET AN ARC DISTANCE OF 85.64 FEET TO A POINT; THENCE
NORTHERLY	ON A CURVE TO THE RIGHT WITH A RADIUS OF 30.00 FEET AN ARC DISTANCE OF 24.04 FEET TO A POINT; THENCE
N 13°21'47" W	NINETY-SEVEN AND 28/100 FEET (97.28') TO A POINT; THENCE
N 78°21'29" E	TWO HUNDRED NINETY-SIX AND 50/100 FEET (296.50') TO A POINT; THENCE
S 10°09'28" W	TWO HUNDRED SIX AND 08/100 FEET (206.08') TO A POINT; THENCE
S 76°40'53" W	ONE HUNDRED EIGHTY-SIX AND 50/100 FEET (186.50') TO THE POINT OF BEGINNING, CONTAINING 47,368 SQUARE FEET OF LAND, MORE OR LESS.



DRAWN BY: KJB  
 PROJ. MGR: KJB  
 PROJECT NO: W024  
 SCALE: 1" = 100'  
 DATE: 12/04/08

**GRAPHICAL SCALE**

0 50 100 200

COMMON SENSE ENVIRONMENTAL, INC.  
 30 THERESA STREET  
 DARTMOUTH, MASSACHUSETTS 02748  
 PHONE: 508-991-3491

**SKETCH PLAN**

COMMERCIAL PROPERTY  
 16 BLACKMER STREET  
 NEW BEDFORD, MASSACHUSETTS

EXHIBIT:

**B**

**Exhibit C**  
**LSP Activity & Use Limitation Opinion**

In accordance with the requirements of 310 CMR 40.1074, this Licensed Site Professional (LSP) Opinion has been prepared in support of the Notice of Activity and Use Limitation (AUL) for a portion of the parcel of land identified on City of New Bedford Assessor's Plat 25A as Lot 49, and addressed as 16 Blackmer Street, New Bedford, Massachusetts (the Property). At the time of the recording of this AUL, the 2.185 acre parcel of vacant land is located within a working waterfront district zoned for industrial use. As illustrated in Exhibit B attached hereto, a large paved parking area occupies the southernmost portion of the Property. A City drainage easement abuts the southern Property line.

**Site History**

Multiple 21E investigations conducted at the Property have identified elevated levels of lead, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH's) in soil, likely attributable to the presence of historic urban fill emplaced along the New Bedford waterfront area. The Department of Environmental Protection (DEP) was notified of the release condition (lead and PAH), and Phase I and Phase II site investigations were completed at the site to define the extent and magnitude of contamination. The primary contaminant of concern was identified as lead and was detected at concentrations ranging from 42 mg/kg to 287 mg/kg in surface and subsurface soil (from 0 to 8 feet in depth) situated throughout the unpaved northern portion of the Property. Higher levels of lead were found in soil samples collected from the same depths beneath the currently paved southern portion of the Property at concentrations ranging from 30 to 5780 mg/kg. Other contamination detected above state reportable concentrations identified at the site generally mirrored the locations and trends exhibited by lead and specifically consisted of Benzo(a)pyrene at concentrations as high as 13 mg/kg; Dibenzo(a,h)anthracene at concentrations as high as 10 mg/kg; and petroleum hydrocarbons at concentrations as high as 900 mg/kg. Groundwater monitoring has adequately demonstrated that the release has not affected groundwater.

**Reason for Activity and Use Limitation**

A Method 3 Risk Characterization was prepared to support a Response Action Outcome for the site. The Risk Characterization concluded that No Significant Risk to human health, safety, public welfare, and the environment exists for activities and uses consistent with current commercial/industrial uses of the Property including emergency utility work and/or any construction projects. However, a level of No Significant Risk is not supported for future unrestricted activities and uses of the southern paved portion of the Property, such as those which may result in a child's exposure through direct contact with and/or ingestion of the contaminated soil. In order to maintain a level of No Significant Risk for future foreseeable site activities and uses, an Activity and Use Limitation is necessary to ensure that the soil currently located beneath the paved area located on the southern portion of the Property remains inaccessible and the exposure pathways remain incomplete. To that end, the Activity and Use Limitation will require the maintenance of the current pavement or other suitable physical barrier (including

buildings and concrete sidewalks) so that direct contact with underlying soils is not possible by visitors to the subject Property. In addition, activities which may result in the disturbance or relocation of the underlying soil to more accessible areas must also be restricted. The following presents said obligations and conditions as provided in the Activity and Use Limitation.

Permitted Uses and Activities

- (i) Commercial and industrial activities and uses including, but not limited to, vehicular parking, pedestrian and vehicular traffic, passive recreation, landscaping, routine maintenance or any other use that does not compromise the structural integrity of the protective barrier, as defined in 3.(iv) and/or disturb contaminated soil located directly beneath the barrier;
- (ii) Excavation associated with emergency or short term (three months or less) underground utility and/or construction work, provided it is conducted in accordance with a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Notice; and involves the repair and/or replacement of the protective barrier with a comparable barrier immediately following the completion of the project;
- (iii) Activities and uses that are not identified by this Notice as being inconsistent with maintaining a condition of No Significant Risk; and
- (iv) Such other activities and uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

Restricted Uses and Activities

- (i) Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely;
- (ii) Activities and/or uses which are likely to involve the removal and/or disturbance of the protective barrier in the AUL Area and/or the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;
- (iii) Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and
- (iv) Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

Obligations and Conditions

- (i) A Soil Management Plan must be prepared by an LSP and implemented prior to the commencement of any activity that is likely to disturb the contaminated soil located immediately beneath the protective barrier. The Soil Management Plan should describe appropriate soil excavation, handling, storage, transport, and disposal procedures and include a description of the engineering controls and air monitoring procedures necessary to ensure that workers and receptors in the vicinity are not affected by fugitive dust or particulates. On-site workers must be informed of the requirements of the Soil Management Plan, and the plan must be available on-site throughout the course of the project;
- (ii) A Health and Safety Plan must be prepared by a Certified Industrial Hygienist or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity which involves the removal and/or disturbance of the protective barrier and/or is likely to disturb the underlying contaminated soil, rendering it more accessible. The plan should clearly describe the location of the contaminated soil and specifically identify the types of personal protective equipment, monitoring devices, and engineering controls necessary to ensure that workers are not exposed to the contaminated soil through dermal contact, ingestion, and/or the inhalation of particulate dusts. Workers who may come in contact with contaminated soil within the designated AUL area must be informed of the location of the contamination and all requirements of the Health and Safety Plan. The plan must be available on-site throughout the course of the project;
- (iii) The protective barrier within the AUL Area must be repaired and/or replaced with a comparable barrier to prevent future exposures to underlying contaminated soil immediately following the completion of any activity that involves its removal and/or disturbance;
- (iv) The protective barrier shall consist of either a minimum of 3-inches of asphalt pavement (or concrete), 3-feet of clean soil or a building;
- (v) The protective barrier must be maintained within the designated AUL area to ensure that the contaminated soil located beneath the barrier remains inaccessible; and
- (vi) Annual inspections and associated record-keeping activities must be performed to confirm that the barrier is being properly maintained to prevent exposure(s) to contaminated soil located immediately beneath the protective barrier.



Kevin J. Beaulieu, LSP



March 5, 2009

Date



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC113A

**ACTIVITY & USE LIMITATION (AUL) OPINION FORM**

Release Tracking Number

Pursuant to 310 CMR 40.1066 & 40.1070 - 40.1084 (Subpart J)

4 - 15490

**A. DISPOSAL SITE LOCATION:**

1. Disposal Site Name: **LOT 3 - FORMER STANDARD TIMES SITE**

2. Street Address: **BLACKMER ST**

3. City/Town: **NEW BEDFORD**

4. ZIP Code: **02740-0000**

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

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  b. Yes If yes, then fill out address section below.

2. Street Address: **16 BLACKMER STREET**

3. City/Town: **NEW BEDFORD**

4. ZIP Code: **02719-0000**



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Release Tracking Number

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

4 - 15490

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 CMR 4.03(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 #: 1699

2. First Name: KEVIN J

3. Last Name: BEAULIEU

4. Telephone: (508) 863-3102

5. Ext:

6. FAX:

7. Signature: Kevin Beaulieu

8. Date: 03/05/2009  
mm/dd/yyyy



ATTEST: *mready*  
REGISTER

## Appendix H      Public Notification

September 19, 2006

Mr. Scott Alphonse, Director  
City of New Bedford  
Environmental Stewardship  
133 William Street, Room 311  
New Bedford, MA 02744

Re: Notice of Environmental Sampling at easement located south of  
16 Blackmer Street, New Bedford, MA  
Release Tracking Number: 4-015490

Dear Mr. Alphonse:

Common Sense Environmental, Inc., has prepared this letter to memorialize our multiple discussions relative to the results of recent environmental sampling programs completed at the above referenced project address. As you are aware, the 16 Blackmer Street property (Property) is presently owned by the Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries and has been the subject of multiple, historic site assessments to evaluate environmental conditions resulting from its commercial and historical use along the New Bedford waterfront. The subject Property was formerly owned by the New Bedford Redevelopment Authority and was part of the former New Bedford Standard Times Field Site. It is currently listed as a Tier II Waste Site (RTN 4-15490) with the Massachusetts Department of Environmental Protection (MADEP). In May 2006, shortly after purchase of the land, the Property owner contracted Common Sense to implement a Phase II Scope of Work at the subject Property in an attempt to define the limits and extent of previously identified contaminants. The result of the assessment allowed for the immediate and subsequent closure of the northern portion of the Property via a "partial" Class B1 Response Action Outcome, filed on July 31, 2006. A copy of the RAO can be reviewed at the MADEP Southeast Region, 20 Riverside Drive, Lakeville, Massachusetts. Please note that Kevin J. Beaulieu, is the Licensed Site Professional (LSP #1699) of Record for the subject Site.

During subsequent activities aimed at developing an Activity and Use Limitation for the southern portion of the Property it was realized that the southern easement is presently owned by the City of New Bedford. Common Sense first contacted you on August 7, 2006, immediately after realizing this fact and personally met with you on August 25, 2006 to explain the situation.

The intent of this correspondence is to comply with 310 CMR 40.1403(9) and 310 CMR 40.1404 and to serve as cover to the attached environmental data collected at the above easement owned by the City of New Bedford. One borehole (BH6), converted into a groundwater monitoring well (CSE-1,) and four (4) test pits were completed at the southeast corner of the easement owned by the City of New Bedford. The test pits surround the groundwater monitoring well. The soil and groundwater data generated at the City of New Bedford easement are summarized in the following tables and copies of laboratory data are attached. The attached BWSC Form 123 – Notice of Environmental Sampling will be included in the next report submittal to the MADEP.

**TABLE 1**  
**Soil Analysis Summary Table**  
 16 Blackmer Street, New Bedford, Massachusetts  
 Soil (mg/kg = parts per million)

Sample ID	Date	Depth	Lead	Extractable Petroleum Hydrocarbons			Asbestos	Coal Ash
				PCB's (Aroclor 1254)	C9-C18 Aliphatic	C19-C36 Aliphatic		
BH6	5/25/06	0.0-2.5 ft	nd	-	11.4	100	nd	-
BH6	5/25/06	2.5-5.0	nd	nd	329	108	-	Bituminous coal with some slag
BH6	5/25/06	5.0-7.5	nd	-	-	-	-	-
BH6A	6/12/06	2.5-6.0	nd	-	-	-	-	-
BH6B	6/12/06	2.5-6.0	209	-	-	-	-	-
BH6C	6/12/06	2.5-6.0	nd	-	-	-	-	-
BH6D	6/12/06	2.5-6.0	nd	-	-	-	-	-
Reportable Concentration S1			300	2	1000	2500	200	ns
Reportable Concentration S2			300	2	2500	5000	2000	ns
MCP Background - urban fill			600	ns	ns	ns	ns	ns

Notes: nd = not detected - = compound not analyzed ns = no standards  
 ( ) denotes compound detected above the most stringent (RCS1) MCP Reportable Concentrations

**TABLE 2**  
**Soil Analysis Summary Table**  
 16 Blackmer Street, New Bedford, Massachusetts  
 All results reported in (mg/kg = parts per million)

Sample ID	Date	Depth	PAH's																
			2-Methyl Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo-a-anthracene	Benzo-a-pyrene	Benzo-b-flouranthene	Benzo-g-h-i-perylene	Benzo-k-flouranthene	Chrysene	Dibenzo-ah-anthracene	Flouranthene	Flourene	Indeno-1,2,3-cd-pyrene	Naphthalene	Phenanthrene	Pyrene
BH6	5/25/06	0.0-2.5	nd	2.11	1.43	5.45	nd	nd	nd	nd	nd	nd	nd	47	2.98	nd	1.39	38.3	40.9
BH6	5/25/06	2.5-5.0	nd	0.222	0.538	1.18	6.05	nd	nd	nd	nd	nd	nd	18.4	0.649	nd	0.267	14.0	17.9
Reportable Concentration S1			4	20	100	1000	7	2	7	1000	70	7	0.7	1000	400	7	4	100	1000
Reportable Concentration S2			1000	2500	1000	2500	40	4	40	2500	2500	0	4	3000	2000	40	40	100	3000
MCP Background - urban fill			1	2	1	4	9	7	8	3	4	7	1	10	2	3	1	20	20

Notes:  
 nd = not detected  
 - = compound not analyzed  
 ns = no standards  
 ( ) denotes compound detected above the most stringent (RCS1) MCP Reportable Concentrations

**TABLE 3**  
**Groundwater Analysis Summary Table**  
 16 Blackmer Street, New Bedford, Massachusetts  
 All results reported in (ug/L = parts per billion)

Sample ID	Date	Extractable Petroleum Hydrocarbons					
		Dissolved Lead	PCB's (Aroclor 1254)	C9-C18 Aliphatic	C19-C36 Aliphatic	C11-C22 Aromatic	PAH's
CSE-1	5/28/06	nd	ns	nd	nd	nd	nd
Reportable Concentration GW1		20	0.3	1000	5000	200	var
Reportable Concentration GW2		10	0.3	1000	20000	30000	var
Notes:							
nd = not detected							
- = compound not analyzed							
ns = no standards							
denotes compound detected above the most stringent (RCSI) MCP Reportable Concentrations							

In general, you should be aware that the subject release appears to be related to the presence of urban fill located throughout the waterfront area and based on the above, extends onto the former easement presently owned by the City of New Bedford. Please note that several contaminants detected on your property exceed DEP promulgated risk based standards. However, on-going risk assessment evaluations (considering this data) and the development of feasible remedial or site closure strategies will be complete for the south area of 16 Blackmer Street in the next 2-3 months. As suggested during our recent discussions, incorporation of the former easement in the closure package is a viable possibility and Common Sense would be willing to discuss this potential with you or your environmental consultant at any time. You should be aware that based on the fact that the former easement was included within the boundaries of the former Standard Times Site (referenced above), it is thereby also linked to the current RTN for 16 Blackmer Street and will likely require some level of response action or assessment. In light of this, it may be in your best interest to pursue this option. Regardless of your decision, we would like to once again thank you for your time and patient understanding with respect to this issue.

Should you have any questions or require additional information, please feel free to contact this office at any time.

Sincerely,

For Common Sense Environmental, Inc.

*Cynthia S. Gilchrest 9/19/06*

Cynthia S. Gilchrest  
 President

Attachment: BWSC 123  
 Laboratory data



### NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**BWSC 123**

This Notice is Related to  
Release Tracking Number

4 15490

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: 16 Blackmer Street  
City/Town: New Bedford Zip Code: 02740

**B. This notice is being provided to the following party:**

1. Name: City of New Bedford/Environmental Stewardship  
2. Street Address: 133 William Street  
City/Town: New Bedford Zip Code: 02744

**C. This notice is being given to inform its recipient (the party listed in Section B):**

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: City of New Bedford south adjacent easement  
City/Town: New Bedford Zip Code: 02740

2. MCP phase of work during which the sampling will be/has been conducted:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediate Response Action              | <input type="checkbox"/> Phase III Feasibility Evaluation                   |
| <input type="checkbox"/> Release Abatement Measure              | <input type="checkbox"/> Phase IV Remedy Implementation Plan                |
| <input type="checkbox"/> Utility-related Abatement Measure      | <input type="checkbox"/> Phase V/Remedy Operation Status                    |
| <input type="checkbox"/> Phase I Initial Site Investigation     | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input checked="" type="checkbox"/> Other <u>RAO</u>                        |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential    commercial    industrial    school/playground    Other vacant easement  
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

One soil boring (BH-6) converted into a groundwater monitoring well (CSE-1) and four (4) test pits (BH6A, BH6B, BH6C AND BH6D) surrounding the groundwater monitoring well. Groundwater monitoring well is located at southeast corner of New Bedford easement.

**E. Contact information related to the party providing this notice:**

Contact Name: Cynthia Gilcrest @ Common Sense Environmental, Inc

Street Address: 50 Theresa Street

City/Town: South Dartmouth Zip Code: 02748

Telephone: (508) 991-3491 Email: csense@empire.net

## NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



An Affiliate of Severn Trent Laboratories, Inc.

Common Sense Environmental, Inc.  
50 Theresa Street  
South Dartmouth, MA 02748

Attention: Cynthia Gilchrest  
STL Job #: 760-605-0113  
Billing Ref.: Project# BH2, TP-1, BH6

June 5, 2006

Dear Cynthia:

Please find enclosed five (5) PLM digital photomicrographs, five (5) SEM digital photomicrographs and five (5) EDX spectra of the black material detected in the samples submitted for coal/coal flyash identification by SEM/EDX and PLM.

#### **METHODS:**

A portion of the samples were dried in a drying oven to remove moisture and then examined under a stereomicroscope. Several black grains, consistent in appearance to coal or coal flyash, were picked out of the dried soil samples. The black grains were ground into a powder with a mortar and pestle and mounted in index of refraction liquid ( $n=1.605$ ) on a glass slide for the Polarized Light Microscope (PLM) examination. Another portion of these black grains were mounted on double-sided tape and coated with evaporated graphite, which improves image quality. The samples were then examined under a Scanning Electron Microscope (SEM). An Energy Dispersive X-Ray (EDX) analysis was conducted during the SEM examination of these grains to determine their elemental composition. Photomicrographs were taken of the samples both by PLM and by SEM to document the morphology of the grains.

#### **FINDINGS:**

##### **BH2 4-6.5':**

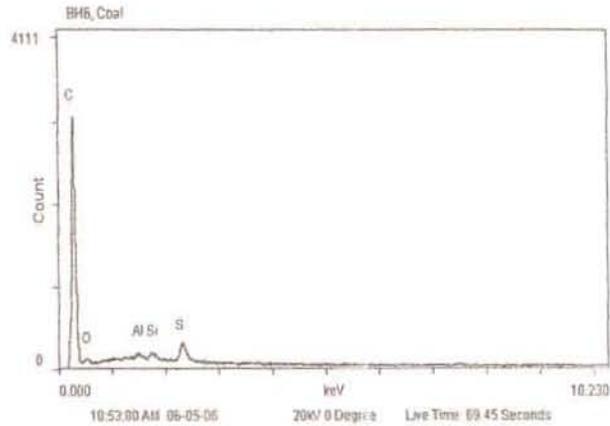
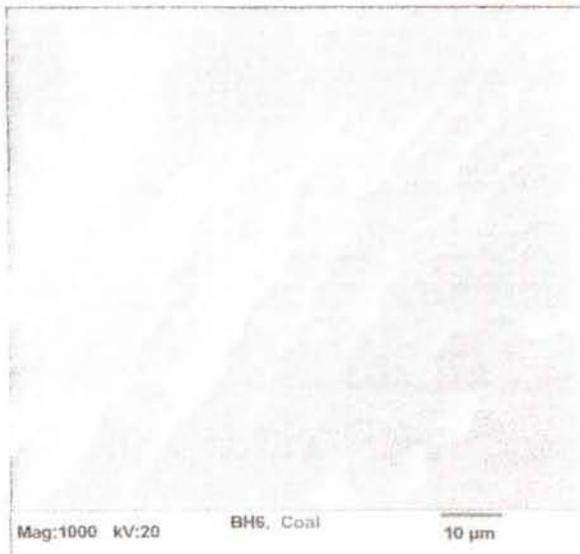
Please refer to the PLM and SEM photomicrographs as well as the EDX spectra. Two types of suspect particles were found in the first sample. The first particle type showed irregularly shaped opaque grains with an amber to black color and smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination, and showed mineral-like fragments with both rounded and sharp edges.

BH6 2.5-5':

Only one suspect particle type was observed in this sample. The particles showed irregularly shaped brown opaque grains smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination.



SEM examination demonstrated smooth surfaces marked by sharp, curved conchoidal fracture patterns along the surface of the sample. The EDX spectrum shows a very strong peak concentration of carbon, moderate to low peak concentration of sulfur, with lower amounts of oxygen, aluminum and silicon. The morphology and chemical composition of these grains are consistent with bituminous coal.



**DISCUSSION:**

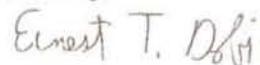
The EDX data, texture and morphology of the grains as seen by the PLM and SEM in sample BH2 was consistent for a moderate concentration of bituminous coal and a heavy loading of coal ash.

Sample TP-1 contained a moderate to heavy loading of bituminous coal, and a heavy concentration of coal ash.

There was a moderate concentration of bituminous coal in sample BH6 along with some slag.

If you have further questions or need additional information, please contact client services or me at any time.

Sincerely,



Ernest T. Dobi, Ph.D  
Manager, Microscopy Services

## **NOTICE OF ACTIVITY AND USE LIMITATION**

### **LOT 3 OF THE FORMER STANDARD TIMES SITE 16 BLACKMER STREET, NEW BEDFORD, MASSACHUSETTS RELEASE TRACKING NUMBER 4-15490**

A release of oil and/or hazardous materials has occurred at this location, which is a disposal site as defined by M.G.L. c. 21E, § 2 and the Massachusetts Contingency Plan, 310 CMR 40.0000. On March 9, 2009, the Commonwealth of Massachusetts Department of Fish and Game recorded with the Bristol County Registry of Deeds a NOTICE OF ACTIVITY AND USE LIMITATION (Book 9289, Page 7) on the disposal site, pursuant to 310 CMR 40.1070 through 40.1080.

The NOTICE OF ACTIVITY AND USE LIMITATION will limit the following site activities and uses on the above property:

- Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely
- Activities and/or uses which are likely to involve the removal and/or disturbance of the protective barrier in the AUL Area and/or the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;
- Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and
- Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

Any person interested in obtaining additional information about the NOTICE OF ACTIVITY AND USE LIMITATION may contact Mary B. Griffin, Commissioner of the Commonwealth of Massachusetts Department of Fish and Game located at 251 Causeway Street, Suite 400, Boston, Massachusetts 02114.

The NOTICE OF ACTIVITY AND USE LIMITATION and the disposal site file can be reviewed at the MassDEP, Southeast Regional Offices, 20 Riverside Drive, Lakeville, Massachusetts (508) 946-2700.

## Kevin Beaulieu

---

**From:** Cynthia Gilchrest [comsenseenv@comcast.net]  
**Sent:** Thursday, March 26, 2009 4:38 PM  
**To:** Kevin Beaulieu - Bus.  
**Subject:** Fw: confirmation for ad request

----- Original Message -----

**From:** [Leger, Luiza](#)  
**To:** [Cynthia Gilchrest](#)  
**Sent:** Thursday, March 26, 2009 4:27 PM  
**Subject:** RE: confirmation for ad request

I have the ad scheduled to appear in The Standard-Times under the legal notice classification as a line ad on Tuesday, March 31st. Thank you, Luiza 508-979-4351

-----Original Message-----

**From:** Cynthia Gilchrest [mailto:comsenseenv@comcast.net]  
**Sent:** Thursday, March 26, 2009 4:00 PM  
**To:** Leger, Luiza  
**Subject:** confirmation for ad request

Hello:

Would you please send a confirmation that the legal ad will run on 3/31?

Thank you,  
Cynthia

----- Original Message -----

**From:** [Cynthia Gilchrest](#)  
**To:** [lleger@s-t.com](mailto:lleger@s-t.com)  
**Sent:** Wednesday, March 25, 2009 12:15 PM  
**Subject:** ad request

Hello:

Attached is the language for the legal ad we discussed. Please call or email with the estimate. I would like it to run early next week.

Thank you!  
Cynthia Gilchrest  
Common Sense Environmental, Inc. - DBE/WBE  
50 Theresa Street  
South Dartmouth, MA 02748  
Telephone: 508-991-3491  
Fax: 508-992-5039

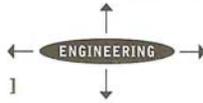
Note new email address: [comsenseenv@comcast.net](mailto:comsenseenv@comcast.net)  
Please consider the environment before printing this email

**END OF REPORT**

# Environmental Safety Health Geotechnical

O'Reilly, Talbot & Okun

[ A S S O C I A T E S ]



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October 30, 2008  
File No: 5072-01-02

**Prepared for:**

Common Sense Environmental, Inc.  
50 Theresa Street  
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METHOD 3 RISK CHARACTERIZATION

**Map 25A, Lots 49 and 53**

**16 Blackmer Street**

**New Bedford, Massachusetts**

RTN 4-15490

**Prepared by:**

O'Reilly, Talbot & Okun Associates, Inc.  
19 West Main Street, Suite 205  
Westborough, Massachusetts 01581

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## 1.0 INTRODUCTION

This Method 3 risk characterization has been prepared by O'Reilly, Talbot & Okun Associates, Inc. (OTO) to assess whether oil and/or hazardous material (OHM) at the property located at 16 Blackmer Street in New Bedford, Massachusetts (the "Property") pose a Condition of No Significant Risk within the meaning of the Massachusetts Contingency Plan (MCP 310 CMR 40.0990). Specifically, the MCP disposal site (the "Site") is defined as the Property depicted on Assessors Map 25A, Lots 49 and 53 and was previously known as Lot 3 of the former New Bedford Standard Times Field Site.

In July 2006, Common Sense Environmental, Inc. (Common Sense) submitted a Partial Class B1 Response Action Outcome (RAO) for the northern portion of the Site. Historic assessment activities completed on this portion of the Site identified urban fill materials, containing wood, cinders, asphalt, coal, and coal ash. Concentrations of lead and polycyclic aromatic hydrocarbons (PAHs) identified in these materials were attributed to coal ash, which was laboratory confirmed. Polychlorinated biphenyls (PCBs) and extractable petroleum hydrocarbons (EPH) were also identified in soils in the northern portion of the Site. No point sources for the detected contaminants were identified, other than coal ash and fill material. In the Partial B1 RAO, a Method 2 Risk Characterization was completed to demonstrate a Condition of No Significant Risk for the northern portion of the Site.

For the southern portion of the Site, investigations also reported the presence of lead, PAHs, PCBs, and EPH; and the presence of fill material with laboratory confirmed coal ash. However, surficial soils (0-3 feet below ground surface (bgs)) contained concentrations of lead (up to 3,640 mg/kg) that exceeded MCP reportable concentrations for soil category S-2 (RCS-2) and Method 1 S-1, S-2, and S-3 standards. Therefore, a Method 3 Risk Characterization has been completed for the Site.

Three methods for Risk Characterization under the MCP, which vary in detail and circumstances of use, have been developed to evaluate a disposal site, as described in 310 CMR 40.0941(3) and 40.0942. These three methods provide equivalent levels of protection to health, public welfare, and the environment. A Method 3 approach is considered applicable for this Site because Site-specific methodologies (e.g., exposure assumptions concerning Site use) have been used. As defined in 310 CMR 40.0990, a Method 3 Risk Characterization evaluates the risks to human health, public welfare, safety, and the environment for all current and reasonably foreseeable future Site activities and uses.

The Method 3 risk characterization has been completed in accordance with the MCP, 310 CMR 40.0900, and applicable Massachusetts Department of Environmental Protection (MA DEP) guidance (MA DEP, 1992 through 2008). In the Method 3 Risk Characterization, human health risks for the Site are assessed in Section 2.0 of this report. Risk of harm to public welfare, including comparisons to Upper Concentration Limits (UCLs), is presented in Section 3.0. Characterization of risk of harm to safety is described in Section 4.0. The environmental risk characterization can be found in Section 5.0. Section 6.0 presents conclusions regarding the overall significance of Site risk.

The Method 3 is based on information and analytical data collected at the Site and provided to OTO by Common Sense. Site history and background information are summarized in the Common Sense *Phase II Comprehensive Site Assessment, Phase III Feasibility Analysis & Class A3 Response Action Outcome* (Common Sense, 2008). OTO has not conducted independent testing or Site characterization activities and has relied on the Common Sense supplied information to provide adequate characterization of the nature and extent of Site contamination as defined in the MCP.

### 1.1 Site History and Investigations

The Site Property was previously owned by the New Bedford Redevelopment Authority and was subsequently purchased by the Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries on July 6, 2005.

The Site Property was a vacant and undeveloped space circa 1930's to 2008. The Property has been vacant since the 1930s, following demolition of mill buildings that occupied the Property and surrounding vicinity from the 1880s to the 1930s. It is currently partially (southern portion) improved by an asphalt binder-covered parking lot, which is enclosed by a chain link fence.

The subject Property was formerly the northeastern portion of the 25.5 acre Standard Times Field Site. The Site consists of 3.41 acres and is located at the east termination of Blackmer Street.

In 1999 and 2000, Metcalf & Eddy, Inc. (M&E) completed Brownfields Targeted Site Assessments (BTSA's) for the overall 25.5 acre Standard Times Field Site. M&E staff observed an area of stained gravel with stressed vegetation, coal ash, and capacitor debris in the southwest Property area. Field observations of the Property and surrounding area included evidence of solid waste disposal, empty automotive, and boat fuel tanks and tires located 50 feet south of the Property. In addition, mounds and ditches of excavated earth, boulders, and building demolition debris (brick, concrete, tile, roofing material and asphalt) were observed throughout the remainder of the subject Property area. An off-Property area of stressed vegetation was observed to the north, in the approximate location of above referenced former gasholder. A former 150,000-gallon oil storage tank was also reportedly located approximately 700 feet to the southwest of the Property.

With respect to their assessment findings on the subject Property (Lot 3), M&E surface soil sampling results detected concentrations of individual PAHs and lead exceeding MCP reportable concentrations (RCs) in Site soil (11 mg/kg of benzo(a)pyrene and 3,640 mg/kg of lead) at the south central area of the Property (Tables 1A and 1C). Urban fill was noted in soils, as well as capacitor debris and coal ash (Table 1B). Polychlorinated biphenyls (PCBs) were detected in groundwater at concentrations exceeding RCs.

These findings resulted in the listing of the subject Property as a release site with MA DEP as Release Tracking Number (RTN) 4-15490. Accordingly, M&E recommended that further investigation be conducted to confirm the presence of these compounds, and to further evaluate the extent of the contamination.

In 2001, Cygnus Group, Inc. (Cygnus) completed a "Phase I: Initial Property Investigation and Tier Classification (RTN 4-15490), Lot 3 at Blackmer Street". As part of this Phase I Investigation, Cygnus Group collected soil samples at the Site between zero and six feet below grade in March and May 2000. Soil samples CSS-1 through -5, CSS-500 (duplicate of CSS-2), CGW1/S3, TP-1 through TP-8, and TP-X (duplicate of TP-5) were collected from boring or test pits in the northern and southern portions of the Site. The soil samples were analyzed for EPH fractions and target analytes (PAHs), PCBs, coal ash, asbestos containing materials (ACM), and/or lead.

The concentrations of a number of PAHs in soil samples from the southwestern portion of the Site exceeded the MCP reportable concentrations for the S-2 soil category (RC2) (Table 1A). ACM was not analyzed for in the soil samples (Table 1B). PCBs (Aroclor 1254) were not detected (Table 1B). The concentrations of lead in soil samples from the southern portion of the Site exceeded the MCP RCS-1 and RCS-2 (Table 1C).

In March 2000, Cygnus Group collected a groundwater sample and duplicate from monitoring well CGW-1. The sample was analyzed for EPH, PCBs, and pesticides. No analytes were detected (Table 2).

In May 2006, Common Sense completed a Phase I Completion Statement/Tier II Classification. In May and June 2006, boring and test pit soil samples were collected by Common Sense at the Site. The boring soil samples were collected from locations BH1, BH2, and BH6. The test pit soil samples were collected from TP-1 through TP-3, and BH-6A, BH-6B, BH-6C, and BH-6D. It is noted that samples BH-6A, BH-6B, BH-6C, and BH-6D were collected from the City of New Bedford drainage easement and are not part of the MCP disposal Site. The boring and test pit samples were collected from depths ranging from zero to 7.5 feet below grade and analyzed for EPH fractions, PAHs, asbestos, PCBs, and/or lead.

The concentrations of two higher molecular weight PAHs (i.e., benzo(a)anthracene and chrysene), and lead exceeded MCP RCS-2 (Tables 1A and 1C). Two of the Site samples (BH2 4-6.5', and CSE TP-1 0-3') were microscopically analyzed for the presence of coal and coal ash. Coal ash was identified in these two samples (Table 1A). ACM was not detected (Table 1B). PCBs (Aroclor 1254) were detected in several samples at concentrations below the MCP RCS-2 (Table 1B). The concentrations of lead detected in a number of samples from the southern portion of the Site exceeded the MCP RCS1 and RCS-2 (Table 1C).

Fill material was consistently observed in soil horizons at the Site from 0 to 5 feet below grade. Common Sense preliminarily concluded that the source of C11-C22 aromatics is fill materials containing asphalt particles and/or demolition debris (i.e., roofing or sealants). No point source for hydrocarbon impact was identified.

No source for a PCB release was identified during the Common Sense investigation. Microscopic analysis confirms the presence of coal ash at the Site, which is a potential source of PAHs and lead.

Common Sense completed three of the May 2006 borings (BH1, BH2, and BH6) into groundwater monitoring wells (CSE-2, CSE-3, and CSE-1, respectively). Groundwater samples were collected from these monitoring wells using low-flow techniques. No measurable thickness of nonaqueous phase liquid (NAPL) was encountered. The collected samples were analyzed for EPH fractions, PAHs, PCBs, and dissolved lead.

No analytes were reported above the method reporting limit, except for PCB Aroclor 1254 (Table 2). This PCB was detected at concentrations of 0.871, 0.72, and 0.83 ug/L, respectively. These concentrations are above the applicable MCP Method 1 GW-3 standard of 0.3 ug/L. However, the samples were not filtered prior to laboratory analysis.

It is notable that PCBs are not typically solvent and detections in water samples are most commonly associated with suspended particulates. In further support of this statement, the detected concentrations exceed the water solubility value of 0.277 mg/L for PCBs. As this value represents the maximum possible concentration of a chemical compound dissolved in water, it is clear that these detections are attributable to particulates present in the sample.

In order to technically support this supposition, a well (CSE-2), located on the northern portion of the Site, was re-sampled on July 27, 2006 to evaluate for dissolved concentrations. Due to the fact that available guidance does not clearly support filtering of groundwater samples for PCB analysis, two samples were extracted from the well for reanalysis. One of the two samples (CSE-2A) was decanted to allow for settlement of suspended solids and the second (CSE-2B) was laboratory filtered. Both samples were analyzed for PCB analysis and found to contain non-detectable levels.

Accordingly, the concentrations of PCBs detected in groundwater during this sampling event are discounted based on the presence of suspended solids. Furthermore, based on the fact that the abutting New Bedford Harbor is a listed NPL Site due to the presence of PCB contamination sourcing from known upstream industrial activities, it is evident that local background conditions for PCB contamination would exceed the levels detected on the subject Site and may even be the source for said detection. Therefore, the PCB groundwater data for CSE-1, -2, and -3 are discounted and not considered further in this Method 3 Risk Characterization.

The Phase II Assessment review of Site data for the southern and northern portions of the Site revealed that the northern portion of the release Site (approximately 2.41 acres) exhibited comparatively lower contaminant concentrations with respect to the southern portion. Due to the fact that the current Property owner intended to construct a paved parking lot and enclose with fencing the southern portion of the Property, it was concluded by Common Sense that the northern portion of the release Site was eligible for a “partial” RAO based on a Method 2 Risk Characterization. A subsequent MA DEP audit of the filed RAO report concluded that although some technical deficiencies were identified and addressed, no further response actions were deemed necessary for the northern portion of the Property.

A Release Abatement Measure (RAM) Plan was prepared by Common Sense to facilitate the construction of the paved lot over the southern area of the subject Property as a response action. The placement of an asphalt lot was recommended as a response to facilitate the implementation of an Activity & Use Limitation (AUL) and ultimate Site closure via a Class A3 RAO.

The objective of the Method 3 Risk Characterization is to determine if concentrations of OHM at the Site represent a Condition of No Significant Risk under current and foreseeable future Site Conditions. The soil data used in the risk characterization are presented in Tables 1A, 1B, and 1C. The groundwater data are presented in Table 2.

## **2.0 HUMAN HEALTH RISK ASSESSMENT**

### **2.1 Current and Reasonably Foreseeable Future Site Use**

The Site is approximately 3.41-acre in size. The Site is located at the east termination of Blackmer Street in a heavily developed commercial, light industrial, and residential section of New Bedford. The Site is located on land zoned as “Industrial B” and is within the “Working Waterfront Overlay District” designated by the City of New Bedford. A variety of industrial uses are permitted in industrial B zones. The “Working Waterfront Overlay District” is intended for use of marine-related industrial activities (e.g., fish processing or related activities).

The Site is currently vacant and owned by the Commonwealth of Massachusetts/ Department of Fish and Game/Division of Marine Fisheries. The southern portion of the Property has been partially converted to a paved parking lot and enclosed with a chain-link fence. The remaining Property area is covered by graded soil and mature vegetation. The Property potentially will be developed for office or commercial use in the future.

The Site building is serviced by municipal water and sewer systems. Electricity service is provided to the area by overhead cables along South First Street and by underground cables along Blackmer Street. Natural gas, municipal water, storm sewer, and drinking water are available to the Site via subsurface utilities located along Blackmer Street.

Storm drains also exist along Silva Street. The associated storm water outfall is located east of the Site in New Bedford Inner Harbor.

The source of drinking water for the City of New Bedford is Little Quittacas Pond in Rochester, Massachusetts, located approximately 11.5 miles north of the Site. According to an interview with the New Bedford Board of Health, there are no known public or private drinking water wells within 500 feet of the Site.

Based on 2000 census data contained in the Environmental FirstSearch report, New Bedford has a population density of nearly 12,163 persons per square mile. The nearest Massachusetts protected open space is Ben Rose field located approximately 500 feet to the southwest of the Site. As defined under 310 CMR 40.0006, there are no schools, daycare centers, hospitals, or nursing homes located within 500 feet of the Site.

Adjacent land use includes the New Bedford Radio, Inc., antenna tower at the north abutting lot. Blackmer Street, beyond which is a recently constructed Fresh Express Seafood packaging plant, abuts the Property to the west. The south abutting lot consists of a 30-foot unimproved easement owned by the City of New Bedford, beyond which is Fleet Fisheries fish packaging plant. The Site is bordered to the east by the New Bedford Harbor. The Acushnet River flows south to the New Bedford Inner Harbor. Lots 49 and 53 are located within the 100- and 500-year flood zones.

Historic environmental assessment reports completed by others indicate that the Site Property and abutting lots are all portions of the former New Bedford Standard Times Site and have reportedly been undeveloped open space since the 1930s.

### 2.1.1 Soil and Groundwater Categories

Categories for soil and groundwater have been developed by the MA DEP to facilitate the characterization of risk at MCP sites. The identification of applicable groundwater and soil categories at the Site has been conducted in accordance with 310 CMR 40.0993(2).

#### Soil Category

Identification of the applicable soil category requires an assessment of three factors identified in 40.0930 of the MCP.

These are accessibility, frequency of use, and intensity of use. Each of these factors must be assessed for the current use scenario and for a reasonably foreseeable future use scenario.

Soils with detected concentrations of constituents are located at depths ranging from zero to 7.5 feet below ground surface (bgs) in unpaved and paved areas. As defined in the MCP, the unpaved surficial soils located from zero to three feet bgs are categorized as being “accessible”. The soils located from 3 to 7.5 feet bgs in unpaved areas, and 0 to 7.5 feet in paved areas are considered to be “potentially accessible” for exposure.

The southern portion of the Site is currently fenced, which would limit access to soils by trespassers. However, fencing is not considered to be part of a “permanent solution” under the MCP to achieve a Condition of No Significant Risk.

The Site is currently vacant, but has been redeveloped as a paved parking lot. It is possible that an office or commercial building will eventually be constructed at the Property. The frequency of use at the Site by trespassers and the general public, including children, is considered low to high and intensity of use is low under these future conditions.

Under future use of the Site for an office or commercial building, the frequency of use by Site workers is assumed to be high and the intensity of use is assumed to be low.

Construction and utility work could potentially occur at the Site during the installation, repair, or upgrade of a facility and/or utilities. The frequency of this activity is considered low, and the intensity of use is considered high (i.e., short-term excavation activities occurring at infrequent and irregular intervals).

Given this set of circumstances, the applicable soil category for the soils at the Site is S-2 and S-3 under current conditions. In the future, it is anticipated that the Site may be used as a possibly as an office or commercial building and the soil category would be S-2 and S-3. However, an S-1 category has been assumed for unlimited future Site use in order to evaluate the need for an AUL.

### Groundwater Category

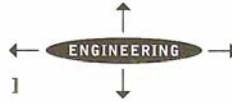
MA DEP has identified three groundwater exposure categories (GW-1, GW-2, and GW-3) under the MCP, each reflective of a type of risk that may be posed by OHM in groundwater. Different combinations of these criteria are applicable at sites depending upon the groundwater resource characteristics.

### GW-1

The GW-1 category is applicable to locations where groundwater is, or may in the future be, a drinking water source. Municipal water is available to the Site.

According to the MA DEP BWSC Geographic Information System (GIS) Site Scoring map, the Site is not located within any of the following features:

1. Potentially Productive Aquifer (PPA),
2. Interim Wellhead Protection Area (IWPA),
3. Approved Zone II of a Public Water Supply,
4. Zone A of a Class A Surface Water Body, and
5. An area designated by a municipality specifically for the protection of groundwater quality to ensure its availability for use as a source of potable water supply.



According to the New Bedford Board of Health, there are no private drinking water wells known to exist within one-half mile of the Site. Based on this information, the GW-1 groundwater category is not considered to be applicable to the Site.

### GW-2

The GW-2 category applies to locations where OHM may volatilize from the groundwater and migrate into an occupied structure. Wells with an average annual depth to groundwater of 15 feet or less below ground surface (bgs) and located within 30 feet of a currently occupied or future planned building meet the criteria of GW-2. The depth to groundwater within the disposal Site ranges from approximately 4.84 to 7.18 feet bgs.

The Site is currently vacant, with a paved parking lot on the southern portion of the Site. However, it is possible that an office or commercial building will eventually be constructed on the Property. Therefore, the GW-2 category is conservatively assumed to apply to groundwater at the Site.

### GW-3

The GW-3 category is intended to protect environmental receptors in surface water that may be exposed to OHM when groundwater discharges to surface water. For all MCP sites, the GW-3 groundwater category is applicable. There are no surface water bodies present on the Site. Groundwater flows across the Site in a southeasterly direction.

The nearest surface water body is the abutting Acushnet River, which flows south to the New Bedford Inner Harbor. New Bedford Inner Harbor is a designated Class SB surface water body with restricted shell fishing and is impacted by Combined Sewer Overflows according to the Massachusetts Surface Water Quality Standards. A Class SB surface water body is suitable as a habitat for fish and other aquatic life, and for primary and secondary contact recreation such as swimming and boating.

Given this set of circumstances, the applicable groundwater categories for the Site are GW-2 and GW-3.

#### 2.1.2 Background Concentrations

EPH fractions, PAHs, PCBs, and lead were the constituents detected in soil. MA DEP has not formally established background concentrations for these constituents in soil, except for PAHs and lead. Therefore, in this risk characterization, it is assumed that background concentrations for other constituents in soil and groundwater are the respective method reporting limits.

Seventeen PAHs were detected in the soil samples (Tables 1A). According to the microscopic analysis of two soil borings samples, coal and coal ash are present in fill material. Fill material containing coal/wood ash may be defined as “background” for the purposes of conducting a risk assessment as described in 310 CMR 40.0006.

If related to coal ash or wood ash associated with fill material, the soil PAH concentrations would meet the definition of “background” as defined in the MCP, and do not require remediation under the MCP, even if such concentrations would otherwise pose a significant risk of harm to health, safety, public welfare or the environment (MADEP, 2002a).

However a number of the PAHs were detected at concentrations that exceed the MA DEP identified background concentrations in soil containing coal ash or wood ash associated with fill material. Therefore, each of the PAHs are selected as constituents of concern (COCs) for the north and south areas of the Site, and carried through the risk characterization.

Lead was detected in soil samples collected at depths ranging from zero to 7.5 feet bgs. The concentrations of lead in a number of samples in the south area exceeded the MA DEP background concentration in soil containing coal ash or wood ash associated with fill material (600 mg/kg) (MA DEP, 2002e). Therefore, lead is considered to be a soil COC for this south area of the Site and is carried through the risk characterization.

## 2.2 Hazard Identification

### 2.2.1 Identification of Constituents of Concern

#### Soil

Soil data were collected at the Site by Metcalf & Eddy in 1999 and 2000, Cygnus in March and May 2000, and by Common Sense in May and June 2006 (Tables 1A, 1B, and 1C).

The three EPH fractions (C9-C18 aliphatics, C19-C36 aliphatics and C11-C22 aromatics), seventeen PAHs, PCBs (Aroclor 1254), and lead were the constituents detected in soil at the Site. These are the soil COCs for the southern portion of the Site. EPH and PAHs are the soil COCs for the northern portion of the Site.

#### Groundwater

No analytes were detected in groundwater that are considered to be representative of dissolved constituents.

### 2.2.2 Toxicity Profiles

Toxicity profiles describe the potential human health effects posed by the constituents of concern, when doses are high enough to elicit an effect. Toxicity profiles for the constituents of concern are included in Appendix A.



### 2.2.3 Identification of Applicable or Suitably Analogous Standards

Applicable or suitably analogous standards are formally promulgated standards intended to protect human health and the environment from adverse effects of hazardous agents. Such standards are media-specific.

There are no applicable or suitably analogous soil standards available for Site COCs. In accordance with MA DEP policy, MCP Method 1 risk characterization standards are not considered to be applicable or suitably analogous standards for Method 3 risk assessments.

Federal and state drinking water standards are not applicable or suitably analogous standards for this Site, because groundwater at the Site is not classified as GW-1.

### 2.3 Dose-Response Assessment

Dose-response information describes the health effects observed in humans or animals associated with particular doses of a chemical. Based on the observed effect and target organ identified, a numerical value is developed to estimate the magnitude of the health effect associated with a dose. Dose-response values are derived differently for non-carcinogenic and carcinogenic effects, as discussed below.

The sources of dose-response information for compounds detected at this Site were US EPA's on-line Integrated Risk Information System (IRIS) database (EPA, 2008), US EPA's Health Effects Assessment Summary Tables (HEAST) (EPA, 1997a) and MA DEP documents (MA DEP, 2008).

#### 2.3.1 Threshold (Non-carcinogenic) Effects

For non-carcinogenic effects, there is believed to be a threshold level below which no adverse health effects will occur. Dose-response values for non-carcinogenic oral effects are referred to as Reference Doses (RfDs). For inhalation effects, these values are referred to as Reference Concentrations (RfCs). RfDs and RfCs represent EPA's provisional estimate (with uncertainty spanning perhaps an order of magnitude) of the threshold dose that will not pose risk of an adverse health effect to sensitive humans.

RfDs and RfCs are developed by applying uncertainty factors and modifying factors to the critical dose or concentration. This dose or concentration is usually either the Lowest-Observed-Adverse-Effect Level (LOAEL) or the No-Observed-Adverse-Effect Level (NOAEL) from toxicological studies, typically carried out on test animals.

Uncertainty factors are used to account for interspecies variability, variation in sensitivity within the human population, differences in the route of administration among tests, and other variables that may lend uncertainty to the extrapolation of test data to environmental settings.

Units for RfDs are mg/kg/day, representing a dose of chemical (in milligrams) per receptor body weight (in kilograms) per day. For inhalation exposures, the RfC value is expressed as a concentration in air in  $\mu\text{g}/\text{m}^3$  for continuous, 24 hour/day exposure.

Oral RfDs and inhalation RfCs for the soil COCs are summarized in Table 3.

### 2.3.2 Non-threshold (Carcinogenic) Effects

In accordance with MCP guidance, it has been assumed that for carcinogenic effects there is no threshold level; that is, every non-zero exposure to a carcinogen is believed to be associated with some increased incremental risk. Dose-response values derived for carcinogenic compounds are Cancer Slope Factors (CSFs).

CSFs are calculated as the largest linear slope of the dose-response curve, which is generally extrapolated from the low-dose end of the curve. CSFs are expressed in  $(\text{mg}/\text{kg}/\text{day})^{-1}$ , and assume that the received dose is averaged over a lifetime.

EPA's weight-of-evidence cancer classifications for each of the COCs were compiled. These classifications indicate whether existing human and animal data are sufficient to confirm whether there is an association between exposure to the compound and the occurrence of cancer.

No COC has a weight-of-evidence classification of Group A (i.e., Human Carcinogen - sufficient evidence in epidemiological studies to support causal association between exposure and cancer in humans). The carcinogenic PAHs, PCBs, and lead have a classification of Group B2 (i.e., Probable Human Carcinogen). One compound, naphthalene, has been given a weight-of-evidence cancer classification of Group C (Possible Human Carcinogen - inadequate or lack of human data and limited evidence of carcinogenicity in animals). The remaining detected compounds have been given a classification of D (i.e., Not Classifiable - inadequate or no human and animal evidence of carcinogenicity) or a classification is not available (NA).

Carcinogenic values for inhalation exposures, called unit risks, are calculated by dividing the slope factor by the body weight (70 kg) and multiplying by the air inhalation rate ( $20 \text{ m}^3$ ) for risk associated with unit concentration in air. Multiplication by  $10^{-3}$  is necessary to convert mg (milligrams) to  $\mu\text{g}$  (micrograms).

Dose-response information for carcinogenic effects associated with soil COCs are summarized in Table 3.

### 2.3.3 Relative Absorption Factors

Relative absorption factors (RAFs) are used to account for the differences in absorption likely to occur between exposures under Site conditions and those that occurred under the experimental conditions that form the basis of the toxicity values.

Absorption differences may result from matrix effects (e.g., doses absorbed from soil versus water) as well as from routes of administration (e.g., oral versus dermal exposure). RAFs adjust the calculated Site dose to make it comparable to the available toxicity information.

RAFs used in this risk assessment are presented in Table 4 and were adopted from MA DEP (2008), when available. In the absence of compound-specific data for inhalation exposures, a default RAF of 1 was used.

## 2.4 Exposure Assessment

The objectives of the Exposure Assessment are to:

1. Qualitatively and quantitatively describe the settings and conditions under which human exposures to Site OHM may reasonably be expected to occur, and
2. Calculate doses of Site OHM that human receptors may receive.

Achieving these goals entails the identification of receptors that may be on-Site, evaluation of exposure pathways, and the calculation of Exposure Point Concentrations (EPCs) to which receptors may be exposed.

### 2.4.1 Development of Exposure Profiles

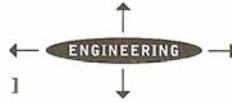
Exposure profiles provide a narrative description of how exposures may take place at the Site. The profiles identify factors related to potential exposures and estimate their magnitude. These factors include variables such as the receptors' body weights, intake rates, frequency of exposure, and duration of exposure.

Exposure profiles are provided for each receptor identified under current and foreseeable future uses of the Site, including unrestricted residential use of the Site in order to evaluate the need for an AUL as required under the MCP.

#### 2.4.1.1 Identification of Potential Human Receptors and Exposure Points

Exposure points represent the locations where human or ecological receptors may come into contact with OHM at a site. These locations may be either single discrete points or areas/zones of affected media.

Potential human receptors were identified based on the current and foreseeable future uses of the Site and no AUL. The Site is currently vacant. The southern portion of the Site is a paved parking lot, which is fenced. Under current conditions, there is potential for exposure to impacted soils located in the unpaved, northern area of the Site. There is limited potential for exposure to soil in the paved, southern area of the Site. The potential exists in the future for construction on the Site, for example, for an office or commercial building on the Property. In this scenario, soils could be excavated and brought to and left on the surface.



Construction/utility workers may excavate into soils during current or future use of the Site. Site workers, residents, trespassers, and the general public, including children, may have the potential to be exposed to impacted soils, if the soils are left unpaved and not beneath a future building.

The evaluation of potential exposures to construction workers to Site soils during construction activities are considered protective of potential soil exposure by Site and utility workers based on the higher frequency and intensity of construction worker exposure.

Future soil exposures to residents at the Site are only possible if the Site is redeveloped for residential purposes and impacted soils are accessible at the surface. Potential exposures of residents to Site soils are considered to be protective of potential soil exposure by the general public, including children.

Potable water is available at the Site through a municipal source. Vapor intrusion from groundwater (located at a depth of 15 feet or less and within 30 feet of an existing or planned future building) and soil (within six feet horizontally and 10 feet vertically from the building) is not likely to be a significant indirect exposure pathway for the currently vacant Site or in the future. No COCs have been detected in Site groundwater. In addition, the COCs for soil, in general, exhibit low volatility.

Groundwater from the Site may reach nearby surface waters and serve as an indirect exposure pathway for aquatic organisms. However, no constituents were detected in groundwater. Therefore, the potential environmental impact of groundwater discharging into surface water is not evaluated for ecological receptors.

#### 2.4.1.2 Identification of Exposure Routes

The exposure route describes how a receptor may contact contaminants at a site. The exposure routes identified for quantitative analysis in this risk characterization are the inadvertent ingestion of constituents in soil and the dermal absorption of constituents from soils in contact with the skin by construction workers, trespassers, and future residents; the inhalation and ingestion of airborne particulates by heavy construction workers; and the ingestion of homegrown produce grown in soil by residents.

Other exposure routes that were considered for quantitative analysis in the evaluation of current and unlimited future use, but determined not to be complete or not to contribute significantly to overall risk were:

- Inhalation of fugitive dust by residents;
- Dermal contact with groundwater and inhalation of volatiles released from groundwater in a trench by construction/utility workers.



The Site is currently vacant. The southern portion of the Site is as a paved parking lot. It is possible that an office or commercial building will be constructed on the Property. Under the theoretical scenario that the Site is developed in the future for residential purposes, it would anticipated that large earthmoving, dust generating projects and major landscaping would be completed before residences were occupied. Therefore, the generation of fugitive dusts would be minimal after construction. The maximum exposed individual during construction is the construction worker. The inhalation of airborne particulates during construction by workers is evaluated in this Method 3.

Pathways for the construction/utility workers that involve groundwater exposures, including dermal contact with groundwater and inhalation of volatiles in ambient air released from groundwater in a trench, were not evaluated quantitatively. There were no COCs detected in groundwater.

#### 2.4.1.3 Exposure Profile Summary

Exposure profile summaries bring together the different elements of the exposure profile to develop complete exposure pathways for each receptor.

<b>RECEPTOR</b>	<b>TYPE OF EXPOSURE</b>	<b>AGE</b>	<b>EXPOSURE MEDIA</b>	<b>EXPOSURE ROUTE</b>
<b><u>CURRENT AND FUTURE CONDITIONS</u></b>				
<b>Construction Workers</b>	Subchronic	Adult	Soils	Incidental Ingestion Dermal Contact Inhalation of Particulates
<b>Trespassers</b>	Chronic	Older Child	Soils	Incidental Ingestion Dermal Contact
<b><u>FUTURE CONDITIONS ONLY</u></b>				
<b>Residents</b>	Chronic	Child and Adult	Soils	Incidental Ingestion Dermal Contact Ingestion of Homegrown Vegetables

#### 2.4.2 Development of Exposure Factors

Exposure factors, also referred to as exposure assumptions, are numerical estimates of the magnitude and duration of exposures that receptors may have to Site OHM. The exposure assumptions and equations for estimating exposures for the construction workers, residents, and trespassers scenarios are from the MA DEP *ShortForms for Human Health Risk Assessment under the MCP* (MA DEP, 2007).



The exposure assumptions and equations for estimating exposures are presented in the following tables:

Table 5 - Construction Worker - Incidental Ingestion of Soil, Dermal Contact with Soil, and Inhalation Airborne Particulates

Table 6 - Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Table 7 - Trespasser - Incidental Ingestion of and Dermal Contact with Soil

#### 2.4.3 Exposure Point Concentrations

Exposure Point Concentrations, or EPCs, are the concentrations of OHM in a medium representative of the concentration a receptor may be exposed to over the course of an exposure. EPCs are calculated separately for each OHM and each medium.

Groundwater EPCs are generally represented by detected concentrations in each individual well, while soil EPCs may represent an arithmetic average concentration within an impacted area or over the entire Site. The Site data were first evaluated to determine if a "hot spot" area(s) is (are) present.

A hot spot is defined as a discrete area where concentrations of OHM or the thickness of NAPL are substantially higher than those present in the surrounding area. A hot spot can be identified based on consideration of both the concentrations or thickness of an OHM within a contaminated area and the spatial pattern of that contamination.

A discrete area where the average concentration within the area is greater than 10 but less than 100 times the average concentration in the immediate surrounding area is a hot spot, unless there is no evidence that the discrete area would be associated with greater exposure potential than the surrounding area.

In all cases, a discrete area where the concentration of OHM is greater than 100 times the concentration in the surrounding area is considered a hot spot. In addition, a hot spot cannot be created as a result of a remedial action (MA DEP, 2004), such as soil excavation.

Data from the affected areas of the Site were evaluated to identify potential "hot spots". No hot spots were identified.

The soil data presented in Section 2.2.1 of this report and in Tables 1A, 1B, and 1C were evaluated for the development of EPCs.

#### Soil

Four sets of soil EPCs was developed for the Site using soil sample data from 1999, 2000, and 2006. The first set is representative of "potentially accessible" soil located at a depth range of 0 to 3 feet bgs under pavement in the southern area of the Site.

The second set is representative of “potentially accessible” soil located at a depth range of 0 to 6.5 feet bgs under pavement in the southern portion of the Site.

The third set is representative of “potentially accessible” soil located at a depth range of 0 to 3 feet bgs in the northern area of the Site. The fourth set is representative of “potentially accessible” soil located at a depth range of 0 to 6 feet bgs under pavement in the southern portion of the Site.

For locations where a primary and duplicate sample were collected (e.g., CSS-2 and CS-500\*), the detected concentrations were first averaged. A value of one-half the laboratory detection limit was used to represent concentrations reported as being below the laboratory detection limit, when the detection limit was available. For lead, samples were collected in clusters (e.g., CSS-1 through -5). Lead concentrations in these cluster subareas were averaged first before calculating the overall EPCs for lead.

The soil EPCs are presented in Tables 8A, 8B, and 8C.

#### 2.4.4 Calculation of Average Daily Doses

The average daily dose (ADD) is a quantitative estimate of how much of each compound is taken into the receptor's body during exposure. The ADD is expressed as milligrams of OHM per kilograms of body weight per day. The general form of the dose equation is:

$$\text{ADD} = \frac{(\text{Total Amount of OHM Contacted}) * (\text{RAF})}{(\text{Body Weight}) * (\text{Averaging Period})}$$

ADDs are calculated differently for assessment of carcinogenic and non-carcinogenic effects from ingestion and dermal contact exposures. For assessment of non-carcinogenic effects, the ADD is averaged over the exposure period. The resulting ADD is an estimate of dose experienced during the actual period of exposure.

$$\text{Averaging Period}_{\text{non-carcinogenic}} = \text{Exposure Period}$$

For carcinogenic effects there is assumed to be no threshold level, and exposures are cumulative over a lifetime. The dose received is, therefore, averaged over a lifetime (70 years) instead of over just the exposure period. The resulting dose estimate is referred to as a lifetime average daily dose, or LADD.

$$\text{Averaging Period}_{\text{carcinogenic}} = \text{Lifetime (70 years)}$$

The average daily exposure (ADE) is a quantitative estimate of applied concentration of each compound for the receptor during exposure. The ADE is expressed as micrograms ( $\mu\text{g}$ ) per cubic meter of air ( $\text{m}^3$ ) and is based on the exposure point concentration (EPC) and an adjustment for the amount of time the receptor spends in the area with contaminated air. The general form of the exposure equation is:

$$\text{ADE} = \frac{\text{EPC} * \text{Exposure Duration} * \text{Exposure Frequency} * \text{Exposure Period} * \text{Conversion Factors}}{\text{Averaging Period}}$$

As with ADDs, ADEs are calculated differently for assessment of carcinogenic and non-carcinogenic effects. For assessment of non-carcinogenic effects, the ADE is averaged over the exposure period. The resulting ADE is an estimate of dose experienced during the actual period of exposure.

$$\text{Averaging Period}_{\text{non-carcinogenic}} = \text{Exposure Period}$$

For carcinogenic effects there is assumed to be no threshold level, and exposures are cumulative over a lifetime. The exposure received is therefore averaged over a lifetime (70 years) instead of over just the exposure period. The resulting exposure estimate is referred to as a lifetime average daily exposure, or LADE.

### **1. Incidental Ingestion Doses for Soil**

The derivations of ADDs for the incidental ingestion route are encoded into the calculation of risk estimates for construction worker (Table 9), resident (Table 10), and trespasser (Table 11). Incidental ingestion is assumed to occur due to hand-to-mouth activity.

### **2. Dermal Contact Doses for Soil**

Calculations of estimated dermal contact ADDs are encoded into the calculation of risk estimates for construction worker (Table 9), resident (Table 10), and trespasser (Table 11). Estimates of OHM contacted were calculated based on compound concentrations, the amount of skin exposed, and the amount of soil adhering to the skin. The ADD equation assumes the exposed skin is coated with soil once per event/day.

### **3. Inhalation and Ingestion of Airborne Particulates Exposures/Doses for Soil**

The derivations of inhalation ADEs and ingestion ADDs are encoded in Table 9 for the construction worker.

### **4. Ingestion of Homegrown Produce**

The ADDs for residential ingestion of homegrown produce are encoded in the risk estimates shortform (Table 10).



## 2.5 Risk Characterization

Risk characterization is the final step in the risk assessment process. In this step, the results of the Hazard Assessment, Dose-Response Assessment, and Exposure Assessment are combined to yield quantitative estimates of incremental risk posed by potential exposures to environmental media at the Site.

Separate estimates of potential cancer and non-cancer risk are made for each receptor and are discussed below. These estimates are compared to risk management criteria to establish whether a Condition of No Significant Risk is present.

### 2.5.1 Non-Cancer Risk

The indicator used to describe the potential for non-carcinogenic health effects is the Hazard Index (HI). For a given chemical, the HI is the ratio of a receptor's exposure level (or dose) to the level of exposure considered to be safe. In this risk characterization, a safe level of exposure is represented by the RfD or RfC for each compound. An HI that does not exceed 1 indicates the receptor's exposure to that compound is without risk of adverse health effect.

$$\begin{aligned}\text{Hazard Index} &= \text{ADD}/\text{RfD} \text{ or} \\ \text{Hazard Index} &= \text{ADE}/\text{RfC}\end{aligned}$$

When the Hazard Indices for each of the compounds of concern at the Site are summed for each receptor, the result is a total Site Hazard Index. This total Site Hazard Index is referred to as a screening HI because it does not segregate different compounds of concern based on their mode of toxicological activity.

Thus, when used as an indicator of total Site non-carcinogenic risk, the screening HI is likely to overstate the actual level of non-carcinogenic risk. If the screening level HI is not greater than 1, this indicates there is no significant non-carcinogenic health risk associated with Site exposures. If the screening level HI is greater than 1, this HI is segregated by toxicity endpoint.

Tables 9 to 11 present non-cancer risks. The hazard indices are summarized in Table 12. The cumulative screening hazard indices for construction workers and trespassers for the Site, and future residents in the northern portion of the Site do not exceed 1. These findings indicate that a Condition of No Significant Risk exists for these receptors.

However, the cumulative screening hazard indices for residents in the southern portion of the Site do exceed 1. The primary contributor to this exceedance is lead, particularly from the ingestion of homegrown produce. The segregation of the screening hazard indices by toxicity endpoint would yield the same result. These findings indicate that a Condition of No Significant Risk does not exist for future residents.

## 2.5.2 Cancer Risk

The potential for carcinogenic health effects is estimated as the Incremental Excess Lifetime Cancer Risk (ELCR). The ELCR represents the incremental probability of an exposed individual developing cancer over a lifetime as a result of exposure. For each chemical, the ELCR is the product of the Lifetime Average Daily Dose (LADD) or Lifetime Average Daily Exposure (LADE) and that compound's carcinogenic potency.

The indicator of carcinogenic potency used in this risk characterization is the EPA Cancer Slope Factor (CSF) or Unit Risk.

$$\begin{aligned} \text{ELCR} &= \text{LADD} \times \text{CSF} \text{ or} \\ \text{ELCR} &= \text{LADE} \times \text{Unit Risk} \end{aligned}$$

As in the case of non-cancer risk, the ELCRs for each of the different compounds and pathways are summed to produce a receptor-specific cumulative ELCR. This cumulative ELCR is compared to the risk management criterion of  $1 \times 10^{-5}$  (one in one hundred thousand). A cumulative ELCR that does not exceed  $1 \times 10^{-5}$  indicates that no significant carcinogenic risk is present due to OHM at the Site. A cumulative ELCR greater than  $1 \times 10^{-5}$  indicates a potential for significant cancer risk is present as defined by the MCP.

Tables 9 to 11 present cancer risks. The ELCRs are summarized in Table 12. The cumulative ELCRs for this Site for construction workers and trespassers for the Site, and residents for the northern portion of the Site do not exceed  $1 \times 10^{-5}$ . These findings indicate that a Condition of No Significant Risk exists for these receptors.

However, the ELCRs for residents in the southern portion of the Site do exceed  $1 \times 10^{-5}$ . Therefore, a Condition of No Significant Risk does not exist for this receptor and these soils.

## 2.5.3 Summary of Findings

1. The cumulative hazard indices and excess lifetime cancer risks for construction workers from exposures to soil are not greater than MA DEP's risk management criteria of 1 and  $1 \times 10^{-5}$ , indicating a Condition of No Significant Risk for these receptors. Construction worker exposure to Site soil is considered to be protective of lesser-exposed receptors, such as utility workers, landscapers, and Site workers.
2. The cumulative hazard index and excess lifetime cancer risk for residents from exposures to soil in the northern portion of the Site are not greater than MA DEP's risk management criteria of 1 and  $1 \times 10^{-5}$ , indicating a Condition of No Significant Risk does exist for this receptor. However, the cumulative hazard index and excess lifetime cancer risk for residents from exposures to soil in the southern portion of the Site are greater than MA DEP's risk management criteria of 1 and/or  $1 \times 10^{-5}$ , indicating a Condition of No Significant Risk does not exist for this receptor.



3. The cumulative hazard index and excess lifetime cancer risk for trespassers from exposures to soil at are not greater than MA DEP's risk management criteria of 1 and/or  $1 \times 10^{-5}$ , indicating a Condition of No Significant Risk does exist for this receptor.
4. There are no exceedances of applicable or suitably analogous standards.

Based on these findings, we conclude that a Condition of No Significant Risk exists for soil exposures to construction workers and trespassers, and residents in the northern portion of the Site. However, a Condition of No Significant Risk does not exist for unrestricted use by residents in the southern area of the Site. Therefore, an Activity and Use Limitation (AUL) is required for the southern area of the Site to control these types of exposures in the AUL area. The AUL restricts activities and/or uses that are likely to involve the removal and/or disturbance of the impacted soil beneath the protective barrier without a Soil Management Plan, Health and Safety Plan, and LSP opinion.

## 2.6 Uncertainty Analysis

The risk assessment process uses information from a variety of sources, such as analytical data from the Site investigation and toxicity data from published research. This information is combined with assumptions regarding potential receptors and Site use. Uncertainties may be present in each of these assumptions, and may affect the outcome of the risk assessment. The risk assessment was developed to be a conservative estimate of potential adverse health effects. Its results should not be interpreted as definitive quantitative values. Uncertainties in the various portions of this risk assessment are discussed below.

### **A. Hazard Identification**

The identification of constituents present in soil and their distribution across the Site are dependent upon the sampling and analytical program conducted. Conservative assumptions were made in developing soil EPCs that likely lead to overestimates of actual exposure point concentrations. EPCs were based on detected concentrations in samples collected from higher concentration areas. Sampling programs tend to focus on areas of higher concentration, resulting in a high-end estimate of the EPC.

### **B. Exposure Assessment**

There is uncertainty associated with exposure assessment because the range of potential human activity is broad. Variability is associated with differences between individual receptors, such as body weight, skin surface area, and rates of soil ingestion.

Conservative assumptions that are consistent with those recommended by MA DEP risk guidance documents have been used in developing pathway exposure factors that are anticipated to err on the side of protection of health.



### C. Dose-Response Assessment

Toxicity information for many of the chemicals detected at the Site is associated with varying degrees of uncertainty. Sources of uncertainty for toxicity values (EPA, 1989) may include:

- Using dose-response information from effects observed at high doses to predict the adverse health effects that may occur following exposure to low levels expected from human contact with the agent in the environment;
- Using dose-response information from short-term exposure to predict the effects of long-term exposures, and vice-versa;
- Using dose-response information from animal studies to predict effects in humans;
- Using dose-response information from homogeneous animal populations or healthy human populations to predict the effects likely to be observed in the general population consisting of individuals with a wide range of sensitivities.

Most of the toxicity values used in this risk characterization are EPA-verified RfDs/RfCs and slope factors. These values, as presented in IRIS, are derived using a number of safety factors and are accompanied by a statement of confidence in the value itself, the critical study, and the overall data base for RfDs/RfCs, and the weight-of-evidence classifications for slope factors.

MA DEP has derived toxicity values for VPH/EPH carbon fractions using a reference surrogate compound approach for these complex mixtures of hydrocarbons (MA DEP, 2002e). The method involves segregating the petroleum hydrocarbons present in mixtures into broad chemical classes and further into subgroups or fractions based upon their size, and with consideration of comparative toxicity and structure activity relationships (SARs). For each subgroup of compounds, a reference compound was initially identified to represent the toxicity of all compounds in the range. The compound was usually chosen because its toxicity was relatively well characterized. For each reference compound, an EPA published value was identified or a value was identified based on available toxicity information.

### D. Risk Calculations

The risk calculations were performed using a deterministic methodology as required under MCP guidance. In a deterministic methodology, a single value (point estimate) is used for exposure parameters and exposure point concentrations. The result is that a single risk value is calculated for each scenario and receptor of concern. However, the use of a mix of mid-range and conservative exposure assumptions is intended to produce realistic upper-end exposure estimates, which will be protective of public health and produce risk estimates that will be valid for comparison to MCP Cumulative Risk Limits (MA DEP, 1995).

### 3.0 CHARACTERIZATION OF RISK OF HARM TO PUBLIC WELFARE

The MCP defines two purposes for conducting a characterization of risk to public welfare: (a) to identify and evaluate nuisance conditions that may be localized, and (b) to identify and evaluate significant community effects. The characterization of risk to public welfare considers effects that are or may result from the presence of residual contamination or the implementation of a proposed remedial alternative (310 CMR 40.0994).

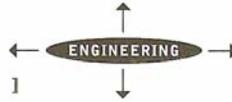
The characterization of the risk of harm to public welfare considers Site, receptor, and exposure information, as well as data collected pursuant to the response action(s) being performed. The characterization of risk of harm to public welfare also considers such factors as the existence of nuisance conditions, loss of active or passive property use(s), and any non-pecuniary effects not otherwise considered in the characterization of risk of harm to health, safety, and the environment, but which may accrue due to the degradation of public resources directly attributable to the release or threat of release of OHM or the remedial alternative (310 CMR 40.0994(2)).

The risk of harm to public welfare is characterized by comparing the concentration of each OHM to the Upper Concentration Limits in Soil and Groundwater or UCLs [as defined in 310 CMR 40.0996]. In addition, a level of no significant risk of harm to public welfare exists or has been achieved, if no nuisance conditions, such as noxious odors, persist. The EPCs derived for soils (Table 8) and groundwater concentrations (Table 2) do not exceed UCLs.

The Site has been shown to contain soils impacted by constituents that may possess an odor at close range. The impacted soils at the Site are located in unpaved and paved areas at depths of zero to 7.5 feet bgs. Intermittent odors may occur if affected soils become uncovered and brought to the surface.

For petroleum-contaminated sites, MA DEP guidance (MA DEP, 2002e) has suggested rules of thumb for determining when an odor condition would generally not be considered a nuisance condition. The rules of thumb that would be applicable to potential intermittent odors are:

1. Odors observed in the subsurface during excavation or boring advancement would generally not be considered a nuisance condition, as long as such odors are not detectable in ambient or indoor air, and as long as there are no plans to excavate or disturb such areas.
2. Odors observed in the breathing zone of the ambient air, or indoor air of an impacted structure, would generally not be considered a nuisance condition, if such odors do not persist for more than 3 months.
3. Odors observed in the breathing zone of the ambient air would generally not be considered a nuisance condition if they are discernable less than 10 days a year.



4. Odors observed in the ambient air or indoor air of an impacted structure would generally not be considered a nuisance condition if the occupants of such a structure do not believe such odors significantly affect or degrade their quality of life.

Potential odors are not believed to pose a significant risk to public welfare based on these rules of thumb being met and infrequent occurrence and low potential for exposure.

Therefore, there is No Significant Risk to public welfare for soils at the Site under current and foreseeable future conditions.

#### **4.0 CHARACTERIZATION OF RISK OF HARM TO SAFETY**

The risk of harm to safety, as described in 310 CMR 40.0960, was evaluated for the Site. The Site does not exhibit the following safety-related characteristics:

1. There are no rusted or corroded drums or containers, open pits, lagoons, or other dangerous structures at the Site;
2. There is no threat of fire or explosion from the presence of explosive vapors resulting from the release of OHM at the Site; and
3. There are no containerized materials at the Site exhibiting the characteristics of corrosivity, reactivity, or flammability.

Therefore, there is not a risk of harm to safety due to conditions at the Site.

#### **5.0 ENVIRONMENTAL RISK CHARACTERIZATION**

In accordance with Section 40.0995 of the MCP, this section of the risk assessment evaluates possible ecological risks due to OHM in soils and groundwater at the Site. For the Site, a Stage I Environmental Risk Screening was conducted. The Stage I Screening steps are:

1. Identify complete Exposure Pathways [310 CMR 40.0995 (3)(a)],
2. Determine whether Readily Apparent Harm Exists [310 CMR 40.0995 (3)(b)],  
and
3. Establish if Potentially Significant Exposures Exist [310 CMR 40.0995 (3)(c)].

If there are no complete exposure pathways, readily apparent harm, or potentially significant exposures, no further action to assess ecological risk is required (MA DEP, 1996a).

The Stage I screening for potential ecological receptors has been conducted for terrestrial habitats, as no groundwater was evaluated at the Site.

### 5.1 Aquatic Habitat Screening

Four criteria are identified in the MCP to assess whether exposure of environmental receptors is likely:

1. Evidence that OHM have come to be located in a surface water body or wetland,
2. Evidence that OHM have had an adverse impact on aquatic biota,
3. The presence of OHM in any Study Area media at concentrations associated in the scientific literature with adverse environmental impacts, and
4. The presence of environmental receptors within 500 feet of the Study Area and the potential for OHM to migrate to such receptors at a concentration which would exceed Ambient Water Quality Standards or Massachusetts Surface Water Quality Standards.

There are no surface water bodies present on the Site. The nearest surface water body is the abutting Acushnet River, which flows south to the New Bedford Inner Harbor. New Bedford Inner Harbor is a designated Class SB surface water body with restricted shell fishing and is impacted by Combined Sewer Overflows according to the Massachusetts Surface Water Quality Standards. A Class SB surface water body is suitable as a habitat for fish and other aquatic life, and for primary and secondary contact recreation such as swimming and boating. The groundwater flow direction at the Site is inferred to be to the southeast.

The potential for the existing groundwater conditions to impact the river and inner harbor in the future was evaluated. No COCs were detected in Site groundwater.

These findings indicate a Condition of No Significant Risk of harm to the aquatic environment for Site groundwater.

### 5.2 Terrestrial Habitat Screening

Natural vegetation is limited at the Site. Although, the Site is currently vacant, it has been developed in the past. Soils with reported concentrations of constituents are located at depths of zero to 7.5 feet bgs and in unpaved and paved areas. Therefore, it is possible that plants and burrowing wildlife could currently directly contact the unpaved soils under current Site conditions. Direct contact with Site soil by these receptors would be limited in the southern portion of the Site that is paved.

A further evaluation of the presence of potentially significant exposure pathways was completed. Since no soil screening criteria are available, the terrestrial habitat has been screened on the basis of its size. For the purposes of this screening, the size of undeveloped/open land at the Site determines the specific evaluation of terrestrial environments.

MA DEP (1996a) states that for the purposes of the screening process, undeveloped/open land is characterized by the presence of native vegetation, and does not include landscaped residential and commercial parcels, landscaped parks, or golf courses.

Based on this MA DEP definition, the open space on the Site is less than 2 acres in size. Therefore, no further action to characterize ecological risk is required for sites unless:

1. Contaminant transport from surface soil to an Area of Critical Environmental Concern (ACEC) is possible, or
2. State-listed threatened or endangered species, or other species of special concern are present.

According to the MassGIS map, the Site is not:

1. Within an ACEC nor is contaminant transport from surface soil to an ACEC possible, or
2. The location of state-listed threatened or endangered species, or other species of special concern.

Based on the above information, potentially significant exposures do not exist for terrestrial ecological receptors potentially exposed to soils. Overall, there is currently No Significant Risk to the environment from OHM detected in soils and groundwater at the Site.

## **6.0 CONCLUSIONS**

In accordance with the Massachusetts Contingency Plan, 310 CMR 40.0990, we have conducted a Method 3 risk characterization for the Site located at Map 25A, Lots 49 and 53 at 16 Blackmer Street in New Bedford, Massachusetts.

To assess whether reported concentrations of OHM represent a Condition of No Significant Risk, this Method 3 risk characterization was completed. In accordance with the MCP, the Method 3 risk characterization included the following components:

1. Assessment of risks to human health,
2. Assessment of risks to public welfare,
3. Assessment of environmental risks, and
4. Assessment of risk of harm to safety.

The risk characterization concluded that a Condition of No Significant Risk to public welfare, the environment, and safety exists at the Site based on available Site data and exposures evaluated for current Site activities and uses.

The human health portion of the Method 3 Risk Characterization concludes that a Condition of No Significant Risk exists for current Site uses and potential exposures to soils to construction workers and trespassers, and future residents in the north portion of the Site. However, a Condition of No Significant Risk does not exist for unrestricted use by residents and other uses where a child's presence is likely at a high frequency and high intensity of use in the southern area of the Site.

There are no complete exposure pathways to groundwater. There are no exceedances of applicable and suitably analogous standards.

Potentially significant exposures were not found to exist for aquatic and terrestrial ecological receptors.

A Condition of No Significant Risk does not exist for unrestricted future use(s) of the southern area of the Site. Therefore, an AUL is required to achieve and/or maintain a Condition of No Significant Risk. The AUL restricts activities and/or uses that are likely to involve the removal and/or disturbance of the impacted soil beneath the protective barrier without a Soil Management Plan, Health and Safety Plan, and LSP opinion. Based on the implementation of an AUL, a Class A-3 RAO is appropriate for the Site.

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## TABLES

**Table 1A**  
**EPH, PAHs, and Coal Ash Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**  
**Concentration (mg/kg)**

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008		SS-04A**	SS-04B**	TP-03	TP-04	CSS-2	CSS-2	CSS-500*	CSS-500*	CGW1/S-3	BH2	BH2	Duplicate 4
	RCS-1	RSC-2	0-3 09/28/99	0-3 09/28/99	M&E 01/2000	M&E 01/2000	0-3 03/06/00	3-6 03/06/00	0-3 03/06/00	3-6 03/06/00	0-2 03/07/00	2.5-4 05/25/06	4-6.5 05/25/06	(CSETP1 3-6') 05/25/06
<b>TARGET EPH</b>														
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	3.2	ND	DU	DU	ND	ND	ND	ND	ND	<13.2	<11.8	<13.0
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	50	19	DU	DU	29	17.0	27.0	16.0	32.0	32.2	19.2	<13.0
C11-C22 Aromatic Hydrocarbons	1,000	3,000	180	120	DU	DU	78.0	280.0	120.0	240.0	180.0	117.0	177.0	<13.0
<b>PAHs</b>														
Naphthalene	4	40	0.45	0.51	DU	DU	ND	2.200	ND	0.550	0.740	0.203	0.280	<0.0649
2-Methylnaphthalene	0.7	80	0.44	0.25	DU	DU	5.000	0.860	ND	ND	ND	<0.0658	<0.058	<0.0649
Acenaphthene	2	3,000	0.47	1.2	DU	DU	ND	2.000	0.900	0.850	2.100	0.405	0.689	<0.130
Phenanthrene	10	1,000	11	14	DU	DU	5.400	36.000	7.900	27.000	23.000	5.770	8.260	<0.0649
Acenaphthylene	1	10	1.2	0.7	DU	DU	ND	0.600	ND	0.540	ND	0.213	0.276	<0.0649
Fluorene	1,000	3,000	1.6	1.4	DU	DU	0.640	3.800	0.990	2.200	2.800	0.495	0.795	<0.0325
Anthracene	1,000	3,000	3.3	4.2	DU	DU	1.400	8.300	2.300	6.400	6.500	1.130	1.720	<0.0649
Fluoranthene	1,000	3,000	16	21	DU	DU	7.60	41.00	9.600	35.000	23.000	8.430	10.800	<0.260
Pyrene	1,000	3,000	20	19	DU	DU	7.60	38.00	9.700	32.000	22.000	7.110	8.910	<0.260
Benz[a]Anthracene	7	40	8.9	10	DU	DU	3.50	17.00	4.500	16.000	9.800	3.470	4.380	<0.130
Chrysene	70	400	8.4	9.9	DU	DU	3.80	16.00	4.900	13.000	10.000	3.470	4.470	<0.130
Benzo[b]Fluoranthene	7	40	7.7	9.1	DU	DU	3.900	18.000	5.100	14.000	9.700	<0.197	<0.176	<0.195
Benzo[k]Fluoranthene	70	400	5	11	DU	DU	1.60	3.50	2.500	5.600	4.600	<0.132	<0.118	<0.130
Benzo[a]Pyrene	2	4	<b>8.2</b>	<b>11</b>	DU	DU	<b>3.200</b>	<b>13.000</b>	<b>4.100</b>	<b>11.000</b>	<b>8.400</b>	<0.132	<0.118	<0.130
Indeno[1,2,3-c,d]Pyrene	7	40	7.5	7.4	DU	DU	2.600	10.000	4.000	9.200	6.500	<0.0658	<0.0588	<0.0649
Dibenzo[a,h]Anthracene	0.7	4	<b>7.5</b>	2.5	DU	DU	2.600	<b>10.000</b>	<b>4.000</b>	<b>9.200</b>	<b>6.500</b>	<0.132	<0.118	<0.130
Benzo[g,h,i]Perylene	1,000	3,000	5.3	8.3	DU	DU	2.000	7.300	3.600	6.700	4.700	<0.132	<0.118	<0.130
<b>COAL ASH</b>							NA	NA	NA	NA	NA	NA	coal ash	NA
* Duplicate of CSS-2							Cygnus TP-1 through TP-8 were NA for EPH/PAH							
ND - Non Detect							RCs updated in Feb 2008							
NA - Not Analyzed							** Pesticides detected at estimated concentrations less than the RSC-2 standards.							
NS - Not Specified							DU - Data unknown/Unavailable - data tables, missing from M&E and Cygnus reports, but discussed in body of report.							
<b>Bold</b> indicates RCS2 threshold exceeded														

**Table 1A**  
**EPH, PAHs, and Coal Ash Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**  
**Concentration (mg/kg)**

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008		BH1	BH-1	CSE TP-1	CSE TP-1	CSE TP-2	CSE TP-2	CSE TP-3	Duplicate 3	CSE TP-3
	RCS-1	RSC-2	0-2.5 05/25/06	2.5-5 05/25/06	0-3 05/25/06	3-6 05/25/06	0-3 05/25/06	3-6 05/25/06	0-3 05/25/06	(CSETP3 0-3') 05/25/06	3-6 05/25/06
<b>TARGET EPH</b>											
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	<11.5	<12.2	<14.5	<13.2	<15.2	<15.4	<12.0	<12.3	<13.3
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	20.2	83.4	<14.5	<13.2	15.2	54.7	12.7	44.1	<13.3
C11-C22 Aromatic Hydrocarbons	1,000	3,000	292.0	242.0	<14.5	<13.2	902.0	84.3	337.0	613.0	<13.3
<b>PAHs</b>											
Naphthalene	4	40	0.147	0.239	<0.0725	<0.0658	<0.0758	<0.0769	0.210	0.185	<0.0667
2-Methylnaphthalene	0.7	80	<0.057	<0.061	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Acenaphthene	2	3,000	0.602	0.420	<0.145	0.132	<0.152	<0.154	0.301	0.827	<0.133
Phenanthrene	10	1,000	25.800	6.740	0.380	<0.0658	36.400	1.500	9.350	21.500	<0.0667
Acenaphthylene	1	10	1.260	0.307	<0.0725	<0.0658	1.390	0.246	0.619	0.731	<0.0667
Fluorene	1,000	3,000	1.830	0.505	<0.0362	<0.0329	1.320	<0.0385	0.535	1.410	<0.0333
Anthracene	1,000	3,000	4.660	1.300	<0.0725	<0.0658	7.840	0.317	1.600	3.700	<0.0667
Fluoranthene	1,000	3,000	33.000	11.400	0.357	<0.263	64.700	3.170	20.700	33.600	<0.267
Pyrene	1,000	3,000	27.800	10.100	0.304	<0.263	59.500	2.950	18.300	33.300	<0.267
Benz[a]Anthracene	7	40	12.100	4.900	0.186	<0.132	<b>29.400</b>	1.310	<b>9.850</b>	<b>15.700</b>	<0.133
Chrysene	70	400	11.300	5.110	0.275	<0.132	26.000	1.460	9.870	16.400	<0.133
Benzo[b]Fluoranthene	7	40	<0.172	<0.183	<0.217	<0.197	<0.227	<0.231	<0.181	<0.185	<0.200
Benzo[k]Fluoranthene	70	400	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[a]Pyrene	2	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Indeno[1,2,3-c,d]Pyrene	7	40	<0.0575	<0.0610	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Dibenzo[a,h]Anthracene	0.7	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[g,h,i]Perylene	1,000	3,000	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
<b>COAL ASH</b>			NA	NA	COAL ASH	NA	NA	NA	NA	NA	NA
* Duplicate of CSS-2 ND - Non Detect NA - Not Analyzed NS - Not Specified <b>Bold</b> indicates RCS2 threshold exceeded											
Cygnum TP-1 through TP-8 were NA for EPH/PAH RCs updated in Feb 2008											

**Table 1B**  
**PCBs and Asbestos Containing Materials (ACM) Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**  
**Concentration (mg/kg)**

Sample location	South Area	North Area	North Area	South Area	South Area	South Area	South Area	South Area	North Area	North Area	North Area
<b>SAMPLE IDENTIFICATION</b>	<b>CGW1/S-3</b>	<b>BH1</b>	<b>BH-1</b>	<b>BH2</b>	<b>SS-04A</b>	<b>SS-04B</b>	<b>TP-03</b>	<b>TP-04</b>	<b>CSE TP-2</b>	<b>CSE TP-3</b>	<b>CSE TP-1</b>
<b>SAMPLE DEPTH (FT)</b>	0-2	0-2.5	2.5-5	2.5-4	0-3	0-3			3-6	0-3	0-3
<b>COLLECTION DATE</b>	03/07/00	05/25/06	05/25/06	05/25/06	09/28/99	09/28/99	01/2000	01/2000	05/25/06	05/25/06	05/25/06
<b>ASBESTOS</b>											
chrysotile	NA	NA	NA	<1%	NA	NA	NA	NA	ND	ND	ND
<b>POLYCHLORINATED BIPHENYLS (PCBs)</b>											
Aroclor 1221	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1232	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1248	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1254	ND	0.073	< .0610	0.105	ND	1.700	DU	capacitors observed	< .0769	0.439	< .0725
Aroclor 1260	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1262	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1268	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
ND - Not Detected by lab method NA - Not Analyzed NS - Not Specified <b>Bold</b> indicates RCS2 threshold exceeded DU - Data unknown/Unavailable - data tables missing from M&E and Cyngus reports but discussed in body of report.											

**Table 1C**  
**Lead Soil Data**  
**16 Blackmer Street**  
**New Bedford, MA**  
**1999, 2000, and 2006**

Sample Identification Number	Sample Location	Sample Depth (ft)	Collection Date	Lead mg/kg
CSS-01	South Area	0-3	3/6/2000	260
CSS-1	South Area	3-6	3/6/2000	130
CSS-2	South Area	0-3	3/6/2000	<b>400</b>
CSS-500 (duplicate CSS-2)	South Area	0-3	3/6/2000	<b>620</b>
CSS-2	South Area	3-6	3/6/2000	210
CSS-500 (duplicate CSS-2)	South Area	3-6	3/6/2000	160
CSS-3	South Area	0-3	3/6/2000	<b>2500</b>
CSS-3	South Area	3-6	3/6/2000	160
CSS-4	South Area	0-3	3/6/2000	<b>530</b>
CSS-4	South Area	3-6	3/6/2000	190
CSS-5	South Area	0-3	3/6/2000	<b>310</b>
CSS-5	South Area	3-6	3/6/2000	150
CGW-1/S-3	South Area	0-2	3/7/2000	<b>490</b>
TP-1	North Area	0-3	5/9/2000	190
TP-2	North Area	0-3	5/9/2000	140
TP-3	North Area	0-3	5/9/2000	180
TP-4	North Area	0-3	5/9/2000	61
TP-5	South Area	0-3	5/9/2000	100
TP-X (TP5 duplicate)	South Area	0-3	5/9/2000	220
TP-6	South Area	0-3	5/9/2000	<b>930</b>
TP-7	North Area	0-3	5/9/2000	63
TP-8	South Area	0-3	5/9/2000	250
BH1	North Area	0-2.5	5/28/2006	111
BH1	North Area	2.5-5	5/28/2006	287
Duplicate 1 (BH1 2.5-5)	North Area	2.5-5	5/28/2006	194
BH1	North Area	5-7.5	5/28/2006	<u>5.25</u>
BH2	South Area	0-2.5	5/28/2006	<b>313</b>
BH2	South Area	2.5-4	5/28/2006	<b>339</b>
Duplicate 2 (BH2 2.5-4)	South Area	2.5-5	5/28/2006	<b>371</b>
BH2	South Area	4-6.5	5/28/2006	<b>5780</b>
SS-04A	South Area	0-3	9/28/99	<b>3640</b>
SS-04B	South Area	0-3	9/28/99	<b>379</b>
CSE/TP-1	North Area	0-3	5/28/2006	42.1
CSE/TP-1	North Area	3-6	5/28/2006	<u>5.7</u>
CSE/TP-2	North Area	0-3	5/28/2006	77.9
CSE/TP-2	North Area	3-6	5/28/2006	<u>6.65</u>
CSE/TP-3	North Area	0-3	5/28/2006	256
CSE/TP-3	North Area	3-6	5/28/2006	25.9
BH-6A	South Adjacent Lot	2.5-6	6/12/2006	<b>550</b>
BH-6B	South Adjacent Lot	2.5-6	6/12/2006	209
BH-6C	South Adjacent Lot	2.5-6	6/12/2006	<b>1380</b>
BH-6D	South Adjacent Lot	2.5-6	6/12/2006	<b>611</b>
Upper Concentration Limit (Method 3)				<b>3000</b>
Reportable Concentration S1				300
Reportable Concentration S2				300
MCP Background - urban fill				600
- undefined in MCP				
<b>Bold</b> indicates RC threshold has been exceeded				
<u>Underline</u> indicates sample was non-detect and value is half method reporting limit.				



**Table 3**  
**Toxicity Values for Site Compounds**  
**Cancer Slope Factors**

Compound name	Oral Slope Factor (mg/(kg*d)) <sup>1</sup>	Inhalation		Ref	Weight of Evidence	Study Information
		Unit Risk (ug/m <sup>3</sup> ) <sup>1</sup>	Slope Factor (mg/(kg*d)) <sup>1</sup>			
<b>EPH Target Analytes</b>						
Acenaphthene	none	none	none	I		
Acenaphthylene	none	none	none	I	D	No human data; inadequate animal data
Anthracene	none	none	none	I	D	No human data; inadequate animal data
Benzo(a)anthracene	7.3E-01	2.1E-04	7.3E-01	I	B2	Tumors in mice by gavage, injection and topical application
Benzo(a)pyrene	7.3E+00	2.1E-03	7.3E+00	I	B2	Multiple animal studies and species by numerous routes
Benzo(b)fluoranthene	7.3E-01	2.1E-04	7.3E-01	I	B2	Tumors in mice by lung implantation, injection, and skin painting
Benzo(g,h,i)perylene	none	none	none	I	D	No human data; inadequate animal data
Benzo(k)fluoranthene	7.3E-02	2.1E-05	7.3E-02	I	B2	Tumors in mice by lung implantation and skin painting
Chrysene	7.3E-02	2.1E-05	7.3E-02	I	B2	Tumors in mice by injection
Dibenzo(a,h)anthracene	7.3E+00	2.1E-03	7.3E+00	I	B2	Tumors in mice by oral & dermal; in other species by injection
Fluoranthene	none	none	none	I	D	No human data; inadequate animal data
Fluorene	none	none	none	I	D	No human data; inadequate animal data
Indeno(1,2,3-cd)pyrene	7.3E-01	2.1E-04	7.3E-01	I	B2	Tumors in mice by implants, injection and dermal
2-Methylnaphthalene	none	none	none	I	NA	
Naphthalene	none	none	none	I	C	Inadequate human data; limited animal data
Phenanthrene	none	none	none	I	D	No human data; inadequate animal data
Pyrene	none	none	none	I	D	No human data; inadequate animal data
<b>Extractable Petroleum Hydrocarbons</b>						
C19-C36 Aliphatics	none	none	none	DEP08	NA	
C11-C22 Aromatics	none	none	none	DEP08	NA	
<b>PCBs</b>						
PCBs	2.0E+00	1.0E-04	2.0E+00	I	B2	Rat dietary studies-liver tumors; Inhalation unit risk based on oral studies data
<b>Metals</b>						
Lead	none	none	none	I	B2	Renal tumors in rats and mice by diet and subcutaneous routes

Notes:

NA - Not Available.

<sup>1</sup> - Subchronic RfD and RfC assumed to be the same value as the Chronic RfD and RfC, unless presented otherwise in HEAST or MADEP, 2008.

R - Route-to-route extrapolation.

References:

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H97 - USEPA, 1997a. Health Effects Assessment Summary Tables (HEAST). July 1997. (A) - Alternate.

I - USEPA, 2008. IRIS - Integrated Risk Information System. September 2008.

**Table 3**  
**Toxicity Values for Site Compounds**  
**Reference Doses and Reference Concentrations**

Compound name	Oral		Ref	Inhalation		Ref	Study Information Oral; Inhalation	Critical Effect or Target Organ Oral; Inhalation
	Chronic RfD (mg/(kg*d))	Subchronic RfD <sup>1</sup> (mg/(kg*d))		Chronic RfC (ug/m <sup>3</sup> )	Subchronic RfC <sup>1</sup> (ug/m <sup>3</sup> )			
<b>EPH Target Analytes</b>								
Acenaphthene	6.0E-02	6.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse oral gavage; RfC based on aromatic mixture	Liver; Body weight reduction, hepatic, renal and developmental effects
Acenaphthylene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+00	DEP08	Based on toxicity information for pyrene; RfC based on aromatic mixtures	Kidney effects; Body weight reduction, hepatic, renal and developmental effects
Anthracene	3.0E-01	3.0E+00	I, H97	5.0E+01	5.0E+02	DEP08	Mouse oral gavage; RfC based on aromatic mixture	None observed; Body weight reduction, hepatic, renal and developmental effects
Benzo(a)anthracene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(a)pyrene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(b)fluoranthene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(g,h,i)perylene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(k)fluoranthene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Chrysene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Dibenzo(a,h)anthracene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Fluoranthene	4.0E-02	4.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse gavage; RfC based on aromatic mixture	Kidney, liver, and blood; Body weight reduction, hepatic, renal and developmental effects
Fluorene	4.0E-02	4.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse gavage; RfC based on aromatic mixture	Blood; Body weight reduction, hepatic, renal and developmental effects
Indeno(1,2,3-cd)pyrene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
2-Methylnaphthalene	4.0E-03	4.0E-02	I, DEP08	5.0E+01	5.0E+02	DEP08	Mouse dietary; RfC based on aromatic mixture	Lung function; Body weight reduction, hepatic, renal and developmental effects
Naphthalene	2.0E-02	2.0E-01	I, DEP08	3.0E+00	3.0E+00	I	Rat subchronic oral; Mouse chronic inhalation	Decreased body weight; Nasal
Phenanthrene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Pyrene	3.0E-02	3.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse oral gavage; Based on toxicity information for aromatic mixtures	Kidney; Body weight reduction, hepatic, renal and developmental effects
<b>Extractable Petroleum Hydrocarbons</b>								
C19-C36 Aliphatics	2.0E+00	6.0E+00	DEP08	NA	NA	DEP08	RfD based on eicosane as a reference compound	Liver granuloma; NA
C11-C22 Aromatics	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	RfD based on toxicity information for pyrene; RfC based on aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
<b>PCBs</b>								
PCBs	2.0E-05	5.0E-05	I, H97	2.0E-02	2.0E-02	DEP08	Monkey clinical and immunologic studies	Ocular, nail, and blood effects
<b>Metals</b>								
Lead	7.5E-04	7.5E-04	DEP08	1.0E+00	1.0E+00	DEP08	Back-calculated from drinking water action level	Central nervous system; Central nervous system

## Notes:

NA - Not Available.

<sup>1</sup> - Subchronic RfD and RfC assumed to be the same value as the Chronic RfD and RfC, unless presented otherwise in HEAST or MADEP, 2008.

R - Route-to-route extrapolation.

## References:

DEP08 - MassDEP, 2008a. 310 CMR 40.0000, The Massachusetts Contingency Plan. MCP Numerical Standards Derivation. Workbook: MCP Toxicity. February 2008.

H97 - USEPA, 1997a. Health Effects Assessment Summary Tables (HEAST). July 1997. (A) - Alternate.

I - USEPA, 2008a. IRIS - Integrated Risk Information System. August 2008.

**Table 4**  
**Relative Absorption Factors (RAFs)**

Compound Name	Ingestion Soil		Dermal Soil	
	Carcinogen	Non-Carcinogen	Carcinogen	Non-Carcinogen
<b>EPH Target Analytes</b>				
Acenaphthene	NC	0.36	NC	0.1
Acenaphthylene	NC	0.36	NC	0.1
Anthracene	NC	0.36	NC	0.1
Benzo(a)anthracene	0.28	0.28	0.02	0.02
Benzo(a)pyrene	0.28	0.28	0.02	0.02
Benzo(b)fluoranthene	0.28	0.28	0.02	0.02
Benzo(g,h,i)perylene	NC	0.36	NC	0.1
Benzo(k)fluoranthene	0.28	0.28	0.02	0.02
Chrysene	0.28	0.28	0.02	0.02
Dibenzo(a,h)anthracene	0.28	0.28	0.02	0.02
Fluoranthene	NC	0.36	NC	0.1
Fluorene	NC	0.36	NC	0.1
Indeno(1,2,3-cd)pyrene	0.28	0.28	0.02	0.02
2-Methylnaphthalene	NC	0.36	NC	0.1
Naphthalene	NC	0.36	NC	0.1
Phenanthrene	NC	0.36	NC	0.1
Pyrene	NC	0.36	NC	0.1
<b>Extractable Petroleum Hydrocarbons</b>				
C19-C36 Aliphatics	NC	1	NC	0.1
C11-C22 Aromatics	NC	0.36	NC	0.1
<b>Metals</b>				
Lead	NC	0.5	NC	0.006
Mercury	NC	1	NC	0.05
Nickel	NC	1	NC	0.35
Selenium	NC	1	NC	0.002
Silver	NC	1	NC	0.25
Thallium	NC	1	NC	0.01
Vanadium	NC	1	NC	0.03
Zinc	NC	1	NC	0.02
Cyanide	NC	1	NC	0.3

NC - Non-carcinogen  
MassDEP, 2008a.

Table 5

Exposure Assumptions and Equations for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

**Construction Worker - Soil: Table CW-2**  
**Equations to Calculate Cancer Risk for Construction Worker**

ShortForm Version 01-07

**Cancer Risk from Ingestion**

$$ELCR_{ing} = LADD_{ing} * CSF_{oral}$$

$$LADD_{ing} = \frac{EPC * IR * RAF_{c-ing} * EF * ED_{ing} * EP * C1}{BW * AP_{lifetime}}$$

**Cancer Risk from Dermal Absorption**

$$ELCR_{derm} = LADD_{derm} * CSF_{oral}$$

$$LADD_{derm} = \frac{EPC * SA * AF * RAF_{c-derm} * EF * ED_{derm} * EP * C1}{BW * AP_{lifetime}}$$

**Cancer Risk from Particulate Inhalation - Gastrointestinal Absorption**

$$ELCR_{inh-GI} = LADD_{inh-GI} * CSF_{oral}$$

$$LADD_{inh-GI} = \frac{EPC * RCAF_{inh-gi} * PM_{10} * VR_{work} * RAF_{c-ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

**Cancer Risk from Particulate Inhalation - Pulmonary Absorption**

$$ELCR_{inh} = LADD_{inh} * CSF_{inhalation}$$

$$LADD = \frac{EPC * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{c-inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM-specific	(mg/kg-day) <sup>-1</sup>
LADD	age/OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
RAF <sub>c-ing</sub>	OHM-specific	dimensionless
RAF <sub>c-derm</sub>	OHM-specific	dimensionless
RAF <sub>c-inh</sub>	OHM-specific	dimensionless
EF	0.714	event/day
ED <sub>ing &amp; derm</sub>	1	day/event
ED <sub>inh</sub>	0.333	day/event
EP	182	days
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/μg
C3	1440	min/days
C4	1.0E-03	m <sup>3</sup> /L
BW	58.0	kg
AP <sub>(lifetime)</sub>	25,550	days
VR <sub>work</sub>	60	L/min
AF	0.29	mg/cm <sup>2</sup>
SA	3473	cm <sup>2</sup> /day
RCAF <sub>inh-gi</sub>	1.5	dimensionless
RCAF <sub>inh</sub>	0.5	dimensionless
PM <sub>10</sub>	60	μg/m <sup>3</sup>

**Table 5 (Cont'd)**

**Exposure Assumptions and Equations for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates**

**Construction Worker - Soil: Table CW-3  
Equations to Calculate Noncancer Risk for Construction Worker**

ShortForm Version 01-07

**Noncancer Risk from Ingestion**

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{oral-subchronic}}$$

$$ADD_{ing} = \frac{EPC * IR * RAF_{nc-ing} * EF * ED_{ing} * EP * C1}{BW * AP_{noncancer}}$$

**Noncancer Risk from Dermal Absorption**

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{oral-subchronic}}$$

$$ADD_{dermal} = \frac{EPC * SA * AF * RAF_{nc-derm} * EF * ED_{dermal} * EP * C1}{BW * AP_{noncancer}}$$

**Noncancer Risk from Particulate Inhalation - Gastrointestinal Absorption**

$$HQ_{inh-GI} = \frac{ADD_{inh-GI}}{RfD_{oral-subchronic}}$$

$$ADD_{inh-GI} = \frac{EPC * RCAF_{inh-gi} * PM_{10} * VR_{work} * RAF_{nc-ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

**Noncancer Risk from Particulate Inhalation - Pulmonary Absorption**

$$HQ_{inh} = \frac{ADD}{RfD_{inhalation-subchronic}}$$

$$ADD_{inh} = \frac{EPC_{soil} * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{nc-inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Parameter	Value	Units
RfD	OHM-specific	mg/kg-day
ADD	OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
RAF <sub>nc-ing</sub>	OHM-specific	dimensionless
RAF <sub>nc-derm</sub>	OHM-specific	dimensionless
RAF <sub>nc-inh</sub>	OHM-specific	dimensionless
EF	0.714	event/day
EF <sub>cyanide</sub>	1	event/day
ED <sub>ing &amp; derm</sub>	1	day/event
ED <sub>inh</sub>	0.333	day/event
EP	182	days
EP <sub>cyanide</sub>	1.00	day
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/μg
C3	1440	min/days
C4	1.0E-03	m <sup>3</sup> /L
BW	58.0	kg
AP <sub>noncancer</sub>	182	days
AP <sub>cyanide</sub>	1	day
VR <sub>work</sub>	60	L/min
AF	0.29	mg/cm <sup>2</sup>
SA	3473	cm <sup>2</sup> /day
RCAF <sub>inh-gi</sub>	1.5	dimensionless
RCAF <sub>inh</sub>	0.5	dimensionless
PM10	60	μg/m <sup>3</sup>

Cyanide can cause a significant health risk from a one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Table 5 (Cont'd)

Exposure Assumptions and Equations for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

**Construction Worker - Soil: Table CW-4**  
**Definitions and Exposure Factors**

ShortForm Version 01-07

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
HI - Hazard Index	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) <sup>-1</sup>	see Table CW-5.
RD - Reference Dose	chemical specific	mg/kg-day	see Table CW-5.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-2.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-3.
EPC - Exposure Point Concentration	chemical specific	µg/L	see Table CW-1.
IR - Soil Ingestion Rate	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. ( <a href="http://www.mass.gov/dep/ors/orspubs.htm">http://www.mass.gov/dep/ors/orspubs.htm</a> ).
RAF <sub>c</sub> - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
RAF <sub>nc</sub> - Relative Absorption Factor for Noncancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
EF - Exposure Frequency	0.714	event/day	5 days/week; MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38.
EF <sub>cyanide</sub> - Exposure Frequency for Cyanide Exposures	1.00	event/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
ED <sub>ing,derm</sub> - Exposure Duration for ingestion or dermal exposure	1	day/event	
ED <sub>inh</sub> - Exposure Duration for inhalation exposure	0.333	day/event	Represents 8 hours / event.
EP - Exposure Period	182	days	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38
EP <sub>cyanide</sub> - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW - Body Weight	58.0	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, Females, ages 18 - 25.
AP <sub>(lifetime)</sub> - Averaging Period for lifetime	25,550	days	Represents 30 years
AP <sub>(noncancer)</sub> - Averaging Period for noncancer	182	days	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38
AP <sub>cyanide</sub> - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
AF - Adherence Factor	0.29	mg/cm <sup>2</sup>	MA DEP. 2002 Technical Update: Weighted Skin-Soil Adherence Factors. ( <a href="http://www.mass.gov/dep/ors/orspubs.htm">http://www.mass.gov/dep/ors/orspubs.htm</a> )
VR <sub>work</sub> - Ventilation Rate during work (heavy exertion)	60	L/min	Table B-4 MADEP 1995 Guidance for Disposal Site Risk Characterization.
SA - Surface Area	3473	cm <sup>2</sup> /day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. 50th percentile for females. Appendix Table B-2.
RCAF <sub>inh-gi</sub> - Relative Concentration Adjustment Factor, gastrointestinal	1.5	dimensionless	<b>MADEP 2007. Characterization of Risks Due to Inhalation of Particulates by Construction Workers</b>
RCAF <sub>inh</sub> - Relative Concentration Adjustment Factor, inhalation	0.5	dimensionless	MADEP 2002. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
PM10 - Concentration of PM <sub>10</sub>	60	µg/m <sup>3</sup>	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-11

**Table 6**  
**Exposure Assumptions and Equations for Resident -**  
**Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**

**Resident - Soil: Table RS-2**  
**Equations to Calculate Cancer Risk for Resident (Age 1-31 years)**

**Cancer Risk from Ingestion**

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ing(age\ group\ x)} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

**Cancer Risk from Dermal Absorption**

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{derm(age\ group\ x)} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

**Cancer Risk from Homegrown Produce**

$$ELCR_{produce} = LADD_{produce(1-31)} * CSF$$

$$LADD_{produce(1-31)} = LADD_{produce(1-8)} + LADD_{produce(8-15)} + LADD_{produce(15-31)}$$

$$LADD_{produce(age\ group\ x)} = \frac{[OHM]_{soil} * PUF * PIR_x * RAF_{produce} * EF_{produce} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Vlookup Version v0406

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) <sup>1</sup>
LADD	age/OHM specific	mg/kg-day
[OHM] <sub>soil</sub>	OHM specific	mg/kg
IR <sub>(1-8)</sub>	100	mg/day
IR <sub>(8-15)</sub>	50	mg/day
IR <sub>(15-31)</sub>	50	mg/day
PIR <sub>(1-8)</sub>	12,099	mg/day
PIR <sub>(8-15)</sub>	17,809	mg/day
PIR <sub>(15-31)</sub>	24,420	mg/day
RAF <sub>c-ing</sub>	OHM specific	dimensionless
RAF <sub>c-derm</sub>	OHM specific	dimensionless
RAF <sub>c-produce</sub>	OHM specific	dimensionless
EF <sub>ing,derm</sub>	0.412	event/day
EF <sub>produce</sub>	1	event/day
ED	1	day/event
EP <sub>(1-8)</sub>	7	years
EP <sub>(8-15)</sub>	7	years
EP <sub>(15-31)</sub>	16	years
C	0.00001	kg/mg
BW <sub>(1-8)</sub>	17	kg
BW <sub>(8-16)</sub>	39.9	kg
BW <sub>(16-31)</sub>	58.7	kg
AP <sub>(lifetime)</sub>	70	years
SA <sub>(1-8)</sub>	2431	cm <sup>2</sup> / day
SA <sub>(8-15)</sub>	4427	cm <sup>2</sup> / day
SA <sub>(15-31)</sub>	5653	cm <sup>2</sup> / day
SAF <sub>(1-8)</sub>	0.35	mg/cm <sup>2</sup>
SAF <sub>(8-15)</sub>	0.14	mg/cm <sup>2</sup>
SAF <sub>(15-31)</sub>	0.13	mg/cm <sup>2</sup>
PUF	OHM specific	(mg/mg)(mg/mg) <sup>1</sup>

**Table 6 (Cont'd)**  
**Exposure Assumptions and Equations for Resident -**  
**Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**

**Resident - Soil: Table RS-3**  
**Equations to Calculate Chronic Noncancer Risk for Resident Child (Age 1-8 years)**

Vlookup Version v0406

**Chronic Noncancer Risk from Ingestion**

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

**Chronic Noncancer Risk from Dermal Absorption**

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

**Chronic Noncancer Risk from Homegrown Produce**

$$HQ_{produce} = \frac{ADD_{produce}}{RfD}$$

$$ADD_{produce} = \frac{[OHM]_{soil} * PUF * PIR * RAF_{produce} * EF * ED_{produce} * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] <sub>soil</sub>	OHM specific	mg/kg
IR	100	mg/day
PIR	12,099	mg/day
RAF <sub>nc-ing</sub>	OHM specific	dimensionless
RAF <sub>nc-derm</sub>	OHM specific	dimensionless
RAF <sub>nc-produce</sub>	OHM specific	dimensionless
EF <sub>ing,derm</sub>	0.412	event/day
EF <sub>produce</sub>	1	event/day
EF <sub>cyanide</sub>	1	event/day
ED	1	day/event
EP	7	years
EP <sub>cyanide</sub>	1	day
C	0.000001	kg/mg
BW	17	kg
AP	7	year
AP <sub>cyanide</sub>	1	day
SA	2431	cm <sup>2</sup> / day
SAF	0.35	mg/cm <sup>2</sup>
PUF	OHM specific	(mg/mg)(mg/mg) <sup>-1</sup>

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

**Table 6 (Cont'd)**  
**Exposure Assumptions and Equations for Resident -**  
**Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**

**Resident - Soil: Table RS-4**  
**Equations to Calculate Subchronic Noncancer Risk for Resident Child (Age 1-2 years)**

Vlookup Version v0406

**Subchronic Noncancer Risk from Ingestion**

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

**Subchronic Noncancer Risk from Dermal Absorption**

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

**Subchronic Noncancer Risk from Homegrown Produce**

$$HQ_{produce} = \frac{ADD_{produce}}{RfD_{subchronic}}$$

$$ADD_{produce} = \frac{[OHM]_{soil} * PUF * PIR * RAF_{produce} * EF * ED_{produce} * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] <sub>soil</sub>	OHM specific	mg/kg
IR	100	mg/day
PIR	10,900	mg/day
RAF <sub>nc-ing</sub>	OHM specific	dimensionless
RAF <sub>nc-derm</sub>	OHM specific	dimensionless
RAF <sub>nc-produce</sub>	OHM specific	dimensionless
EF <sub>ing,derm</sub>	0.714	event/day
EF <sub>produce</sub>	1	event/day
EF <sub>cyanide</sub>	1	event/day
ED	1	day/event
EP <sub>cyanide</sub>	1	day
EP	0.577	years
C	0.000001	kg/mg
BW	10.7	kg
AP	0.577	year
AP <sub>cyanide</sub>	1	day
SA	1670	cm <sup>2</sup> / day
SAF	0.35	mg/cm <sup>2</sup>
PUF	OHM specific	(mg/mg)(mg/mg) <sup>-1</sup>

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

**Table 6 (Cont'd)**  
**Exposure Assumptions and Equations for Resident -**  
**Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**

**Resident - Soil: Table RS-5**  
**Definitions and Exposure Factors**

Vlookup Version v0406

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) <sup>-1</sup>	see Table RS-7
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
LADE - Lifetime Average Daily Exposure	chemical specific	µg/m <sup>3</sup>	
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
RD - Reference Dose	chemical specific	mg/kg-day	see Table RS-7
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
ADE - Average Daily Exposure	chemical specific	mg/m <sup>3</sup>	
EPC - Exposure Point Concentration	chemical specific	mg/kg	
PUF - Plant Uptake Factor	chemical specific	(mg/mg)/(mg/mg) <sup>1</sup>	See Table RS-7; (mg <sub>OHM</sub> /mg <sub>plant</sub> )/(mg <sub>OHM</sub> /mg <sub>soil</sub> ) <sup>-1</sup>
IR <sub>(1-2)</sub> - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm)
IR <sub>(1-8)</sub> - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid
IR <sub>(8-15)</sub> - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid
IR <sub>(15-31)</sub> - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid
PIR <sub>(1-2)</sub> = Produce Ingestion Rate for age group 1-2	10,900	mg/day	see Table RS-6
PIR <sub>(1-8)</sub> = Produce Ingestion Rate for age group 1-8	12,099	mg/day	see Table RS-6
PIR <sub>(8-15)</sub> = Produce Ingestion Rate for age group 8-15	17,809	mg/day	Ibid
PIR <sub>(15-31)</sub> = Produce Ingestion Rate for age group 15-31	24,420	mg/day	Ibid
RAF <sub>c</sub> - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	
EF <sub>subchronic</sub> - Exposure Frequency for subchronic ingestion or dermal exposure	0.714	event/day	5 days/week
EF <sub>chronic</sub> - Exposure Frequency for chronic ingestion or dermal exposure	0.412	event/day	5 days/week, 30 weeks/year
EF <sub>cancer</sub> - Exposure Frequency for cancer, ingestion or dermal exposure	0.412	event/day	5 days/week, 30 weeks/year
EF <sub>produce</sub> - Exposure Frequency for produce ingestion, cancer and noncancer	1	event/day	
EF <sub>cyanide</sub> - Exposure Frequency for subchronic and chronic non-cancer cyanide	1	event/day	
ED - Exposure Duration	1	day/event	
EP <sub>(1-2)</sub> - Exposure Period for age group 1-2	0.577	years	30 weeks
EP <sub>(1-8)</sub> - Exposure Period for age group 1-8	7	years	
EP <sub>(8-15)</sub> - Exposure Period for age group 8-15	7	years	
EP <sub>(15-31)</sub> - Exposure Period for age group 15-31	16	years	
EP <sub>cyanide</sub> - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW <sub>(1-2)</sub> - Body Weight for age group 1-2	10.7	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, females.
BW <sub>(1-8)</sub> - Body Weight for age group 1-8	17.0	kg	Ibid
BW <sub>(8-15)</sub> - Body Weight for age group 8-15	39.9	kg	Ibid
BW <sub>(15-31)</sub> - Body Weight for age group 15-31	58.7	kg	Ibid
AP <sub>subchronic</sub> - Averaging Period for subchronic noncancer	0.577	years	30 weeks
AP <sub>chronic</sub> - Averaging Period for chronic noncancer	7	years	
AP <sub>cancer</sub> - Averaging Period for lifetime	70	years	
AP <sub>cyanide</sub> - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
SA <sub>(1-2)</sub> - Surface Area for age group 1-2	1670	cm <sup>2</sup> / day	50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-2.
SA <sub>(1-8)</sub> - Surface Area for age group 1-8	2431	cm <sup>2</sup> / day	Ibid
SA <sub>(8-15)</sub> - Surface Area for age group 8-15	4427	cm <sup>2</sup> / day	Ibid
SA <sub>(15-31)</sub> - Surface Area for age group 15-31	5653	cm <sup>2</sup> / day	Ibid
SAF <sub>(1-2)</sub> - Surface Adherence Factor for age group 1-2	0.35	mg/cm <sup>2</sup>	All SAFs developed for ShortForm according to procedure outlined in MA DEP Technical Update:
SAF <sub>(1-8)</sub> - Surface Adherence Factor for age group 1-8	0.35	mg/cm <sup>2</sup>	Weighted Skin-Soil Adherence Factors, April 2002
SAF <sub>(8-15)</sub> - Surface Adherence Factor for age group 8-15	0.14	mg/cm <sup>2</sup>	
SAF <sub>(15-31)</sub> - Surface Adherence Factor for age group 15-31	0.13	mg/cm <sup>2</sup>	

## Table 6 (Cont'd)

### Exposure Assumptions and Equations for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

#### Resident - Soil: Table RS-6 Homegrown Produce Ingestion Rate

Vlookup Version v0406

Data on mean produce ingestion rates (wet weight, ww) in the Northeast was obtained from the 1994-1996 Continuing Survey of Food Intakes by Individuals (USDA). Data for both genders were used for children under 6, while data for males was used for individuals 6 and older. The mean ingestion rates presented in the survey represent the arithmetic average of all individuals surveyed, regardless of whether or not they had consumed the produce item (e.g., an individual that did not consume the produce item was assigned a rate of 0 g/day). To determine the mean ingestion rate for individuals who ate each produce item, the ingestion rate for all individuals (consumers and nonconsumers) was divided by the percentage of individuals who ate the item (Table RS-6A). These mean ingestion rates for the produce consumers were summed to determine the total produce ingestion rate for each age-group and converted to dry weight assuming the produce items were all 90% water.

To convert mean ingestion rates for the age-groups studied in the survey to age-groups used in risk calculations, each age-group ingestion rate from the survey (i.e., 1 - 2 year olds, 3 - 5 year olds, 6 - 11 year olds, 12 - 19 year olds, and 20 - 39 year olds) was weighted according to the number of years spent in the risk calculation age group (i.e., 1 - 8 year olds, 8 - 15 year olds, and 15 - 31 year olds) (Table RS-6B). It was assumed that 25% of produce ingested was home-grown (Table RS-6C).

Table RS-6A

Age-groups studied in survey	White Potatoes			Dark-green vegetables			Deep-yellow vegetables		
	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers
	g/d (ww)		g/d (ww)	g/d (ww)		g/d (ww)	g/d (ww)		g/d (ww)
1-2	28	40.3	69.5	6	10.1	59.4	5	12.7	39.4
3-5	30	37.1	80.9	5	6.5	76.9	7	12.7	55.1
6-11	47	44.2	106.3	6	9.1	65.9	2	8.5	23.5
12-19	59	40.3	146.4	2	2.3	87.0	11	15.8	69.6
20-39	76	45.1	168.5	25	14.7	170.1	4	5.7	70.2

Age-groups studied in survey	Tomatoes			Lettuce			Green Beans		
	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers
	g/d (ww)		g/d (ww)	g/d (ww)		g/d (ww)	g/d (ww)		g/d (ww)
1-2	10	27.9	35.8	1	6	16.7	7	12.1	57.9
3-5	10	37.1	27.0	4	14	28.6	3	5.7	52.6
6-11	20	42	47.6	8	14.9	53.7	1	2	50.0
12-19	29	45.2	64.2	19	28.7	66.2	2	2.4	83.3
20-39	48	50.9	94.3	18	29.6	60.8	4	3.7	108.1

**Table 6 (Cont'd)**  
**Exposure Assumptions and Equations for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**

Table RS-6A (continued)

Age-groups studied in survey	Corn, Green peas, Lima beans			Melons, berries			Totals	Totals
	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers	Ingestion Rate for All	% of individuals that consumed item.	Ingestion Rate for Consumers	Wet Weight WWI	Dry Weight DWI
	g/d (ww)		g/d (ww)	g/d (ww)		g/d (ww)	g/day	g/day
1-2	12	15	80.0	7	9	77.8	436.4	43.6
3-5	14	21.7	64.5	14	11.6	120.7	506.3	50.6
6-11	9	13.6	66.2	5	5.9	84.7	498.0	49.8
12-19	14	9.9	141.4	17	5	340.0	998.1	99.8
20-39	12	7.3	164.4	6	4.5	133.3	969.7	97.0

Table RS-6B

Age-groups studied in survey	Years spent in age-group for 1-8 year old	Years spent in age-group for 8-15 year old	Years spent in age-group for 15-31 year old
1-2	2		
3-5	3		
6-11	2	4	
12-19		3	4
20-39			12
	7	7	16

Table RS-6C

	Produce Intake, dry weight			
	Child 1-2 years g/day	Child 1-8 years g/day	Child 8-15 years g/day	Adult 15-31 g/day
<b>All Produce:</b>	43.6	48.4	71.2	97.7
<b>Homegrown:</b>	10.9	12.1	17.8	24.4

**Table 7**

**Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil**

**Trespasser - Soil: Table TS-2  
Equations to Calculate Cancer Risk for a Trespasser (Age 11-18 years)**

Vlookup Version v0207

**Cancer Risk from Ingestion**

$$ELCR_{ing} = LADD_{ing} * CSF$$

$$LADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{c-ing} * EF_{ing} * ED * EP * C}{BW * AP_{lifetime}}$$

**Cancer Risk from Dermal Absorption**

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{c-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) <sup>-1</sup>
LADD	age/OHM specific	mg/kg-day
[OHM] <sub>soil</sub>	OHM specific	mg/kg
IR	50	mg/day
RAF <sub>c-ing</sub>	OHM specific	dimensionless
RAF <sub>c-derm</sub>	OHM specific	dimensionless
EF <sub>ing,derm</sub>	0.164	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	50.7	kg
AP <sub>(lifetime)</sub>	70	years
SA	2940	cm <sup>2</sup> / day
SAF	0.14	mg/cm <sup>2</sup>

**Table 7 (Cont'd)**

**Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil**

**Trespasser - Soil: Table TS-3  
Equations to Calculate Chronic Noncancer Risk for a Trespasser (Age 11-18 years)**

Vlookup Version v0207

**Chronic Noncancer Risk from Ingestion**

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

**Chronic Noncancer Risk from Dermal Absorption**

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] <sub>soil</sub>	OHM specific	mg/kg
IR	50	mg/day
RAF <sub>nc-ing</sub>	OHM specific	dimensionless
RAF <sub>nc-derm</sub>	OHM specific	dimensionless
EF <sub>ing,derm</sub>	0.164	event/day
EF <sub>cyanide</sub>	1.00	event/day
ED	1	day/event
EP	7	years
EP <sub>cyanide</sub>	1	day
C	0.000001	kg/mg
BW	50.7	kg
AP	7	year
AP <sub>cyanide</sub>	1	day
SA	2940	cm <sup>2</sup> / day
SAF	0.14	mg/cm <sup>2</sup>

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

**Table 7 (Cont'd)**

**Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil**

**Trespasser - Soil: Table TS-4  
Equations to Calculate Subchronic Noncancer Risk for a Trespasser (Age 11-12 years)**

Vlookup Version v0207

**Subchronic Noncancer Risk from Ingestion**

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

**Subchronic Noncancer Risk from Dermal Absorption**

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] <sub>soil</sub>	OHM specific	mg/kg
IR	50	mg/day
RAF <sub>nc-ing</sub>	OHM specific	dimensionless
RAF <sub>nc-derm</sub>	OHM specific	dimensionless
EF <sub>ing,derm</sub>	0.286	event/day
EF <sub>cyanide</sub>	1.00	event/day
ED	1	day/event
EP <sub>cyanide</sub>	1	day
EP	0.577	years
C	0.000001	kg/mg
BW	40.3	kg
AP	0.577	year
AP <sub>cyanide</sub>	1	day
SA	2477	cm <sup>2</sup> / day
SAF	0.14	mg/cm <sup>2</sup>

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

**Table 7 (Cont'd)**

**Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil**

**Trespasser - Soil: Table TS-5  
Definitions and Exposure Factors**

Vlookup Version v0207

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	(mg/kg-day) <sup>-1</sup>	see Table RS-7
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
RfD - Reference Dose	chemical specific	mg/kg-day	see Table RS-7
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR - Soil Ingestion Rate	50	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate.
RAF <sub>c</sub> - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	
EF <sub>subchronic</sub> - Exposure Frequency for subchronic ingestion or dermal exposure	0.286	event/day	<a href="http://www.mass.gov/dep/ors/orspubs.htm">http://www.mass.gov/dep/ors/orspubs.htm</a>
EF <sub>chronic</sub> - Exposure Frequency for chronic ingestion or dermal exposure	0.164	event/day	2 days/week, 30 weeks/year
EF <sub>cancer</sub> - Exposure Frequency for cancer, ingestion or dermal exposure	0.164	event/day	2 days/week, 30 weeks/year
EF <sub>cyanide</sub> - Exposure Frequency for cyanide exposure	1.00	event/day	
ED - Exposure Duration	1	day/event	
EP <sub>(11-12)</sub> - Exposure Period for age group 11-12	0.577	years	30 weeks
EP <sub>(11-18)</sub> - Exposure Period for age group 11-18	7	years	
EP <sub>cyanide</sub> - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW <sub>(11-12)</sub> - Body Weight for age group 11-12	40.3	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7
BW <sub>(11-18)</sub> - Body Weight for age group 11-18	50.7	kg	Ibid
AP <sub>subchronic</sub> - Averaging Period for subchronic noncancer	0.577	years	30 weeks
AP <sub>chronic</sub> - Averaging Period for chronic noncancer	7	years	
AP <sub>cancer</sub> - Averaging Period for lifetime	70	years	
AP <sub>cyanide</sub> - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
SA <sub>(11-12)</sub> - Surface Area for age group 11-12	2477	cm <sup>2</sup> / day	50th percentile of forearms, hands, and feet for females. MADEP 1995 Guidance for Disposal Site Risk Characterization, Table B-2.
SA <sub>(11-18)</sub> - Surface Area for age group 11-18	2940	cm <sup>2</sup> / day	Ibid
SAF - Surface Adherence Factor, Trespasser	0.14	mg/cm <sup>2</sup>	SAF developed for ShortForm according to procedure outlined in MA DEP Technical Update:

Weighted Skin-Soil Adherence Factors, April 2002.

**Table 8A**  
**Soil Exposure Point Concentrations (EPCs) - EPH and PAHs**  
**16 Blackmer Street**  
**New Bedford, MA**

**SOUTH AREA**

<b>SAMPLE IDENTIFICATION</b>	<b>SS-04A</b>	<b>SS-04B</b>	<b>CSS-2</b>	<b>CSS-500*</b>	<b>CSS-2/-500</b>	<b>CGW1/S-3</b>	<b>EPC</b>
<b>SAMPLE DEPTH (FT)</b>	<b>0-3</b>	<b>0-3</b>	<b>0-3</b>	<b>0-3</b>	<b>0-3</b>	<b>0-2</b>	<b>0-3</b>
<b>COLLECTION DATE</b>	<b>09/28/99</b>	<b>09/28/99</b>	<b>03/06/00</b>	<b>03/06/00</b>	<b>Average</b>	<b>03/07/00</b>	<b>Average</b>
<b>TARGET EPH</b>							
C9-C18 Aliphatic Hydrocarbons	3.2	ND	ND	ND	ND	ND	3.2
C19-C36 Aliphatic Hydrocarbons	50	19	29	27	28	32	32
C11-C22 Aromatic Hydrocarbons	180	120	78	120	99	180	145
<b>PAHs</b>							
Naphthalene	0.45	0.51	ND	ND	ND	0.74	0.57
2-Methylnaphthalene	0.44	0.25	5.0	ND	5.0	ND	1.9
Acenaphthene	0.47	1.2	ND	0.9	0.9	2.1	1.2
Phenanthrene	11	14	5.4	7.9	6.7	23	14
Acenaphthylene	1.2	0.7	ND	ND	ND	ND	1.0
Fluorene	1.6	1.4	0.64	0.99	0.8	2.8	1.7
Anthracene	3.3	4.2	1.4	2.3	1.9	6.5	4.0
Fluoranthene	16	21	7.6	9.6	8.6	23	17
Pyrene	20	19	7.6	9.7	8.7	22	17
Benz[a]Anthracene	8.9	10	3.5	4.5	4.0	9.8	8.2
Chrysene	8.4	9.9	3.8	4.9	4.4	10	8.2
Benzo[b]Fluoranthene	7.7	9.1	3.9	5.1	4.5	9.7	7.8
Benzo[k]Fluoranthene	5	11	1.6	2.5	2.1	4.6	5.7
Benzo[a]Pyrene	8.2	11	3.2	4.1	3.7	8.4	7.8
Indeno[1,2,3-c,d]Pyrene	7.5	7.4	2.6	4.0	3.3	6.5	6.2
Dibenzo[a,h]Anthracene	7.5	2.5	2.6	4.0	3.3	6.5	5.0
Benzo[g,h,i]Perylene	5.3	8.3	2.0	3.6	2.8	4.7	5.3
Coal Ash			NA	NA		NA	
<p>* Duplicate of CSS-2            ND - Not Detected by lab method  <u>Underline italics</u> equals one half the laboratory detection limit</p>							

**Table 8A**  
**Soil Exposure Point Concentrations (EPCs) - EPH and PAHs**  
**16 Blackmer Street**  
**New Bedford, MA**

**SOUTH AREA**

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	SS-04A 0-3 09/28/99	SS-04B 0-3 09/28/99	CSS-2/-500 0-3 Average	CGW1/S-3 0-2 03/07/00	CSS-2 3-6 03/06/00	CSS-500* 3-6 03/06/00	CSS-2/-500 3-6 Average	BH2 2.5-4 05/25/06	BH2 4-6.5 05/25/06	EPC 0-6.5 Average
<b>TARGET EPH</b>										
C9-C18 Aliphatic Hydrocarbons	3.2	ND	ND	ND	ND	ND	ND	6.6	5.9	5.2
C19-C36 Aliphatic Hydrocarbons	50	19	28	32	17	16	16.5	32.2	19.2	28
C11-C22 Aromatic Hydrocarbons	180	120	99	180	280	240	260	117	177	162
<b>PAHs</b>										
Naphthalene	0.45	0.51	ND	0.7	2.2	0.55	1.4	0.203	0.28	0.6
2-Methylnaphthalene	0.44	0.25	5.0	ND	0.86	ND	0.9	<i>0.033</i>	<i>0.029</i>	1.1
Acenaphthene	0.47	1.2	0.9	2.1	2	0.85	1.4	0.405	0.689	1.0
Phenanthrene	11	14	6.7	23.0	36	27	32	5.77	8.26	14
Acenaphthylene	1.2	0.7	ND	ND	0.6	0.54	0.6	0.213	0.276	0.6
Fluorene	1.6	1.4	0.8	2.8	3.8	2.2	3.0	0.495	0.795	1.6
Anthracene	3.3	4.2	1.9	6.5	8.3	6.4	7.4	1.13	1.72	3.7
Fluoranthene	16	21	8.6	23.0	41	35	38	8.43	10.8	18
Pyrene	20	19	8.7	22.0	38	32	35	7.11	8.91	17
Benz[a]Anthracene	8.9	10	4.0	9.8	17	16	16.5	3.47	4.38	8.2
Chrysene	8.4	9.9	4.4	10.0	16	13	14.5	3.47	4.47	7.9
Benzo[b]Fluoranthene	7.7	9.1	4.5	9.7	18	14	16.0	<i>0.0985</i>	<i>0.088</i>	6.7
Benzo[k]Fluoranthene	5	11	2.1	4.6	3.5	5.6	4.6	<i>0.066</i>	<i>0.059</i>	3.9
Benzo[a]Pyrene	8.2	11	3.7	8.4	13	11	12.0	<i>0.066</i>	<i>0.059</i>	6.2
Indeno[1,2,3-c,d]Pyrene	7.5	7.4	3.3	6.5	10	9.2	9.6	<i>0.0329</i>	<i>0.0294</i>	4.9
Dibenzo[a,h]Anthracene	7.5	2.5	3.3	6.5	10	9.2	9.6	<i>0.066</i>	<i>0.059</i>	4.2
Benzo[g,h,i]Perylene	5.3	8.3	2.8	4.7	7.3	6.7	7.0	<i>0.066</i>	<i>0.059</i>	4.0
Coal Ash				NA	NA	NA		NA	COAL ASH	
* Duplicate of CSS-2 ND - Not Detected by lab method <u><i>Underline italics</i></u> equals one half the laboratory detection limit										

**Table 8A (cont'd.)**  
**Soil Exposure Point Concentrations (EPCs) - EPH and PAHs**  
**16 Blackmer Street**  
**New Bedford, MA**

**NORTH AREA**

<b>SAMPLE IDENTIFICATION</b>	<b>BH1</b>	<b>CSE TP-1</b>	<b>CSE TP-2</b>	<b>CSE TP-3</b>	<b>Duplicate 3</b>	<b>CSE TP-3</b>	<b>EPC</b>
<b>SAMPLE DEPTH (FT)</b>	<b>0-2.5</b>	<b>0-3</b>	<b>0-3</b>	<b>0-3</b>	<b>(CSETP3 0-3')</b>	<b>0-3</b>	<b>0-3</b>
<b>COLLECTION DATE</b>	<b>05/25/06</b>	<b>05/25/06</b>	<b>05/25/06</b>	<b>05/25/06</b>	<b>05/25/06</b>	<b>Average</b>	<b>Average</b>
<b>TARGET EPH</b>							
C9-C18 Aliphatic Hydrocarbons	<11.5	<11.5	<12.2	<14.5	<13.2	ND	ND
C19-C36 Aliphatic Hydrocarbons	20.2	<u>7.3</u>	15.2	12.7	44.1	28.4	18.6
C11-C22 Aromatic Hydrocarbons	292.0	<u>7.3</u>	902.0	337.0	613.0	475.0	419.1
<b>PAHs</b>							
Naphthalene	0.147	<u>0.036</u>	<u>0.038</u>	0.210	0.185	0.20	0.10
2-Methylnaphthalene	<u>0.029</u>	<u>0.036</u>	<u>0.038</u>	<u>0.030</u>	<u>0.031</u>	ND	0.03
Acenaphthene	0.602	<u>0.073</u>	<u>0.076</u>	0.301	0.827	0.56	0.33
Phenanthrene	25.800	0.380	36.400	9.350	21.500	15.43	19.50
Acenaphthylene	1.260	<u>0.036</u>	1.390	0.619	0.731	0.68	0.84
Fluorene	1.830	0.018	1.320	0.535	1.410	0.97	1.04
Anthracene	4.660	<u>0.036</u>	7.840	1.600	3.700	2.65	3.80
Fluoranthene	33.000	0.357	64.700	20.700	33.600	27.15	31.30
Pyrene	27.800	0.304	59.500	18.300	33.300	25.80	28.35
Benz[a]Anthracene	12.100	0.186	29.400	9.850	15.700	12.78	13.62
Chrysene	11.300	0.275	26.000	9.870	16.400	13.14	12.68
Benzo[b]Fluoranthene	<0.172	<0.217	<0.227	<0.181	<0.185	ND	ND
Benzo[k]Fluoranthene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
Benzo[a]Pyrene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
Indeno[1,2,3-c,d]Pyrene	<0.0575	<0.0725	<0.0758	<0.0602	<0.0617	ND	ND
Dibenzo[a,h]Anthracene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
Benzo[g,h,i]Perylene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
<b>COAL ASH</b>	NA	COAL ASH	NA	NA	NA		
Underline italics equals one-half the laboratory detection limit NA - Not Analyzed ND - Not Detected							

**Table 8A (cont'd.)**  
**Soil Exposure Point Concentrations (EPCs) - EPH and PAHs**  
**16 Blackmer Street**  
**New Bedford, MA**

**NORTH AREA**

<b>SAMPLE IDENTIFICATION</b>	<b>BH1</b>	<b>BH-1</b>	<b>CSE TP-1</b>	<b>CSE TP-1</b>	<b>CSE TP-2</b>	<b>CSE TP-2</b>	<b>CSE TP-3</b>	<b>Duplicate 3</b>	<b>CSE TP-3</b>	<b>CSE TP-3</b>	<b>EPC</b>
<b>SAMPLE DEPTH (FT)</b>	<b>0-2.5</b>	<b>2.5-5</b>	<b>0-3</b>	<b>3-6</b>	<b>0-3</b>	<b>3-6</b>	<b>0-3</b>	<b>(CSETP3 0-3')</b>	<b>0-3</b>	<b>3-6</b>	<b>0-6</b>
<b>COLLECTION DATE</b>	<b>05/25/06</b>	<b>Average</b>	<b>05/25/06</b>	<b>Average</b>							
<b>TARGET EPH</b>											
C9-C18 Aliphatic Hydrocarbons	<11.5	<12.2	<14.5	<13.2	<15.2	<15.4	<12.0	<12.3	ND	<13.3	ND
C19-C36 Aliphatic Hydrocarbons	20.2	83.4	<u>7.3</u>	<u>6.6</u>	15.2	54.7	12.7	44.1	28.4	<u>6.7</u>	29.6
C11-C22 Aromatic Hydrocarbons	292.0	242.0	<u>7.3</u>	<u>6.6</u>	902.0	84.3	337.0	613.0	475.0	<u>6.7</u>	252.0
<b>PAHs</b>											
Naphthalene	0.147	0.239	<u>0.036</u>	<u>0.033</u>	<u>0.038</u>	<u>0.038</u>	0.210	0.185	0.20	<u>0.033</u>	0.10
2-Methylnaphthalene	<u>0.029</u>	<u>0.030</u>	<u>0.036</u>	<u>0.033</u>	<u>0.038</u>	<u>0.038</u>	<u>0.030</u>	<u>0.031</u>	ND	<u>0.033</u>	ND
Acenaphthene	0.602	0.420	<u>0.073</u>	0.132	<u>0.076</u>	<u>0.077</u>	0.301	0.827	0.56	<u>0.067</u>	0.25
Phenanthrene	25.800	6.740	0.380	<u>0.033</u>	36.400	1.500	9.350	21.500	15.43	<u>0.033</u>	10.79
Acenaphthylene	1.260	0.307	<u>0.036</u>	<u>0.033</u>	1.390	0.246	0.619	0.731	0.68	<u>0.033</u>	0.50
Fluorene	1.830	0.505	<u>0.018</u>	<u>0.016</u>	1.320	<u>0.019</u>	0.535	1.410	0.97	<u>0.017</u>	0.59
Anthracene	4.660	1.300	<u>0.036</u>	<u>0.033</u>	7.840	0.317	1.600	3.700	2.65	<u>0.033</u>	2.11
Fluoranthene	33.000	11.400	0.357	<u>0.132</u>	64.700	3.170	20.700	33.600	27.15	<u>0.134</u>	17.51
Pyrene	27.800	10.100	0.304	<u>0.132</u>	59.500	2.950	18.300	33.300	25.80	<u>0.134</u>	15.84
Benz[a]Anthracene	12.100	4.900	0.186	<u>0.066</u>	29.400	1.310	9.850	15.700	12.78	<u>0.067</u>	7.60
Chrysene	11.300	5.110	0.275	<u>0.066</u>	26.000	1.460	9.870	16.400	13.14	<u>0.067</u>	7.18
Benzo[b]Fluoranthene	<0.172	<0.183	<0.217	<0.197	<0.227	<0.231	<0.181	<0.185	ND	<0.200	ND
Benzo[k]Fluoranthene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
Benzo[a]Pyrene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
Indeno[1,2,3-c,d]Pyrene	<0.0575	<0.0610	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	ND	<0.0667	ND
Dibenzo[a,h]Anthracene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
Benzo[g,h,i]Perylene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
<b>COAL ASH</b>	NA	NA	COAL ASH	NA	NA	NA	NA	NA	NA	NA	

Underline italics equals one-half the laboratory detection limit

NA - Not Analyzed

ND - Not Detected

**Table 8B**  
**Soil Exposure Point Concentrations (EPCs) - PCBs**  
**16 Blackmer Street**  
**New Bedford, MA**

**SOUTH AREA**

<b>SAMPLE IDENTIFICATION</b>	<b>SS-04A</b>	<b>SS-04B</b>	<b>CGW1/S-3</b>	<b>EPC</b>	<b>SS-04A</b>	<b>SS-04B</b>	<b>CGW1/S-3</b>	<b>BH2</b>	<b>EPC</b>
<b>SAMPLE DEPTH (FT)</b>	0-3	0-3	0-2	0-2.5	0-3	0-3	0-2	2.5-4	0-5
<b>COLLECTION DATE</b>	09/28/99	09/28/99	03/07/00		09/28/99	09/28/99	03/07/00	05/25/06	<b>Average</b>
<b>POLYCHLORINATED BIPHENYLS (PCBs)</b>									
Aroclor 1254	ND	1.7	ND	1.7	ND	1.7	ND	0.105	0.9

ND - Not Detected by lab method

Underline italics equals one half the laboratory detection limit

NA - Not Analyzed

**Table 8C**  
**Soil Exposure Point Concentrations (EPCs) - Lead**  
**16 Blackmer Street**  
**New Bedford, MA**

**SOUTH AREA**

**Surficial Soils (0-3)**

Sample Identification Number	Sample Depth (ft)	Collection Date	Lead mg/kg
CSS-01	0-3	3/6/2000	260
CSS-2/CSS-500 (average)	0-3	3/6/2000	510
CSS-3	0-3	3/6/2000	2,500
CSS-4	0-3	3/6/2000	530
CSS-5	0-3	3/6/2000	310
SS-04A	0-3	9/28/99	3,640
		<b>Subarea average</b>	<b>1,292</b>
CGW-1/S-3	0-2	3/7/2000	490
BH2	0-2.5	5/28/2006	313
TP-8	0-3	5/9/2000	250
SS-04B	0-3	9/28/99	379
		<b>Subarea average</b>	<b>358</b>
TP-5/TP-X (average)	0-3	5/9/2000	160
TP-6	0-3	5/9/2000	930
<b>Surficial Soils</b>	<b>0-3</b>	<b>Overall Average</b>	<b>685</b>

**Surficial and Subsurface Soils (0-6.5)**

CSS-01	0-3	3/6/2000	260
CSS-1	3-6	3/6/2000	130
CSS-2/CSS-500 (average)	0-3	3/6/2000	510
CSS-2/CSS-500 (average)	3-6	3/6/2000	185
CSS-3	0-3	3/6/2000	2,500
CSS-3	3-6	3/6/2000	160
CSS-4	0-3	3/6/2000	530
CSS-4	3-6	3/6/2000	190
CSS-5	0-3	3/6/2000	310
CSS-5	3-6	3/6/2000	150
SS-04A	0-3	9/28/99	3,640
		<b>Subarea average</b>	<b>779</b>
CGW-1/S-3	0-2	3/7/2000	490
BH2	0-2.5	5/28/2006	313
BH2/Duplicate 2 (average)	2.5-4	5/28/2006	355
BH2	4-6.5	5/28/2006	5,780
TP-8	0-3	5/9/2000	250
SS-04B	0-3	9/28/99	379
		<b>Subarea average</b>	<b>1,261</b>
TP-5/TP-X (average)	0-3	5/9/2000	160
TP-6	0-3	5/9/2000	930
<b>Surficial and Subsurface Soils</b>	<b>0-6.5</b>	<b>Overall Average</b>	<b>782</b>

Upper Concentration Limit (Method 3)

3,000

**Table 9**  
**Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne**  
**Particulates**  
**South Area (0-3')**

**Construction Worker - Soil: Table CW-1**  
**Exposure Point Concentration (EPC) and Risk**  
**Based on Construction Worker 18-25 years of age**

ShortForm Version 01-07

Vlookup Version v0207

ELCR (all chemicals) = 6E-07  
 HI (all chemicals) = 8E-01

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

Click on empty cell below and select OHM using arrow.

Oil or Hazardous <b>Material (OHM)</b>	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	ELCR <sub>total</sub>	Subchronic				HQ <sub>total</sub>
							HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>inh-GI</sub>	HQ <sub>inh</sub>	
Aliphatics C9 to C18	3.2E+00						3.9E-06	2.0E-05	1.0E-07	2.0E-07	2.4E-05
Aliphatics C19 to C36	3.2E+01						6.6E-06	6.6E-06	1.7E-07		1.3E-05
Aromatics C11 to C22	1.5E+02						2.1E-04	6.0E-04	5.6E-06	1.1E-05	8.3E-04
Naphthalene	5.7E-01						1.3E-06	3.5E-06	3.3E-08	7.1E-06	1.2E-05
Methylnaphthalene, 2-	1.9E+00						2.1E-05	5.9E-05	5.5E-07	1.4E-07	8.1E-05
Acenaphthene	1.2E+00						8.9E-07	2.5E-06	2.3E-08	8.9E-08	3.5E-06
Phenanthrene	1.4E+01						2.1E-05	5.8E-05	5.4E-07	1.0E-06	8.0E-05
Acenaphthylene	1.0E+00						1.5E-06	4.1E-06	3.8E-08	7.4E-08	5.7E-06
Fluorene	1.7E+00						1.9E-06	5.3E-06	4.9E-08	1.3E-07	7.3E-06
Anthracene	4.0E+00						5.9E-07	1.7E-06	1.5E-08	3.0E-07	2.6E-06
Fluoranthene	1.7E+01						1.9E-05	5.3E-05	4.9E-07	1.3E-06	7.3E-05
Pyrene	1.7E+01						2.5E-05	7.0E-05	6.5E-07	1.3E-06	9.7E-05
Benzo(a)anthracene	8.2E+00	1.5E-08	1.1E-08	3.8E-10	4.5E-10	2.6E-08	9.4E-06	6.8E-06	2.4E-07	6.1E-07	1.7E-05
Chrysene	8.2E+00	1.5E-09	1.1E-09	3.8E-11	4.5E-11	2.6E-09	9.4E-06	6.8E-06	2.4E-07	6.1E-07	1.7E-05
Benzo(b)fluoranthene	7.8E+00	1.4E-08	1.0E-08	3.6E-10	4.3E-10	2.5E-08	9.0E-06	6.5E-06	2.3E-07	5.8E-07	1.6E-05
Benzo(k)fluoranthene	5.7E+00	1.0E-09	7.4E-10	2.6E-11	3.2E-11	1.8E-09	6.6E-06	4.7E-06	1.7E-07	4.2E-07	1.2E-05
Benzo(a)pyrene	7.8E+00	1.4E-07	1.0E-07	3.6E-09	4.3E-09	2.5E-07	9.0E-06	6.5E-06	2.3E-07	5.8E-07	1.6E-05
Indeno(1,2,3-cd)pyrene	6.2E+00	1.1E-08	8.0E-09	2.9E-10	3.4E-10	2.0E-08	7.1E-06	5.1E-06	1.8E-07	4.6E-07	1.3E-05
Dibenzo(a,h)anthracene	5.0E+00	9.0E-08	6.5E-08	2.3E-09	2.8E-09	1.6E-07	5.7E-06	4.1E-06	1.5E-07	3.7E-07	1.0E-05
Benzo(g,h,i)perylene	5.3E+00						7.8E-06	2.2E-05	2.0E-07	3.9E-07	3.0E-05
Polychlorinated biphenyls (PCBs)	1.7E+00	2.5E-08	4.8E-08	6.6E-10	4.5E-11	7.4E-08	3.6E-02	6.7E-02	9.2E-04	3.2E-03	1.1E-01
Lead	6.9E+02						5.6E-01	6.8E-02	1.5E-02	2.6E-02	6.7E-01

Table 9 (cont'd.)

Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne  
 Particulates  
 South Area Subsurface (0-6.5')

**Construction Worker - Soil: Table CW-1**  
**Exposure Point Concentration (EPC) and Risk**  
**Based on Construction Worker 18-25 years of age**

ShortForm Version 01-07

Vlookup Version v0207

ELCR (all chemicals) = 4E-07  
 HI (all chemicals) = 8E-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 <sub>total</sub>	Subchronic				HQ <sub>total</sub>
							HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>inh-GI</sub>	HQ <sub>inh</sub>	
Aliphatics C9 to C18	5.2E+00						6.4E-06	3.2E-05	1.7E-07	3.2E-07	3.9E-05
Aliphatics C19 to C36	2.8E+01						5.7E-06	5.8E-06	1.5E-07		1.2E-05
Aromatics C11 to C22	1.6E+02						2.4E-04	6.7E-04	6.2E-06	1.2E-05	9.3E-04
Naphthalene	6.0E-01						1.3E-06	3.7E-06	3.4E-08	7.4E-06	1.3E-05
Methylnaphthalene, 2-	1.1E+00						1.2E-05	3.4E-05	3.2E-07	8.2E-08	4.7E-05
Acenaphthene	1.0E+00						7.4E-07	2.1E-06	1.9E-08	7.4E-08	2.9E-06
Phenanthrene	1.4E+01						2.1E-05	5.8E-05	5.4E-07	1.0E-06	8.0E-05
Acenaphthylene	6.0E-01						8.9E-07	2.5E-06	2.3E-08	4.5E-08	3.4E-06
Fluorene	1.6E+00						1.8E-06	5.0E-06	4.6E-08	1.2E-07	6.9E-06
Anthracene	3.7E+00						5.5E-07	1.5E-06	1.4E-08	2.8E-07	2.4E-06
Fluoranthene	1.8E+01						2.0E-05	5.6E-05	5.2E-07	1.3E-06	7.8E-05
Pyrene	1.7E+01						2.5E-05	7.0E-05	6.5E-07	1.3E-06	9.7E-05
Benzo(a)anthracene	8.2E+00	1.5E-08	1.1E-08	3.8E-10	4.5E-10	2.6E-08	9.4E-06	6.8E-06	2.4E-07	6.1E-07	1.7E-05
Chrysene	7.9E+00	1.4E-09	1.0E-09	3.7E-11	4.4E-11	2.5E-09	9.1E-06	6.5E-06	2.4E-07	5.9E-07	1.6E-05
Benzo(b)fluoranthene	6.7E+00	1.2E-08	8.6E-09	3.1E-10	3.7E-10	2.1E-08	7.7E-06	5.5E-06	2.0E-07	5.0E-07	1.4E-05
Benzo(k)fluoranthene	3.9E+00	7.0E-10	5.0E-10	1.8E-11	2.2E-11	1.2E-09	4.5E-06	3.2E-06	1.2E-07	2.9E-07	8.1E-06
Benzo(a)pyrene	6.2E+00	1.1E-07	8.0E-08	2.9E-09	3.4E-09	2.0E-07	7.1E-06	5.1E-06	1.8E-07	4.6E-07	1.3E-05
Indeno(1,2,3-cd)pyrene	4.9E+00	8.8E-09	6.3E-09	2.3E-10	2.7E-10	1.6E-08	5.6E-06	4.1E-06	1.5E-07	3.6E-07	1.0E-05
Dibenzo(a,h)anthracene	4.2E+00	7.5E-08	5.4E-08	2.0E-09	2.3E-09	1.3E-07	4.8E-06	3.5E-06	1.3E-07	3.1E-07	8.7E-06
Benzo(g,h,i)perylene	4.0E+00						5.9E-06	1.7E-05	1.5E-07	3.0E-07	2.3E-05
Polychlorinated biphenyls (PCBs)	9.0E-01	1.3E-08	2.5E-08	3.5E-10	2.4E-11	3.9E-08	1.9E-02	3.6E-02	4.9E-04	1.7E-03	5.7E-02
Lead	7.8E+02						6.4E-01	7.8E-02	1.7E-02	2.9E-02	7.7E-01

**Table 9**  
**Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne**  
**Particulates**  
**North Area (0-3')**

**Construction Worker - Soil: Table CW-1**  
**Exposure Point Concentration (EPC) and Risk**  
**Based on Construction Worker 18-25 years of age**

ShortForm Version 01-07

Vlookup Version v0207

ELCR (all chemicals) = 5E-08  
 HI (all chemicals) = 3E-03

**\*\*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 <sub>total</sub>	Subchronic				HQ <sub>total</sub>
							HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>inh-GI</sub>	HQ <sub>inh</sub>	
Aliphatics C19 to C36	1.9E+01						3.8E-06	3.8E-06	9.9E-08		7.8E-06
Aromatics C11 to C22	4.2E+02						6.2E-04	1.7E-03	1.6E-05	3.1E-05	2.4E-03
Naphthalene	1.0E-01						2.2E-07	6.2E-07	5.7E-09	1.2E-06	2.1E-06
Methylnaphthalene, 2-	3.0E-02						3.3E-07	9.3E-07	8.6E-09	2.2E-09	1.3E-06
Acenaphthene	3.3E-01						2.4E-07	6.8E-07	6.3E-09	2.5E-08	9.6E-07
Phenanthrene	2.0E+01						2.9E-05	8.1E-05	7.5E-07	1.5E-06	1.1E-04
Acenaphthylene	8.4E-01						1.2E-06	3.5E-06	3.2E-08	6.3E-08	4.8E-06
Fluorene	1.0E+00						1.2E-06	3.2E-06	3.0E-08	7.7E-08	4.5E-06
Anthracene	3.8E+00						5.6E-07	1.6E-06	1.5E-08	2.8E-07	2.4E-06
Fluoranthene	3.1E+01						3.5E-05	9.7E-05	9.0E-07	2.3E-06	1.3E-04
Pyrene	2.8E+01						4.2E-05	1.2E-04	1.1E-06	2.1E-06	1.6E-04
Benzo(a)anthracene	1.4E+01	2.4E-08	1.8E-08	6.3E-10	7.5E-10	4.3E-08	1.6E-05	1.1E-05	4.1E-07	1.0E-06	2.8E-05
Chrysene	1.3E+01	2.3E-09	1.6E-09	5.9E-11	7.0E-11	4.0E-09	1.5E-05	1.0E-05	3.8E-07	9.4E-07	2.6E-05
Benzo(b)fluoranthene	ND										
Benzo(k)fluoranthene	ND										
Benzo(a)pyrene	ND										
Indeno(1,2,3-cd)pyrene	ND										
Dibenzo(a,h)anthracene	ND										
Benzo(g,h,i)perylene	ND										

Table 9 (cont'd.)

Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates  
North Area Subsurface (0-6')

**Construction Worker - Soil: Table CW-1**  
**Exposure Point Concentration (EPC) and Risk**  
**Based on Construction Worker 18-25 years of age**

ShortForm Version 01-07

Vlookup Version v0207

ELCR (all chemicals) = 3E-08  
HI (all chemicals) = 2E-03

**\*\*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 <sub>total</sub>	Subchronic				HQ <sub>total</sub>
							HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>inh-GI</sub>	HQ <sub>inh</sub>	
Aliphatics C19 to C36	3.0E+01						6.1E-06	6.1E-06	1.6E-07		1.2E-05
Aromatics C11 to C22	2.5E+02						3.7E-04	1.0E-03	9.7E-06	1.9E-05	1.4E-03
Naphthalene	1.0E-01						2.2E-07	6.2E-07	5.7E-09	1.2E-06	2.1E-06
Methylnaphthalene, 2-	ND										
Acenaphthene	2.5E-01						1.8E-07	5.2E-07	4.8E-09	1.9E-08	7.2E-07
Phenanthrene	1.1E+01						1.6E-05	4.5E-05	4.1E-07	8.0E-07	6.2E-05
Acenaphthylene	5.0E-01						7.4E-07	2.1E-06	1.9E-08	3.7E-08	2.9E-06
Fluorene	5.9E-01						6.5E-07	1.8E-06	1.7E-08	4.4E-08	2.5E-06
Anthracene	2.1E+00						3.1E-07	8.7E-07	8.1E-09	1.6E-07	1.3E-06
Fluoranthene	1.8E+01						1.9E-05	5.4E-05	5.0E-07	1.3E-06	7.6E-05
Pyrene	1.6E+01						2.3E-05	6.5E-05	6.1E-07	1.2E-06	9.1E-05
Benzo(a)anthracene	7.6E+00	1.4E-08	9.8E-09	3.5E-10	4.2E-10	2.4E-08	8.7E-06	6.3E-06	2.3E-07	5.7E-07	1.6E-05
Chrysene	7.2E+00	1.3E-09	9.3E-10	3.3E-11	4.0E-11	2.3E-09	8.3E-06	5.9E-06	2.1E-07	5.3E-07	1.5E-05
Benzo(b)fluoranthene	ND										
Benzo(k)fluoranthene	ND										
Benzo(a)pyrene	ND										
Indeno(1,2,3-cd)pyrene	ND										
Dibenzo(a,h)anthracene	ND										
Benzo(g,h,i)perylene	ND										

**Table 10**  
**Calculation of Risk Estimates for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**  
**South Area (0-3')**

**Resident - Soil: Table RS-1**  
**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 v0406

ELCR (all chemicals) = 2E-05  
 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 <sub>ingestion</sub>	ELCR <sub>dermal</sub>	ELCR <sub>vegetable</sub>	ELCR <sub>total</sub>	Chronic			Subchronic			HQ <sub>total</sub>	
						HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	HQ <sub>total</sub>	HQ <sub>ing</sub>	HQ <sub>derm</sub>		HQ <sub>vegetable</sub>
Aliphatics C9 to C18	3.2E+00					7.8E-05	3.3E-04		4.1E-04	2.1E-05	6.2E-05		8.4E-05
Aliphatics C19 to C36	3.2E+01					3.9E-05	3.3E-05		7.2E-05	3.6E-05	2.1E-05		5.6E-05
Aromatics C11 to C22	1.5E+02					4.2E-03	1.0E-02		1.4E-02	1.2E-03	1.9E-03		3.0E-03
Naphthalene	5.7E-01					2.5E-05	5.9E-05		8.4E-05	6.8E-06	1.1E-05		1.8E-05
Methylnaphthalene, 2-	1.9E+00					4.1E-04	9.8E-04		1.4E-03	1.1E-04	1.9E-04		3.0E-04
Acenaphthene	1.2E+00					1.7E-05	4.1E-05		5.9E-05	4.8E-06	7.8E-06		1.3E-05
Phenanthrene	1.4E+01					4.1E-04	9.6E-04		1.4E-03	1.1E-04	1.8E-04		2.9E-04
Acenaphthylene	1.0E+00					2.9E-05	6.9E-05		9.8E-05	8.0E-06	1.3E-05		2.1E-05
Fluorene	1.7E+00					3.7E-05	8.8E-05		1.2E-04	1.0E-05	1.7E-05		2.7E-05
Anthracene	4.0E+00					1.2E-05	2.7E-05		3.9E-05	3.2E-06	5.2E-06		8.4E-06
Fluoranthene	1.7E+01					3.7E-04	8.8E-04		1.2E-03	1.0E-04	1.7E-04		2.7E-04
Pyrene	1.7E+01					4.9E-04	1.2E-03		1.7E-03	1.4E-04	2.2E-04		3.6E-04
Benzo(a)anthracene	8.2E+00	6.3E-07	4.6E-07		1.1E-06	1.9E-04	1.1E-04		3.0E-04	5.1E-05	2.1E-05		7.2E-05
Chrysene	8.2E+00	6.3E-08	4.6E-08			1.9E-04	1.1E-04		3.0E-04	5.1E-05	2.1E-05		7.2E-05
Benzo(b)fluoranthene	7.8E+00	6.0E-07	4.4E-07			1.8E-04	1.1E-04		2.8E-04	4.9E-05	2.0E-05		6.9E-05
Benzo(k)fluoranthene	5.7E+00	4.4E-08	3.2E-08			1.3E-04	7.8E-05		2.1E-04	3.5E-05	1.5E-05		5.0E-05
Benzo(a)pyrene	7.8E+00	6.0E-06	4.4E-06			1.8E-04	1.1E-04		2.8E-04	4.9E-05	2.0E-05		6.9E-05
Indeno(1,2,3-cd)pyrene	6.2E+00	4.7E-07	3.5E-07	1.1E-07		1.4E-04	8.5E-05		2.3E-04	3.9E-05	1.6E-05		5.5E-05
Dibenzo(a,h)anthracene	5.0E+00	3.8E-06	2.8E-06	1.0E-06		1.1E-04	6.9E-05		1.8E-04	3.1E-05	1.3E-05		4.4E-05
Benzo(g,h,i)perylene	5.3E+00			7.6E-08		1.5E-04	3.6E-04		5.2E-04	4.2E-05	6.9E-05		1.1E-04
				1.0E-05									
Polychlorinated biphenyls (PCBs)	1.7E+00	1.1E-06	2.1E-06	8.3E-07	3.2E-06	1.8E-01	2.8E-01		4.6E-01	1.9E-01	2.1E-01		4.1E-01
				6.7E-06									
Lead	6.9E+02					1.1E+00	1.1E-01	4.9E+01	5.0E+01	3.0E+00	2.1E-01	7.0E+01	7.3E+01

**Table 10 (cont'd.)**  
**Calculation of Risk Estimates for Residents - Incidental Ingestion of and Dermal Contact with Soil**  
**South Area Subsurface (0-6.5')**

**Resident - Soil: Table RS-1**  
**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 v0406

ELCR (all chemicals) = 3E-04  
 Chronic HI (all chemicals) = 8E+01  
 Subchronic HI (all chemicals) = 1E+02

**\*\*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 <sub>ingestion</sub>	ELCR <sub>dermal</sub>	ELCR <sub>vegetable</sub>	ELCR <sub>total</sub>	Chronic				Subchronic			HQ <sub>total</sub>
						HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	HQ <sub>total</sub>	HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	
Aliphatics C9 to C18	5.2E+00					1.3E-04	5.4E-04		6.6E-04	3.5E-05	1.0E-04		1.4E-04
Aliphatics C19 to C36	2.8E+01					3.4E-05	2.9E-05		6.3E-05	3.1E-05	1.8E-05		4.9E-05
Aromatics C11 to C22	1.6E+02					4.7E-03	1.1E-02		1.6E-02	1.3E-03	2.1E-03		3.4E-03
Naphthalene	6.0E-01					2.6E-05	6.2E-05		8.8E-05	7.2E-06	1.2E-05		1.9E-05
Methylnaphthalene, 2-	1.1E+00					2.4E-04	5.7E-04		8.1E-04	6.6E-05	1.1E-04		1.7E-04
Acenaphthene	1.0E+00					1.5E-05	3.4E-05		4.9E-05	4.0E-06	6.5E-06		1.1E-05
Phenanthrene	1.4E+01					4.1E-04	9.6E-04		1.4E-03	1.1E-04	1.8E-04		2.9E-04
Acenaphthylene	6.0E-01					1.7E-05	4.1E-05		5.9E-05	4.8E-06	7.8E-06		1.3E-05
Fluorene	1.6E+00					3.5E-05	8.2E-05		1.2E-04	9.6E-06	1.6E-05		2.5E-05
Anthracene	3.7E+00					1.1E-05	2.5E-05		3.6E-05	3.0E-06	4.8E-06		7.8E-06
Fluoranthene	1.8E+01					3.9E-04	9.3E-04		1.3E-03	1.1E-04	1.8E-04		2.8E-04
Pyrene	1.7E+01					4.9E-04	1.2E-03		1.7E-03	1.4E-04	2.2E-04		3.6E-04
Benzo(a)anthracene	8.2E+00	6.3E-07	4.6E-07		1.1E-06	1.9E-04	1.1E-04		3.0E-04	5.1E-05	2.1E-05		7.2E-05
Chrysene	7.9E+00	6.0E-08	4.5E-08		1.1E-07	1.8E-04	1.1E-04		2.9E-04	4.9E-05	2.1E-05		7.0E-05
Benzo(b)fluoranthene	6.7E+00	5.1E-07	3.8E-07		8.9E-07	1.5E-04	9.2E-05		2.4E-04	4.2E-05	1.7E-05		5.9E-05
Benzo(k)fluoranthene	3.9E+00	3.0E-08	2.2E-08		5.2E-08	8.8E-05	5.4E-05		1.4E-04	2.4E-05	1.0E-05		3.4E-05
Benzo(a)pyrene	6.2E+00	4.7E-06	3.5E-06		8.3E-06	1.4E-04	8.5E-05		2.3E-04	3.9E-05	1.6E-05		5.5E-05
Indeno(1,2,3-cd)pyrene	4.9E+00	3.7E-07	2.8E-07		6.5E-07	1.1E-04	6.7E-05		1.8E-04	3.1E-05	1.3E-05		4.3E-05
Dibenzo(a,h)anthracene	4.2E+00	3.2E-06	2.4E-06		5.6E-06	9.5E-05	5.8E-05		1.5E-04	2.6E-05	1.1E-05		3.7E-05
Benzo(g,h,i)perylene	4.0E+00					1.2E-04	2.7E-04		3.9E-04	3.2E-05	5.2E-05		8.4E-05
Polychlorinated biphenyls (PCBs)	9.0E-01	5.7E-07	1.1E-06	3.2E-04	3.2E-04	9.3E-02	1.5E-01	2.7E+01	2.7E+01	1.0E-01	1.1E-01	1.5E+01	1.6E+01
Lead	7.8E+02					1.3E+00	1.3E-01	5.6E+01	5.7E+01	3.5E+00	2.4E-01	8.0E+01	8.3E+01

**Table 10 (cont'd.)**  
**Calculation of Risk Estimates for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce**  
**North Area (0-3')**

**Resident - Soil: Table RS-1**  
**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 v0406

ELCR (all chemicals) = 2E-06  
Chronic HI (all chemicals) = 5E-02  
Subchronic HI (all chemicals) = 1E-02

**\*\*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 <sub>ingestion</sub>	ELCR <sub>dermal</sub>	ELCR <sub>vegetable</sub>	ELCR <sub>total</sub>	Chronic				Subchronic			
						HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	HQ <sub>total</sub>	HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	HQ <sub>total</sub>
Aliphatics C9 to C18	ND												
Aliphatics C19 to C36	1.9E+01					2.3E-05	1.9E-05		4.2E-05	2.1E-05	1.2E-05		3.3E-05
Aromatics C11 to C22	4.2E+02					1.2E-02	2.9E-02		4.1E-02	3.4E-03	5.4E-03		8.8E-03
Naphthalene	1.0E-01					4.4E-06	1.0E-05		1.5E-05	1.2E-06	2.0E-06		3.2E-06
Methylnaphthalene, 2-	3.0E-02					6.5E-06	1.5E-05		2.2E-05	1.8E-06	2.9E-06		4.7E-06
Acenaphthene	3.3E-01					4.8E-06	1.1E-05		1.6E-05	1.3E-06	2.1E-06		3.5E-06
Phenanthrene	2.0E+01					5.7E-04	1.3E-03		1.9E-03	1.6E-04	2.5E-04		4.1E-04
Acenaphthylene	8.4E-01					2.4E-05	5.8E-05		8.2E-05	6.7E-06	1.1E-05		1.8E-05
Fluorene	1.0E+00					2.3E-05	5.4E-05		7.6E-05	6.2E-06	1.0E-05		1.6E-05
Anthracene	3.8E+00					1.1E-05	2.6E-05		3.7E-05	3.0E-06	4.9E-06		8.0E-06
Fluoranthene	3.1E+01					6.8E-04	1.6E-03		2.3E-03	1.9E-04	3.1E-04		4.9E-04
Pyrene	2.8E+01					8.2E-04	1.9E-03		2.8E-03	2.3E-04	3.7E-04		6.0E-04
Benzo(a)anthracene	1.4E+01	1.0E-06	7.7E-07		1.8E-06	3.1E-04	1.9E-04		5.0E-04	8.5E-05	3.5E-05		1.2E-04
Chrysene	1.3E+01	9.7E-08	7.2E-08		1.7E-07	2.9E-04	1.7E-04		4.6E-04	7.9E-05	3.3E-05		1.1E-04
Benzo(b)fluoranthene	ND												
Benzo(k)fluoranthene	ND												
Benzo(a)pyrene	ND												
Indeno(1,2,3-cd)pyrene	ND												
Dibenzo(a,h)anthracene	ND												
Benzo(g,h,i)perylene	ND												

Table 10 (cont'd.)

Calculation of Risk Estimates for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce  
North Area Subsurface (0-6')

**Resident - Soil: Table RS-1**  
**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 v0406

ELCR (all chemicals) = 1E-06  
Chronic HI (all chemicals) = 3E-02  
Subchronic HI (all chemicals) = 6E-03

\*\*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 <sub>ingestion</sub>	ELCR <sub>dermal</sub>	ELCR <sub>vegetable</sub>	ELCR <sub>total</sub>	Chronic				Subchronic				
						HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	HQ <sub>total</sub>	HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>vegetable</sub>	HQ <sub>total</sub>	
Aliphatics C9 to C18	ND													
Aliphatics C19 to C36	3.0E+01					3.6E-05	3.1E-05		6.6E-05	3.3E-05	1.9E-05			5.2E-05
Aromatics C11 to C22	2.5E+02					7.3E-03	1.7E-02		2.5E-02	2.0E-03	3.3E-03			5.3E-03
Naphthalene	1.0E-01					4.4E-06	1.0E-05		1.5E-05	1.2E-06	2.0E-06			3.2E-06
Methylnaphthalene, 2-	ND													
Acenaphthene	2.5E-01					3.6E-06	8.6E-06		1.2E-05	1.0E-06	1.6E-06			2.6E-06
Phenanthrene	1.1E+01					3.1E-04	7.4E-04		1.1E-03	8.6E-05	1.4E-04			2.3E-04
Acenaphthylene	5.0E-01					1.5E-05	3.4E-05		4.9E-05	4.0E-06	6.5E-06			1.1E-05
Fluorene	5.9E-01					1.3E-05	3.0E-05		4.3E-05	3.5E-06	5.8E-06			9.3E-06
Anthracene	2.1E+00					6.1E-06	1.5E-05		2.1E-05	1.7E-06	2.7E-06			4.4E-06
Fluoranthene	1.8E+01					3.8E-04	9.0E-04		1.3E-03	1.1E-04	1.7E-04			2.8E-04
Pyrene	1.6E+01					4.6E-04	1.1E-03		1.5E-03	1.3E-04	2.1E-04			3.3E-04
Benzo(a)anthracene	7.6E+00	5.8E-07	4.3E-07		1.0E-06	1.7E-04	1.0E-04		2.8E-04	4.7E-05	2.0E-05			6.7E-05
Chrysene	7.2E+00	5.5E-08	4.1E-08		9.6E-08	1.6E-04	9.9E-05		2.6E-04	4.5E-05	1.9E-05			6.3E-05
Benzo(b)fluoranthene	ND													
Benzo(k)fluoranthene	ND													
Benzo(a)pyrene	ND													
Indeno(1,2,3-cd)pyrene	ND													
Dibenzo(a,h)anthracene	ND													
Benzo(g,h,i)perylene	ND													

**Table 11**  
**Calculation of Risk Estimates for Trespasser - Incidental Ingestion of and Dermal Contact with Soil**  
**South Area (0-3')**

**Trespasser - Soil: Table TS-1**  
**Exposure Point Concentration (EPC)**  
**Based on Trespasser Ages 11-18 (Cancer and Non-Cancer)**

ShortForm Version 6-06

Vlookup Version v0207

ELCR (all chemicals) = 9E-07

Chronic HI (all chemicals) = 1E-01

Subchronic HI (all chemicals) = 2E-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 <sub>ingestion</sub>	ELCR <sub>dermal</sub>	ELCR <sub>total</sub>	Chronic			Subchronic		HQ <sub>total</sub>
					HQ <sub>ing</sub>	HQ <sub>derm</sub>	HQ <sub>total</sub>	HQ <sub>ing</sub>	HQ <sub>derm</sub>	
Aliphatics C9 to C18	3.2E+00				5.2E-06	2.1E-05	2.7E-05	1.1E-06	3.9E-06	5.1E-06
Aliphatics C19 to C36	3.2E+01				2.6E-06	2.1E-06	4.7E-06	1.9E-06	1.3E-06	3.2E-06
Aromatics C11 to C22	1.5E+02				2.8E-04	6.4E-04	9.3E-04	6.2E-05	1.2E-04	1.8E-04
Naphthalene	5.7E-01				1.7E-06	3.8E-06	5.5E-06	3.6E-07	7.0E-07	1.1E-06
Methylnaphthalene, 2-	1.9E+00				2.8E-05	6.3E-05	9.1E-05	6.1E-06	1.2E-05	1.8E-05
Acenaphthene	1.2E+00				1.2E-06	2.7E-06	3.8E-06	2.6E-07	4.9E-07	7.5E-07
Phenanthrene	1.4E+01				2.7E-05	6.2E-05	8.9E-05	6.0E-06	1.1E-05	1.7E-05
Acenaphthylene	1.0E+00				1.9E-06	4.4E-06	6.4E-06	4.3E-07	8.2E-07	1.2E-06
Fluorene	1.7E+00				2.5E-06	5.7E-06	8.1E-06	5.4E-07	1.0E-06	1.6E-06
Anthracene	4.0E+00				7.8E-07	1.8E-06	2.6E-06	1.7E-07	3.3E-07	5.0E-07
Fluoranthene	1.7E+01				2.5E-05	5.7E-05	8.1E-05	5.4E-06	1.0E-05	1.6E-05
Pyrene	1.7E+01				3.3E-05	7.6E-05	1.1E-04	7.2E-06	1.4E-05	2.1E-05
Benzo(a)anthracene	8.2E+00	2.7E-08	1.6E-08	4.3E-08	1.2E-05	7.3E-06	2.0E-05	2.7E-06	1.3E-06	4.1E-06
Chrysene	8.2E+00	2.7E-09	1.6E-09	4.3E-09	1.2E-05	7.3E-06	2.0E-05	2.7E-06	1.3E-06	4.1E-06
Benzo(b)fluoranthene	7.8E+00	2.6E-08	1.5E-08	4.1E-08	1.2E-05	6.9E-06	1.9E-05	2.6E-06	1.3E-06	3.9E-06
Benzo(k)fluoranthene	5.7E+00	1.9E-09	1.1E-09	3.0E-09	8.6E-06	5.1E-06	1.4E-05	1.9E-06	9.3E-07	2.8E-06
Benzo(a)pyrene	7.8E+00	2.6E-07	1.5E-07	4.1E-07	1.2E-05	6.9E-06	1.9E-05	2.6E-06	1.3E-06	3.9E-06
Indeno(1,2,3-cd)pyrene	6.2E+00	2.1E-08	1.2E-08	3.3E-08	9.4E-06	5.5E-06	1.5E-05	2.1E-06	1.0E-06	3.1E-06
Dibenzo(a,h)anthracene	5.0E+00	1.7E-07	9.7E-08	2.6E-07	7.6E-06	4.4E-06	1.2E-05	1.7E-06	8.2E-07	2.5E-06
Benzo(g,h,i)perylene	5.3E+00				1.0E-05	2.4E-05	3.4E-05	2.3E-06	4.3E-06	6.6E-06
Polychlorinated biphenyls (PCBs)	1.7E+00	4.7E-08	7.3E-08	1.2E-07	1.2E-02	1.8E-02	3.0E-02	1.0E-02	1.3E-02	2.4E-02
Lead	6.9E+02				7.4E-02	7.3E-03	8.1E-02	1.6E-01	1.3E-02	1.8E-01

**Table 11 (cont'd.)**  
**Calculation of Risk Estimates for Trespasser - Incidental Ingestion of and Dermal Contact with Soil**  
**South Area Subsurface (0-6.5')**

**Trespasser - Soil: Table TS-1**  
**Exposure Point Concentration (EPC)**  
**Based on Trespasser Ages 11-18 (Cancer and Non-Cancer)**

ShortForm Version 6-06

Vlookup Version v0207

ELCR (all chemicals) = 7E-07

Chronic HI (all chemicals) = 1E-01

Subchronic HI (all chemicals) = 2E-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 <sub>ingestion</sub>		ELCR <sub>total</sub>	Chronic		HQ <sub>total</sub>	Subchronic		HQ <sub>total</sub>
					HQ <sub>ing</sub>	HQ <sub>derm</sub>		HQ <sub>ing</sub>	HQ <sub>derm</sub>	
Aliphatics C9 to C18	5.2E+00				8.4E-06	3.5E-05	4.3E-05	1.8E-06	6.4E-06	8.2E-06
Aliphatics C19 to C36	2.8E+01				2.3E-06	1.9E-06	4.1E-06	1.7E-06	1.1E-06	2.8E-06
Aromatics C11 to C22	1.6E+02				3.1E-04	7.2E-04	1.0E-03	6.9E-05	1.3E-04	2.0E-04
Naphthalene	6.0E-01				1.7E-06	4.0E-06	5.8E-06	3.8E-07	7.4E-07	1.1E-06
Methylnaphthalene, 2-	1.1E+00				1.6E-05	3.7E-05	5.3E-05	3.5E-06	6.8E-06	1.0E-05
Acenaphthene	1.0E+00				9.7E-07	2.2E-06	3.2E-06	2.1E-07	4.1E-07	6.2E-07
Phenanthrene	1.4E+01				2.7E-05	6.2E-05	8.9E-05	6.0E-06	1.1E-05	1.7E-05
Acenaphthylene	6.0E-01				1.2E-06	2.7E-06	3.8E-06	2.6E-07	4.9E-07	7.5E-07
Fluorene	1.6E+00				2.3E-06	5.3E-06	7.7E-06	5.1E-07	9.8E-07	1.5E-06
Anthracene	3.7E+00				7.2E-07	1.6E-06	2.4E-06	1.6E-07	3.0E-07	4.6E-07
Fluoranthene	1.8E+01				2.6E-05	6.0E-05	8.6E-05	5.7E-06	1.1E-05	1.7E-05
Pyrene	1.7E+01				3.3E-05	7.6E-05	1.1E-04	7.2E-06	1.4E-05	2.1E-05
Benzo(a)anthracene	8.2E+00	2.7E-08	1.6E-08	4.3E-08	1.2E-05	7.3E-06	2.0E-05	2.7E-06	1.3E-06	4.1E-06
Chrysene	7.9E+00	2.6E-09	1.5E-09	4.2E-09	1.2E-05	7.0E-06	1.9E-05	2.6E-06	1.3E-06	3.9E-06
Benzo(b)fluoranthene	6.7E+00	2.2E-08	1.3E-08	3.5E-08	1.0E-05	6.0E-06	1.6E-05	2.2E-06	1.1E-06	3.3E-06
Benzo(k)fluoranthene	3.9E+00	1.3E-09	7.6E-10	2.1E-09	5.9E-06	3.5E-06	9.4E-06	1.3E-06	6.4E-07	1.9E-06
Benzo(a)pyrene	6.2E+00	2.1E-07	1.2E-07	3.3E-07	9.4E-06	5.5E-06	1.5E-05	2.1E-06	1.0E-06	3.1E-06
Indeno(1,2,3-cd)pyrene	4.9E+00	1.6E-08	9.5E-09	2.6E-08	7.4E-06	4.4E-06	1.2E-05	1.6E-06	8.0E-07	2.4E-06
Dibenzo(a,h)anthracene	4.2E+00	1.4E-07	8.2E-08	2.2E-07	6.4E-06	3.7E-06	1.0E-05	1.4E-06	6.9E-07	2.1E-06
Benzo(g,h,i)perylene	4.0E+00				7.8E-06	1.8E-05	2.6E-05	1.7E-06	3.3E-06	5.0E-06
Polychlorinated biphenyls (PCBs)	9.0E-01				6.2E-03	9.6E-03	1.6E-02	5.4E-03	7.1E-03	1.3E-02
Lead	7.8E+02				8.4E-02	8.3E-03	9.3E-02	1.8E-01	1.5E-02	2.0E-01

**TABLE 12**  
**SUMMARY OF HAZARD INDICES AND RISK ESTIMATES**  
**16 Blackmer Street**  
**New Bedford, MA**

SITE AREA Receptor Media (depth)	Exposure Pathway	Hazard Index		Cancer Risk Estimate
		Subchronic	Chronic	
<b>SOUTH AREA</b>				
<b>CURRENT/FUTURE CONDITIONS</b>				
Construction Worker Soils (0-3 feet bgs)	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	8E-01	-	6E-07
Construction Worker Soils (0-6.5 feet bgs)	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	8E-01	-	4E-07
Trespasser Soils (0-3 feet bgs)	Incidental Ingestion and Dermal Contact	2E-01	1E-01	9E-07
Trespasser Soils (0-6.5 feet bgs)	Incidental Ingestion and Dermal Contact	2E-01	1E-01	7E-07
<b>FUTURE CONDITIONS</b>				
Resident Soils (0-3 feet bgs)	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	<b>7E+01</b>	<b>5E+01</b>	<b>2E-05</b>
Resident Soils (0-6.5 feet bgs)	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	<b>1E+02</b>	<b>8E+01</b>	<b>3E-04</b>
<b>NORTH AREA</b>				
<b>CURRENT/FUTURE CONDITIONS</b>				
Construction Worker Soils (0-3 feet bgs)	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	3E-03	-	5E-08
Construction Worker Soils (0-6 feet bgs)	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	2E-03	-	3E-08
<b>FUTURE CONDITIONS</b>				
Resident Soils (0-3 feet bgs)	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	1E-02	5E-02	2E-06
Resident Soils (0-6 feet bgs)	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	6E-03	3E-02	1E-06
<b>MA DEP Risk Limits:</b>		1E+00	1E+00	1E-05

Notes:

NC indicates no carcinogens detected.

Values in bold exceed MA DEP risk limits.



**APPENDIX A**  
**TOXICITY PROFILES**

## ACENAPHTHENE

### GENERAL BACKGROUND INFORMATION

Acenaphthene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The database for acenaphthene is very limited.

### PHARMACOKINETICS

No data were found regarding the pharmacokinetics of acenaphthene.

### HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicology of acenaphthene.

### MAMMALIAN TOXICOLOGICAL PROFILE

Adverse effects on the lungs, glands, and blood were observed in rats following aerosol administration of 12 mg/m<sup>3</sup> acenaphthene for 5 months (U.S. EPA, 1981).

### GENOTOXICITY

Mutagenicity tests for acenaphthene were negative (U.S. EPA, 1981). Carcinogenicity tests were negative (IARC, 1983).

### REFERENCES

International Agency for Research on Cancer (IARC) (1983) *Monograph on the evaluation of carcinogenic risk of chemicals to man: polynuclear aromatic hydrocarbons*. 32:33-43.

U.S. Environmental Protection Agency (U.S. EPA) (1981) An exposure and risk assessment for acenaphthalene. U.S. EPA Contract No. 68-01-6017. Office of Water Regulations and Standards, Washington, D.C.

## ACENAPHTHYLENE

### GENERAL BACKGROUND INFORMATION

Acenaphthylene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data on acenaphthylene are limited.

### PHARMACOKINETICS

No data were found regarding the pharmacokinetics of acenaphthylene.

### HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicity of acenaphthylene.

### MAMMALIAN TOXICOLOGICAL PROFILE

No data were found regarding the mammalian toxicity of acenaphthylene.

### GENOTOXICITY

Data from a single mutagenicity assay using acenaphthylene were positive (U.S. EPA, 1982).

### REFERENCES

U.S. Environmental Protection Agency (U.S. EPA) (1982) An exposure and risk assessment for polynuclear aromatic hydrocarbons (acenaphthylene). U.S. EPA Contract 68-01-6017. Office of Water Regulations and Standards. Washington, D.C.

## **ANTHRACENE**

### **GENERAL BACKGROUND INFORMATION**

Anthracene is a polycyclic aromatic hydrocarbon (PAH). PAHs are a class of compounds which are non-polar and contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. As a PAH, anthracene is found in tobacco smoke, certain foods, and the emissions from industrial or natural burning.

### **PHARMACOKINETICS**

Little data were found regarding the pharmacokinetics of anthracene. The intestinal absorption of anthracene is less dependent on the presence of bile in the stomach than is the absorption of larger PAHs such as benzo(a)pyrene (Rahman et al, 1986).

### **HUMAN TOXICOLOGICAL PROFILE**

Anthracene is a skin irritant and allergen (Sax, 1984). Humans exposed to anthracene in an occupational setting may demonstrate skin disorders (Clement, 1985). Anthracene has been associated with gastrointestinal tract toxicity in humans (Badiali et al, 1985). However, the usefulness of this study is limited due to confounding factors. Hematopoietic toxicity has also been observed in cancer patients who have been treated with anthracene-containing chemotherapeutics (Falkson et al, 1985). No control groups and concomitant exposure to other ingredients in the therapeutic agents prevents any definitive conclusions.

### **MAMMALIAN TOXICOLOGICAL PROFILE**

A subchronic study where anthracene was administered to mice by gavage for at least 90 days found no treatment-related effects at doses up to 1000 mg/kg-day (USEPA, 1989).

The data on the carcinogenicity of anthracene are considered inadequate by EPA (IRIS, 1991).

### **GENOTOXICITY**

Tests for DNA damage, mutation, chromosome effects and cell transformation in a variety of eukaryotic cell preparations have shown negative results. The majority of tests using anthracene in prokaryotes are negative, but positive results are reported in one or two tests (ATSDR, 1990; IRIS, 1991).

## REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological summary for polycyclic aromatic hydrocarbons. U.S. Public Health Service.
- Badiali, D. et al. (1985) *Melanosis of the rectum in patients with constant constipation*. *Dis Colon Rectum* 28:241-245.
- Clement (1985) Chemical, physical and biological properties of compounds present at hazardous waste sites.
- Falkson, G. Klein, B., Falkson, H. (1985) *Hematological toxicity: experience with antracyclines and anthracenes*. Exp. Hematol 13:64-71.
- Integrated Risk Information System (IRIS) (1991) U.S. Environmental Protection Agency
- International Agency for Research on Cancer (IARC) (1983) *Monograph on the evaluation of carcinogenic risk of chemicals to man, anthracene*. 32:433-440.
- Sax, N.I. (1984) Dangerous Properties of Industrial Materials. 6th edition. Van Nostrand Reinhold Company, N.Y.

## **BENZO[a]ANTHRACENE**

### **GENERAL BACKGROUND INFORMATION**

Benzo[a]anthracene (BaA) is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The overall database for benzo[a]anthracene is limited. Human exposures to BaA can come from the oral, inhalation or dermal routes. BaA is produced when gasoline or other organic material is burned. It is also found in cigarette smoke and cooked food. People most at risk from exposure to BaA are those in the coal tar and asphalt production industries, cooking plants, coal gasification plants, smoke houses and industrial plants that burn wood, trash, coal or oil.

### **PHARMACOKINETICS**

BaA is absorbed by the dermal and oral routes. There is no information on absorption by inhalation. Biotransformation to reactive intermediates is necessary for toxicity (ATSDR, 1990). BaA accumulates in adipose tissue. The metabolism of BaA is similar to the metabolism of benzo[a]pyrene (Cooper et al., 1983). In brief, the aromatic ring is oxidized by arene oxides to form reactive intermediates. The reactive intermediates are subsequently hydrolyzed to diols (Sims and Grover, 1974). The diols are conjugated with glutathione and excreted.

### **HUMAN TOXICOLOGICAL PROFILE**

There are no reports directly correlating human exposure to BaA with the development of excess tumors.

### **MAMMALIAN TOXICOLOGICAL PROFILE**

The only toxicity endpoint that has been adequately studied for BaA is dermal carcinogenicity. There is some evidence that benz[a]anthracene is carcinogenic in laboratory animals by the oral route (Klein, 1963; Bock and King, 1959) and also by subcutaneous injection (IARC, 1973). BaA has been shown to cause skin tumors after dermal application (Bingham and Falk, 1969). Tumorigenicity of the diol epoxide metabolite has been shown (Levin et al., 1978) as well as the mutagenicity of the diol epoxide (Wood et al., 1977).

## GENOTOXICITY

The metabolism of BaA is an essential event in producing genotoxic effects in both *in vitro* and *in vivo* biological test systems (ATSDR, 1990). The intermediates formed by BaA metabolism are reactive electrophiles which are capable of interacting with DNA.

## REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological summary for benzo[a]anthracene. U.S. Public Health Service.
- Bingham, E. and Falk, H.L. (1969) *The modifying effect of carcinogens on the threshold response*. *Arch. Environ. Health* 19:779-783.
- Bock, F.G. and King, D.W. (1959) *A study of the sensitivity of the mouse forestomach toward certain polycyclic hydrocarbons*. *J. Natl. Cancer Inst.* 23:833.
- Cooper, C.S. Grover, P.L., and Sims, P. (1983). *The metabolism and activation of benzo(a)pyrene*. In: Bridges, J.W. and L.F. Chase, eds. Progress in Drug Metabolism. Vol. 7. John Wiley and Sons, New York, pp. 295-395.
- Klein, M. (1963) *Susceptibility of strain B6AF/J hybrid infant mice to tumorigenesis with 1,2-benzanthracene, deoxycholic acid, and 3-methylcholanthrene*. *Cancer Res.* 23:1701-1707.
- Levin, W., Thakker, D.R., Wood, A.W. et al. (1978) *Evidence that benzo(a)anthracene 3,4-diol-1,2-epoxide is an ultimate carcinogen on mouse skin*. *Cancer Res.* 38:1705-1710.
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## BENZO[a]PYRENE

### GENERAL BACKGROUND INFORMATION

Benzo[a]pyrene (BaP) is a member of the class of compounds generally referred to as polycyclic aromatic hydrocarbons (PAH).

PAHs contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. BaP is a component of fossil fuels and is produced from the incomplete combustion of organic compounds. BaP and other PAHs are found in coal tar, creosote oils and pitches formed from the distillation of coal tars (ATSDR, 1990).

### PHARMACOKINETICS

BaP is readily absorbed by dermal, inhalation and oral routes (see section on Relative Absorption Factors). Distribution of BaP is rapid among several tissues. Following inhalation exposure to <sup>3</sup>H labeled BaP, maximum levels of radioactivity were found in the liver, esophagus, small intestine and blood after 30 minutes. After 12 hours, maximum levels were found in the cecum, stomach and large intestine (Sun et al., 1982). This and other studies provide evidence for the enterohepatic circulation of BaP metabolites.

Mammalian metabolism of BaP follows the mechanism established for smaller aromatic compounds (Williams, 1959). There is an initial oxidation of a double bond on one of the rings to an arene oxide. The oxide is then hydrolyzed to the diol. Oxidations may occur at multiple sites on the BaP molecule. Phase II metabolism is considered the detoxication pathway and involves the conjugation of the activated Phase I metabolites with easily eliminated substrates such as glutathione, glucuronide or sulfate (Cooper et al., 1983). In addition to being conjugated, the diol intermediate can undergo (1) further oxidation to several uncharacterized metabolites via the P-450 monooxygenase system, (2) spontaneous rearrangement to the phenol or (3) hydration to the trans-diols through a reaction catalyzed by epoxide hydrolase (Cooper et al., 1983). BaP 7,8-diol-9,10-epoxide has been established as an ultimate carcinogen (ATSDR, 1990). The primary route of excretion of BaP is through the feces. BaP undergoes first-pass metabolism and is reabsorbed via enterohepatic circulation (Chipman et al., 1982). Rats exposed by gavage to <sup>14</sup>C labeled BaP in peanut oil excreted up to 85% in the feces. Excretion in the urine was 1 to 3% of the administered dose (Hecht et al., 1979).

## HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of BaP on humans, separate from PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

## MAMMALIAN TOXICOLOGICAL PROFILE

BaP is a moderately potent experimental carcinogen in numerous species by many routes of exposure (IARC, 1983). Mice exposed to doses of BaP ranging from 1.5 to 400 mg/kg/d developed benign and malignant tumors of the forestomach (Hartwell, 1951; Thompson, 1971). Acute intragastric doses of 50 to 67 mg/kg of BaP have been shown to elicit pulmonary adenomas and forestomach papillomas in mice (Sparnins et al., 1986; Wattenberg and Beuding, 1986). Intermittent gavage exposure of mice to 50 to 67 mg/kg BaP resulted in 100% forestomach and pulmonary tumor incidences at 30 weeks of age (Sparnins et al., 1986; Wattenberg and Leong, 1970). Mice fed BaP at concentrations equivalent to 33.3 mg/kg/d exhibited gastric neoplasms following two or more days of consumption. However, lower concentrations of BaP (equivalent to 13.3 mg/kg/d) administered for up to 7 days did not produce any forestomach tumors (Neal and Rigdon, 1967). Hamsters have developed papillomas and carcinomas of the alimentary tract following gavage or dietary exposure to BaP (Chu and Malmgrem, 1965). A single oral dose of 100 mg BaP (200mg/kg) produced mammary tumors in 88% of female Sprague-Dawley rats (Huggins and Yang, 1962). A 77% mammary tumor incidence was observed 90 weeks after a single oral dose of BaP of 50 mg (100mg/kg) was administered to rats (McCormick, 1981).

## GENOTOXICITY

There are no studies relating exposure to BaP in humans to genotoxicity. In short-term *in vitro* and *in vivo* genetic toxicology tests, BaP has been shown to be a potent genotoxic agent when metabolically activated. In mice, oral exposure to 10 mg/kg BaP produced gene mutations in the mouse coat color spot test (Davidson and Dawson, 1976,1977). BaP shows positive mutagenic activity, *in vitro*, in several strains of *Salmonella typhimurium* in the presence of either rodent microsomes or hepatocytes for exogenous metabolic activation (ATSDR, 1990). Epidemiological studies have shown increased incidences of lung cancer in humans exposed via inhalation to mixtures of PAHs which include BaP (ATSDR, 1990).

## REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for benzo(a)pyrene. U. S. Public Health Service.
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# BENZO[b]FLUORANTHENE

## GENERAL BACKGROUND INFORMATION

Benzo[b]fluoranthene (BbF) is a member of the class of compounds referred to as polycyclic aromatic hydrocarbons (PAHs). PAHs contain two or more aromatic rings. PAHs are ubiquitous in nature and are both naturally occurring and man-made. Exposure to BbF can come from air, water, or soil. As a PAH, BbF is present in the emissions from industrial plants that produce coal tar, cooking plants, asphalt production plants, and home heating with wood and coal. BbF is also present in charcoal-broiled foods and cigarette smoke (ATSDR, 1990).

## PHARMACOKINETICS

No data on the absorption, distribution or excretion of BbF were identified. BbF is metabolized under *in vitro* incubation conditions to phenol and dihydrodiol metabolites (Amin et al., 1982). The general metabolic pathways elucidated for benzo(a)pyrene are also active on BbF (Cooper et al., 1983; Levin et al., 1982; Grover et al., 1986). The reactive metabolites associated with the tumorigenic effects of BbF may not be the diol epoxides (Amin et al., 1982; Amin et al., 1985). As for the other PAHs, the material excreted is expected to consist primarily of dihydrodiol and phenol conjugates (Grover et al., 1986).

## HUMAN TOXICOLOGICAL PROFILE

The database for human toxicity is very limited. There are no studies correlating exposure to BbF and cancer or systemic toxicity. The only data implicating BbF as a carcinogen come from carcinogenicity studies using a mixture of PAHs.

## MAMMALIAN TOXICOLOGICAL PROFILE

The database on the toxicity of BbF is limited. Intratracheal administration of BbF to rats resulted in an increase in respiratory tract tumors (Deutsch-Wenzel et al., 1983). BbF has caused skin tumors in mice following dermal application (Wynder and Hoffman, 1959). The skin tumor initiating ability of BbF has been demonstrated in mice using a standard initiation/promotion protocol with either croton oil or phorbol myristate acetate as a tumor promotor (Amin et al., 1985; LaVoie et al., 1979, 1982).

## GENOTOXICITY

The genotoxicity of BbF has been shown equivocally in three *in vitro* studies. BbF has been shown to be mutagenic in *Salmonella typhimurium* in the presence of an exogenous rat-liver preparation (LaVoie et al., 1979). Mutagenic activity has been reported in another similar study (Hermann, 1981). Negative results were reported by Mossanda (1979). The results cannot support an unequivocal determination regarding the genotoxicity of BbF at this time.

## REFERENCES

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## **BENZO[g,h,i]PERYLENE**

### **GENERAL BACKGROUND INFORMATION**

Benzo[g,h,i]perylene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data regarding benzo[g,h,i]perylene are limited. As a PAH, it is found in food (charcoal broiled meats), vegetables, tobacco smoke and soot (U.S. EPA, 1980). Exposure occurs by inhalation, ingestion and by dermal contact.

### **PHARMACOKINETICS**

No data were found regarding the pharmacokinetics of benzo[g,h,i]perylene.

### **HUMAN TOXICOLOGICAL PROFILE**

No data were found regarding the human toxicology of benzo[g,h,i]perylene.

### **MAMMALIAN TOXICOLOGICAL PROFILE**

No data were found regarding the mammalian toxicity of benzo[g,h,i]perylene.

### **GENOTOXICITY**

No data were found regarding the genotoxicity of benzo[g,h,i]perylene.

### **REFERENCES**

U.S. Environmental Protection Agency (U.S. EPA). (1980) An exposure risk assessment of polycyclic aromatic hydrocarbons (benzo[g,h,i]perylene). U.S. EPA Contract 68-01-6017. Office of Water Regulations and Standards. Washington, D.C.

## **CHRYSENE**

### **GENERAL BACKGROUND INFORMATION**

Chrysene is one of the polycyclic aromatic hydrocarbon (PAH) compounds which are formed during the combustion of organic material. Chrysene often exists in particulate form, adsorbing to existing particulate material in air. Human exposure can occur in the workplace (coal and asphalt production plants, cooking plants, smoke houses) or in the environment due to chrysene contamination of air, food, soil and water (ATSDR, 1990).

### **PHARMACOKINETICS**

Chrysene can be absorbed by all routes of exposure (see section on Relative Absorption Factors). Its absorption is believed to be qualitatively similar to benzo[a]pyrene (ATSDR, 1990). Following absorption, chrysene distributes to all organs, reaching the highest concentration in tissues with large fat content (adipose tissue, mammary tissue, brain) (Modica et al., 1983). Chrysene undergoes metabolic biotransformation mediated by the mixed function oxidase enzyme system to form reactive intermediates hypothesized to be responsible for its toxicity. The major metabolites include trans-dihydrodiols, phenols, diol epoxides and triol epoxides (Thakker et al., 1985). The reactive metabolites are conjugated and excreted primarily in feces (Schlede et al., 1970).

### **HUMAN TOXICOLOGICAL PROFILE**

There is no information available on threshold toxic effects of chrysene in humans. Since it is structurally similar to benzo[a]pyrene, it would be expected to produce effects similar to B[a]P following acute or chronic exposure (see Toxicity Profile on Benzo[a]pyrene).

### **MAMMALIAN TOXICOLOGICAL PROFILE**

There is no information available on threshold toxic effects of chrysene in animals. Since it is structurally similar to benzo[a]pyrene, it would be expected to produce effects similar to B[a]P following acute or chronic exposure (see Toxicity Profile for Benzo[a]pyrene).

## GENOTOXICITY

The genotoxicity of chrysene has been evaluated in in vivo and in vitro cytogenetic tests. Chrysene produced weak positive results in bacterial mutation assays, human epithelial mutation studies, cell transformation assays and in vivo cytogenetic studies (Waters et al., 1987). Metabolism of chrysene is essential to produce the observed positive responses. Chrysene is not genotoxic in all test systems, however, it is believed to be a weak mutagen (ATSDR, 1990). The carcinogenicity of chrysene has not been adequately studied. There are no reports directly correlating human chrysene exposure and tumor development. There is limited evidence that chrysene is a skin carcinogen in animals following long-term dermal application (Wynder and Hoffmann, 1959; Hecht et al., 1974).

## REFERENCES

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## DIBENZO[a,h]ANTHRACENE

### GENERAL BACKGROUND INFORMATION

Dibenzo[a,h]anthracene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of compounds which are non-polar and contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data regarding dibenzo[a,h]anthracene are very limited. As a PAH, it is found in tobacco smoke, food, and the emissions from industrial or natural burning.

### PHARMACOKINETICS

Dibenzo[a,h]anthracene is metabolized similarly to benzo(a)pyrene (ATSDR, 1990). However, while the metabolic profiles of these two compounds (and other alternant PAHs) are qualitatively similar, there are differences in the levels and rates of formation of specific metabolites among tissues and cell preparations used. Sanders et al (1986) applied <sup>14</sup>C - dibenzo[a,h]anthracene to the shaved backs of mice. After 24 hours, the majority of activity was recovered from the application site, with the remainder from body tissues and excreta. In comparison, benzo(a)pyrene similarly applied was found predominantly in the excreta and body tissues, with the remainder at the application site.

### HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of dibenzo[a,h]anthracene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

### MAMMALIAN TOXICOLOGICAL PROFILE

Dibenzo[a,h]anthracene has been shown to induce skin tumors in lab animals (i.e. it is a complete carcinogen) following dermal exposure (Wyndner and Hoffman, 1959; Van Duuren et al, 1967; and Lijinsky et al, 1965). Dibenzo[a,h]anthracene has also demonstrated tumor initiation activity (Slaga et al. 1980).

Carcinogenic PAHs as a group has immunosuppressive effects, with the degree of immunosuppression correlated with carcinogenic potency (ATSDR, 1990). Dibenzo[a,h]anthracene was also tested for developmental effects via parenteral routes and was found to produce fetolethal effects in rats (Wolfe and Bryan, 1939).

## GENOTOXICITY

Dibenzo[a,h]anthracene is mutagenic (Barfknecht et al, 1982; Rocchi et al, 1980) and produces DNA damage (Martin et al, 1978) in cultured human cells. Test results in nonhuman systems were also positive (ATSDR, 1990).

## REFERENCES

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## FLUORANTHENE

### GENERAL BACKGROUND INFORMATION

Fluoranthene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. Fluoranthene has been detected in food, cigarette smoke, and smoke from industrial and natural burning.

### PHARMACOKINETICS

No data were found regarding the pharmacokinetics of fluoranthene.

### HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of fluoranthene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

### MAMMALIAN TOXICOLOGICAL PROFILE

The database on the toxicity of fluoranthene is limited. A 13 week subchronic study where CD-1 mice were gavaged with up to 500 mg/kg-day of fluoranthene indicated nephropathy, increased liver weights, hematological alterations and clinical effects (EPA, 1988). A developmental study in which fluoranthene was administered once via intraperitoneal injection to pregnant mice reported only an increased rate of embryo resorption (Irvin and Martin, 1987).

Chronic dermal application of up to 1 percent fluoranthene to the backs of mice did not induce skin tumors following lifetime application (Hoffman et al, 1972; Horton and Christian, 1974; and Wydner and Hoffman, 1959a). Fluoranthene is not a complete carcinogen (ATSDR, 1990) and does not exhibit initiation activity (Hoffman et al, 1972).

### GENOTOXICITY

There is some evidence that fluoranthene is genotoxic (ATSDR, 1990). Genotoxic effects have been reported in human cells with exogenous metabolic activation, but negative results were recorded without metabolic activation.

## REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for polycyclic aromatic hydrocarbons. U. S. Public Health Service.
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# FLUORENE

## GENERAL BACKGROUND INFORMATION

Fluorene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data on fluorene are very limited. Low levels of (5 to 67 ug/kg) have been detected in smoked meats (U.S. EPA, 1982).

## PHARMACOKINETICS

No data were found regarding the pharmacokinetics of fluorene.

## HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of fluoranthene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

## MAMMALIAN TOXICOLOGICAL PROFILE

Limited information is available on the threshold effects of fluorene. An EPA study (EPA,1989) indicated that CD-1 mice exposed by gavage to up to 500 mg/kg-day of fluorene showed hypoactivity as well as a decrease in red blood cell count and packed cell volume and hemoglobin. Increases in absolute and relative liver, spleen and kidney weights was also observed. Gershbein (1975) reported that partially hepatectomized rats fed a diet of 180 mg/kg-day of fluorene for 10 days showed a statistically significant increase in liver regeneration, which is indicative of the ability to induce a proliferative response.

Fluorene is not reported to be a complete skin carcinogen (ATSDR, 1990). It was inactive as a tumor initiator when an estimated total dose of 1.0 mg was applied prior to the application of tetradecanoyl phorbol acetate (LaVoie et al, 1980).

## GENOTOXICITY

There is no evidence that fluorene is genotoxic, but genotoxicity has been studied only in a few in vitro assays (ATSDR, 1990).

## REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for polycyclic aromatic hydrocarbons. U. S. Public Health Service.
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## INDENO[1,2,3-cd]PYRENE

### GENERAL BACKGROUND INFORMATION

Indeno[1,2,3-cd]pyrene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. Indeno[1,2,3-cd]pyrene is present in cigarette smoke (IARC, 1983) as well as emissions from industrial stacks.

### PHARMACOKINETICS

No data were found regarding the pharmacokinetics of indeno[1,2,3-cd]pyrene. However, its metabolism should be similar to another non-alternant PAH, benzo(b)fluoranthene (ATSDR, 1990).

### HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of indeno[1,2,3-cd]pyrene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

### MAMMALIAN TOXICOLOGICAL PROFILE

Studies on laboratory animals have demonstrated that indeno[1,2,3-cd]pyrene can induce skin tumors (i.e. it is a complete carcinogen) following dermal exposure (ATSDR, 1990).

It has tumor initiating activity, but is not as potent as benzo(b)fluoranthene (Rice et al, 1985).

Carcinogenic PAHs as a group are immunosuppressant, with the degree of suppression correlated with the degree of potency (ATSDR, 1990)

### GENOTOXICITY

In test systems using non-human cells, indeno[1,2,3-cd]pyrene was found to be genotoxic (ATSDR, 1990).

## REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for polycyclic aromatic hydrocarbons. U. S. Public Health Service.
- International Agency for Research on Cancer (IARC) (1983) *Monograph on the evaluation of carcinogenic risk of chemicals to man, Indeno(1,2,3-cd)pyrene*. 32:419-430.
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## 2-METHYLNAPHTHALENE

### GENERAL BACKGROUND INFORMATION

2-Methylnaphthalene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. This compound is used in the synthesis of organic chemicals and pesticides. The database for toxicological information is very limited.

### PHARMACOKINETICS

No data were found regarding the pharmacokinetics of 2-methylnaphthalene.

### HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicity of 2-methylnaphthalene.

### MAMMALIAN TOXICOLOGICAL PROFILE

No data were found regarding the mammalian toxicology of 2-methylnaphthalene.

### GENOTOXICITY

No data were found regarding the genotoxicity of 2-methylnaphthalene.

### REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicity profile for naphthalene and 2-methylnaphthalene. U.S. Public Health Service.

# NAPHTHALENE

## GENERAL BACKGROUND INFORMATION

Naphthalene is a white solid substance at room temperature. It has a distinct odor of mothballs or tar. Humidity and sunshine cause evaporation into the air within a few hours. When placed in water or soil, bacteria will destroy naphthalene, or will render it airborne within a few hours (ATSDR, 1990). Tobacco smoke is known to release 3 ug of naphthalene per cigarette (U.S. EPA, 1982). The compound is used in the production of dyes, solvents, lubricants, motor fuels (U.S. EPA, 1980) and is a major component of many moth ball preparations.

## PHARMACOKINETICS

Humans can absorb naphthalene by dermal, inhalation and oral routes (see section on Relative Absorption Factors). Metabolism occurs via the P450 mixed function oxidase enzyme system to yield multiple intermediates which are then conjugated. Key metabolites are responsible for each toxicity endpoint following intraperitoneal administration: 2-naphthoquinones --> hemolysis; 1,2-naphthoquinones --> cataracts; 3-GSH adducts --> pulmonary toxicity (Buckpitt et al., 1984). Excretion of metabolites occurs via urine and feces (ATSDR, 1990).

## HUMAN TOXICOLOGICAL PROFILE

Adults and children exposed to airborne naphthalene experience vomiting, abdominal pain and anemia (ATSDR, 1990). Most of the data is for inhalation of naphthalene from mothballs. The primary site of toxicity is the erythrocyte resulting in hemolytic crisis (hemolytic anemia). Jaundice is seen upon dermal, inhalation, and oral exposures, as are kidney effects (ATSDR, 1990). Near-blindness resulted in male and female subjects with 5 gram ingestion (ATSDR, 1990).

## MAMMALIAN TOXICOLOGY PROFILE

Oral doses in rats have hepatic effects. Dogs (1800 mg/kg) for 5 days of exposure showed signs of lethargy and ataxia, and decreased hemoglobin levels (ATSDR, 1990)

## GENOTOXICITY

No studies of genotoxic effects in humans or laboratory animals were located. No human epidemiological evidence for cancer.

Inconclusive evidence for cancer in rats and mice were found (ATSDR, 1990).

## REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for naphthalene 2-methylnaphthalene. U.S. Public Health Service.

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## PHENANTHRENE

### GENERAL BACKGROUND INFORMATION

Phenanthrene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The database on the potential health effects of phenanthrene is limited.

### PHARMACOKINETICS

Little data are available regarding the pharmacokinetics of phenanthrene. The intestinal absorption of phenanthrene is less dependent on the presence of bile in the stomach than is the absorption of the larger PAHs (such as benzo(a)pyrene) (Rahman et al, 1986).

### HUMAN TOXICOLOGICAL PROFILE

Phenanthrene has been shown to be a skin photosensitizer in humans (Sax, 1984).

### MAMMALIAN TOXICOLOGICAL PROFILE

Phenanthrene has a reported LD 50 of 700 mg/kg in mice (Simmon et al., 1979). Rats injected intraperitoneally evidenced liver effects (Yoshikawa et al, 1987).

There is equivocal evidence for cancer from dermal application of phenanthrene in rats (IARC, 1983). Phenanthrene is not a complete skin carcinogen (ATSDR, 1990). It is neither an initiator (LaVoie et al, 1981; Roe, 1962) nor a promoter (Roe and Grant, 1964). Higgins and Yang (1962) reported no tumor production within two months after the ingestion of 200 mg of phenanthrene by rats.

### GENOTOXICITY

There are limited data that suggest that phenanthrene is mutagenic (Wood et al., 1979). However, the majority of tests are negative (ATSDR, 1990).

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## **PYRENE**

### **GENERAL BACKGROUND INFORMATION**

Pyrene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. As with many of the other PAHs, pyrene has been detected in charbroiled meats and shellfish (U.S. EPA, 1982). It is found in tobacco smoke, industrial stack smoke, and smoke from forest fires.

### **PHARMACOKINETICS**

No data were found regarding the pharmacokinetics of pyrene.

### **HUMAN TOXICOLOGICAL PROFILE**

Pyrene is reported to be a skin irritant (Sax, 1984).

### **MAMMALIAN TOXICOLOGICAL PROFILE**

Rats given 150 mg/kg of pyrene had changes in blood chemistry, liver and kidney damage (USEPA, 1982). A 1989 EPA study (EPA, 1989) reported nephropathy and decreased kidney weights in mice exposed to 125 mg/kg-day of pyrene by gavage for 13 weeks.

Mouse skin painting assays indicate that pyrene is neither a complete skin carcinogen, nor an initiating agent (ATSDR, 1990, IRIS, 1991).

### **GENOTOXICITY**

The majority of genotoxic tests of pyrene are negative.

Positive results have been recorded in Salmonella typhimurium mutagenicity tests and in in vitro mammalian cell systems (ATSDR, 1990).

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## **VOLATILE/EXTRACTABLE PETROLEUM HYDROCARBON FRACTIONS - VPH/EPH**

The following toxicity profile was compiled using information taken directly from MA DEP documents (MA DEP, 1994, 2002, and 2003). Secondary references are cited to the MA DEP document where the information was presented.

### **GENERAL BACKGROUND INFORMATION**

Petroleum products are a complex and highly variable mixture of hundreds of individual hydrocarbon compounds. Industry specifications for refined products, such as gasoline and diesel fuel, are based upon physical and performance-based criteria rather than on a specific chemical formulation. The compositions of petroleum products released to the environment are therefore complex and variable, and are a function of the origin and chemistry of the parent crude oil, the refining and blending processes, and the use of performance-enhancing additives. Once released to the environment, the chemistry of a petroleum product is further altered by contaminant fate and transport processes, such as leaching, volatilization, and biodegradation (MA DEP, 2002).

Although little toxicological data are available for the vast majority of petroleum constituents, it is possible to make some broad observations and conclusions:

- Petroleum products are comprised mainly of aliphatic and aromatic hydrocarbon compounds
- Aromatic hydrocarbons appear to be more toxic than aliphatic compounds; and
- The toxicity of aliphatic compounds appears to be related to their carbon number/molecular weights.

These three precepts are the foundation of the VPH/EPH approach. Under this approach, the non-cancer toxicity of petroleum-contaminated media is established by determining the collective concentrations of specified ranges of aliphatic and aromatic hydrocarbons and assigning a toxicity value (e.g., reference dose) to each range. Well-characterized compounds within specified ranges are selected as “surrogate” indicators to define the toxicity of the entire range (e.g., every aliphatic compound having between 5 and 8 carbon atoms (C<sub>5</sub>-C<sub>8</sub> aliphatic hydrocarbons) are assumed to be as toxic as n-hexane). Cancer effects are evaluated separately by the identification and quantitation of those specific hydrocarbons, such as benzene and certain polycyclic aromatic hydrocarbons (PAHs), which are designated carcinogens. (MA DEP, 2002).

### **HUMAN TOXICOLOGICAL PROFILE - General**

Inhaled or ingested volatile hydrocarbons have both general and specific effects. Many organic solvents, including petroleum hydrocarbons, have the potential on acute high-level vapor exposure to cause central nervous system (CNS) disturbances like disorientation, euphoria, giddiness, and confusion; progressing to unconsciousness, paralysis, convulsion, and death from respiratory or cardiac arrest (Browning, 1965 in MA DEP, 2003). These effects have been observed with aliphatic and aromatic compounds found within the C<sub>5</sub> - C<sub>9</sub> (aliphatics) and C<sub>6</sub> - C<sub>10</sub> (aromatics) carbon ranges.

The acute narcotic effects of the volatile hydrocarbons result from direct chemical action. The similarity of CNS disruption produced by hydrocarbons of diverse structures suggests that these effects result from a common process, which is physical interaction of the solvents with the cells of the CNS (Andrews and Snyder, 1991 in MA DEP, 2003). For example, interaction of the lipid-soluble hydrocarbons with the synaptosomal membranes causes CNS toxicities. The potency of the CNS effects depends on the structure of the individual hydrocarbon molecule.

Other non-specific effects of hydrocarbons are exhibited after prolonged exposure to these agents. The nonspecific effects observed in animals and humans are neurobehavioral toxicities. The neurobehavioral effects are manifested as sensory, cognitive, affective, and motor abnormalities. There is some evidence suggesting that the mechanism of the behavioral effects is alterations in the utilization and turnover of biogenic amines in the brain. These effects occur at lower hydrocarbon concentrations than those producing morphological changes.

Recent animal studies indicate that both aromatic (Korsak and Rydzynski, 1996; Gralewicz et al., 1997 in MA DEP, 2003) and aliphatic (Lund et al., 1995 in MA DEP, 2003) volatile hydrocarbons may cause nonspecific neurobehavioral toxicities with differing intensities depending on the structure of the hydrocarbon.

Distinct from the general CNS effects of hydrocarbons are their associated specific organ toxicities. Examples of such effects include the hematopoietic toxicity of benzene and the neurodegenerative toxicity of n-hexane. The specific toxicities of hydrocarbons may be directly related to their metabolites, as is the case with benzene and n-hexane (Andrews and Snyder, 1991 in MA DEP, 2003).

## **HUMAN TOXICOLOGICAL PROFILE – Volatile/Extractable Petroleum Hydrocarbon Fractions**

### **Aliphatic Fractions**

#### **C<sub>5</sub>-C<sub>8</sub> Aliphatics**

n-Hexane was originally selected by MA DEP as the indicator for this range because its toxicity has been well investigated and also because of some evidence demonstrating that the other alkanes in the group may have similar neurotoxic capacities. The peripheral neurotoxicity of n-hexane is of particular human health concern, although respiratory and irritation effects have also been observed. Several epidemiological studies have demonstrated that human inhalation exposure to n-hexane resulted in polyneuropathy. In the epidemiological studies, exposure was to n-hexane, commercial grade hexane, or other mixtures within the specified carbon ranges for this fraction. The mixtures contained n-hexane at levels ranging from 12.3 to 60%. The data do not allow comparison of the severity of the neuropathy induced by pure n-hexane or the aliphatic mixtures in the series (MA DEP, 2003).

#### **C<sub>9</sub>-C<sub>18</sub> Aliphatics**

Inhalation exposure of painters to white spirit resulted in early disability work status due to neuropsychological disorders. In most of the studies, workers were exposed to mixtures of organic solvents, with the principal component being white spirit. The effects were mainly functional disturbances in the CNS including memory and learning impairments (Lund et al. (1995) and references therein in MA DEP, 2003).

#### **C<sub>19</sub>-C<sub>32</sub> Aliphatics**

No human toxicological data are available. However, emerging studies suggest that exposures to petroleum distillates appear to increase the risk of autoimmune diseases (e.g., undifferentiated connective tissue diseases (Lacey et al., 1999 in MA DEP, 2003)).

### **Aromatic Fractions**

#### **C<sub>6</sub>-C<sub>8</sub> Aromatics**

In the MA DEP fractions approach (MA DEP, 1994), aromatic hydrocarbons with fewer than nine carbon atoms (e.g., benzene, toluene) are evaluated on a compound-specific basis. No toxicity data were identified on mixtures in this carbon range. However, the MA DEP has selected a representative oral reference dose for the carbon range considering the availability of good toxicity data for styrene, ethylbenzene, and xylenes and compositional information for this fraction. The human health concerns for these compounds include CNS effects, mucous membrane irritations, and developmental and reproductive effects.

#### **C<sub>9</sub>-C<sub>32</sub> Aromatics**

The MA DEP grouped the entire range of C<sub>9</sub>-C<sub>32</sub> aromatic hydrocarbon compounds as a single fraction for the purposes of deriving the oral RfD. For the purposes of evaluating inhalation toxicity, MA DEP evaluated the C<sub>9</sub>-C<sub>18</sub> and C<sub>19</sub>-C<sub>32</sub> carbon ranges.

The C<sub>9</sub>-C<sub>18</sub> fraction includes two and three ring PAHs, such as naphthalene, 2-methylnaphthalene, and fluorene; and alkylated benzenes, such as 1,2,4-trimethylbenzene and isopropylbenzene. The critical effects for these compounds from inhalation exposure are pulmonary, hepatic, renal, CNS, and developmental/reproductive effects.

#### C<sub>19</sub>-C<sub>32</sub> Aromatics

No appropriate data were identified to support development of inhalation RfCs for the individual components or mixtures in this carbon range. The compounds in this carbon range are not very volatile and inhalation of gaseous compounds is not a likely route of exposure.

### **ANIMAL TOXICOLOGICAL PROFILE – Volatile/Extractable Petroleum Hydrocarbon Fractions**

#### **Aliphatic Fractions**

##### C<sub>5</sub>-C<sub>8</sub> Aliphatics

Overall, the chronic commercial hexane studies used by the Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG) demonstrated that an inhalation exposure to a hexane mixture containing 53% n-hexane produced no toxicity in rodents. However, and most importantly, other chronic human and animal studies showed that commercial hexane causes peripheral neuropathy. In addition, many potential diketone metabolites of n-alkanes produce peripheral neurotoxicity.

##### C<sub>9</sub>-C<sub>18</sub> Aliphatics

New oral gavage studies on various petroleum streams covering C<sub>9</sub> - C<sub>17</sub> carbon ranges observed adverse effects in the treated animals such as body weight, organ weight, and blood chemistry changes. A recent neurotoxicity study revealed that exposure of rats to dearomatized white spirit for six months induced long-lasting and possibly irreversible effects in the nervous system.

In acute animal studies, white spirit with low aromatic content produced significant reductions in animal response to learned performances. Increased levels in brain noradrenaline, dopamine, and 5-hydroxytryptamine were observed in rats exposed to various levels of white spirit. Changes in indices of oxidative stress in the synaptosomes were also reported in animals exposed to white spirit for 3 weeks.

##### C<sub>19</sub>-C<sub>32</sub> Aliphatics

Based on a rat subchronic feeding study of several different highly refined white mineral oil samples representing various mineral hydrocarbon (MHC) sizes, the low molecular weight (average molecular weight 320-420) MHC caused mesenteric lymph node histiocytosis and liver granulomas, while the high molecular weight MHC demonstrated minimal effect (Smith et al., 1996 in MA DEP, 2003). No inhalation toxicity data are available.

#### **Aromatic Fractions**

##### C<sub>6</sub>-C<sub>8</sub> Aromatics

See discussion under human toxicological profile.

## C<sub>9</sub>-C<sub>32</sub> Aromatics

The C<sub>9</sub>-C<sub>18</sub> fraction includes low molecular weight PAHs and alkylated benzenes. Naphthalene is a hematopoietic and pulmonary toxicant. Inhalation exposure to naphthalene produced severe pulmonary damage and lesions in mice (NTP, 1992 in MA DEP, 2003). A recent oral study of a structurally related compound, 1-methylnaphthalene, suggested that the target site might be the pulmonary tissues. Chronic oral administration of 1-methylnaphthalene was associated with significantly increased nodular alveolar proteinosis in mice. A significant increase in pulmonary adenoma was observed in males (Murata et al., 1993 in MA DEP, 2003). In some short-term, high dose experiments, animals exposed to isopropylbenzene exhibited damage to the spleen and fatty changes to the liver. The critical treatment-related effects were to the kidney (Sandmeyer, 1981 in MA DEP, 2003). Rats exposed to trimethylbenzene demonstrated significant changes in CNS function by the behavioral tests in the higher dose groups (Gralewicz et al., 1997 in MA DEP, 2003). Systemic, reproductive, and developmental toxicities have also been demonstrated in animals exposed to C<sub>9</sub> aromatic mixtures (MA DEP, 2003).

For C<sub>19</sub>-C<sub>32</sub> aromatics, see discussion under human toxicological profile.

## GENOTOXICITY

There are no studies relating TPH-VPH/EPH exposure in humans to genotoxicity. An inhalation oncogenicity study of commercial hexane in rats and mice (API, 1995, Part II in MA DEP, 2003) demonstrated liver tumors in female mice in the highest dose group.

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## **LEAD**

### **GENERAL BACKGROUND INFORMATION**

Lead is used extensively in the manufacture of storage batteries and was used in gasoline and paint. Lead is also a natural constituent of many soils, for which concentrations normally range from 10 to 30 mg lead per kilogram of soil (U.S. EPA, 1980).

### **PHARMACOKINETICS**

Lead can be absorbed by the oral, inhalation or dermal exposure routes (see section on Relative Absorption Factors). Gastrointestinal absorption of lead varies considerably depending upon chemical form, dietary intake, and age (Forbes and Reina, 1974; Bartrop and Meek, 1975). The deposition and absorption of inhaled lead depends upon particle size, chemical form and the rate and depth of breathing (Randall et al., 1975; Nozaki, 1966; Chamberlain et al., 1975). Once absorbed, lead is distributed to the various organs of the body, with most distribution occurring into mineralized tissues (ATSDR, 1990). Placental transfer to the developing fetus is possible (Bellinger et al., 1987). Inorganic lead is not known to be biotransformed within the body. Absorbed lead is excreted via the urinary or fecal routes (ATSDR, 1990)

### **HUMAN TOXICOLOGICAL PROFILE**

Cases of acute lead poisoning in humans are not common and have not been studied in experimental animals as thoroughly as chronic lead poisoning. Symptoms of acute lead poisoning from deliberate ingestion by humans may include vomiting, abdominal pain, hemolysis, liver damage, and reversible tubular necrosis (U.S. EPA, 1984). Subacute exposures in humans reportedly may produce a variety of neurological effects including dullness, restlessness, irritability, poor attention span, headaches, muscular tremor, hallucinations, and loss of memory. Nortier et al., (1980) report encephalopathy and renal damage to be the most serious complications of chronic toxicity in man and the hematopoietic system to be the most sensitive. For this reason, most data on the effects of lead exposure in humans are based upon blood lead levels. The effects of lead on the formation of hemoglobin and other hemoproteins, causing decreased levels, are reportedly detectable at lower levels of lead exposure than in any other organ system (Betts et al., 1973). Peripheral nerve dysfunction is observed in adults at levels of 30 to 50  $\mu\text{g}/\text{dL}$ -blood. Children's nervous systems are reported to be affected at levels of 15  $\mu\text{g}/\text{dL}$ -blood and higher (Benignus et al., 1981). In high doses, lead compounds may potentially cause abortions, premature delivery, and early membrane rupture (Rom, 1976).

## MAMMALIAN TOXICOLOGICAL PROFILE

Acute oral lethal doses of lead in animals depend upon chemical form, but generally range from 500 to 30,000 mg/kg. Several reproduction studies on the effects of subchronic oral exposure to lead in rats have been conducted (Kimmel et al., 1976; Grant et al., 1980; Fowler et al., 1980). These studies report that lead acetate administered in drinking water at various concentrations caused depressed body weights at 50 and 250 mg-Pb/L water, histological changes in the kidneys of offspring, cytokaryomegaly of the tubular epithelial cells of the inner cortex at concentrations greater than or equal to 25 mg/L and postnatal developmental delays at 50 to 250 mg/L. Higher oral doses of lead may result in decreased fertility and fetotoxic effects in a variety of species (Hilderbrand et al., 1973). A reduction in the number of offspring of rats and mice exposed to 25 mg Pb/L drinking water with a chromium deficient diet was reported by Schroeder et al. (1970). Chronic oral exposure of female Long-Evans rats to lead (5 mg/PB/L-water) reportedly resulted in slight effects on tissue excitability, systolic blood pressure, and cardiac ATP concentrations (Kopp et al., 1980a,b).

## GENOTOXICITY

Results of *in vitro* studies with human lymphocyte cultures using lead acetate were nearly equally positive and negative. Results of *in vivo* tests are also contradictory but suggest that lead may have an effect on chromosomes (sister chromatid exchange).

Results for gene mutations, DNA modification, and recombinations in various microorganisms using lead acetate, lead nitrate and lead chloride were consistently negative with or without metabolic activation. Lead chloride has been reported to inhibit both DNA and RNA synthesis. In *in vitro* mammalian test systems, lead acetate gave conflicting results.

No epidemiological data regarding the oral carcinogenic potential of lead could be located in the available literature. Chronic inhalation may result in a statistically significant increase in deaths due to tumors in the digestive organs and respiratory systems in lead smelter workers and battery plant workers (Kang et al., 1980). Several studies have reported tumor formation in experimental animals orally administered specific lead salts, not normally ingested by humans (Zawirska and Medras, 1972; Boyland et al., 1962; Ito, 1973). The carcinogenicity of inhaled lead in experimental animals could not be located in the available literature. The U.S. EPA has classified lead and lead compounds as Group B2 - Probable Human Carcinogens.

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## **POLYCHLORINATED BIPHENYLS (PCBs)**

### **GENERAL BACKGROUND INFORMATION**

The thermal stability, nonflammability, and dielectric capability of PCBs resulted in their use in electrical capacitors and transformers (NIOSH, 1986). The manufacturing, processing, distribution in commerce, and use of PCBs after January 1, 1978 was prohibited under Section 6(e) of the Toxic Substances Control Act. PCBs can be released to the environment during fires involving electrical equipment containing these compounds. PCBs are strongly adsorbed on solid surfaces, including glass and metal surfaces in laboratory apparatus, and onto soils, sediments, and particulates in the environment.

### **PHARMACOKINETICS**

Gastrointestinal absorption of most PCB isomers is large. PCBs can also be absorbed by the inhalation and dermal routes but limited data are available (see section on Relative Absorption Factors). Distribution of PCBs follows a biphasic pattern. Initially, PCBs distribute to liver and muscle tissue. They are then redistributed to the fat, skin, and other fat-containing organs (ATSDR, 1989). PCBs are poorly metabolized in humans with major metabolites being 3- or 4-hydroxy compounds. Metabolism may proceed through formation of arene oxide intermediates (U.S. EPA, 1988). The slow metabolism of PCB congeners to more polar compounds is responsible for long biological half-lives of PCBs. Excretion occurs primarily through the feces (Goto et al., 1974).

### **HUMAN TOXICOLOGICAL PROFILE**

Dermatologic signs are the most persistent indicator of PCB toxicity. Skin manifestations have been observed also in newborn infants of mothers exposed to high levels of PCBs and related compounds. Cases of severe chloracne were reported in a work environment in which PCB air levels were found to be between 5.2 and 6.8 mg/m<sup>3</sup>. The workers developing chloracne had been exposed for 2 to 4 years. Other analyses revealed worker complaints of dry sore throat, skin rash, gastrointestinal disturbances, eye irritation, and headache at work area concentrations of 0.013 to 0.15 mg PCB/m<sup>3</sup>. Higher blood PCB levels are associated with higher serum triglyceride and/or cholesterol levels, as well as high blood pressure. Air PCB concentrations as low as 0.1 mg/m<sup>3</sup> can produce toxic effects, and exposure to levels producing no overt toxicity can affect liver function. Recovery after termination of exposure occurs but is slow and depends upon the amount of PCBs stored in adipose tissue (Clayton and Clayton, 1981). Human exposures to PCBs resulting in toxic effects have almost all resulted from the ingestion of rice oil contaminated with "Kanechlor 400" in Japan (resulting in Yusho or rice oil disease) or from industrial exposure. Clinical symptoms of poisoning included acne-like skin eruptions (chloracne), eyelid edema, conjunctival discharge, skin and nail pigmentation, and hyperkeratosis. Yusho patients are estimated to have ingested approximately 0.07 mg/kg/day for at least 50 days. The rice oil was found to be contaminated with polychlorinated dibenzofuran, which is believed to have played a significant role in the observed toxicity (Bandiera et al., 1984; Kashimoto et al., 1981). As suggested by laboratory experiments with Rhesus monkeys, fetal and newborn primates, including humans, may be particularly susceptible to PCBs. Fein et al. (1984) studied the effects of low-level chronic exposure to PCBs in pregnant women and their newborn offspring from consumption of Lake Michigan fish. Low levels of PCBs were reported to cause decreases in birth weight, head circumference, and gestational age of the newborn. PCBs were apparently transmitted to the fetus across the placenta and to the newborn through breast milk. Behavioral deficiencies, including immaturity of reflexes and depressed responsiveness, were reportedly observed in infants exposed to PCBs. Jacobson et al. (1984) correlated maternal consumption of PCB-contaminated fish with behavioral abnormalities in newborns,

including autonomic immaturity and depressed responsiveness. The authors likened these responses to similar effects in laboratory animals.

## MAMMALIAN TOXICOLOGICAL PROFILE

PCBs are only slightly toxic in acute exposures to laboratory animals. LD<sub>50</sub> values for rats, rabbits, and mice are generally in the range of 1 to 10 g/kg body weight (U.S. EPA, 1980). Nonhuman primates seem to be particularly sensitive to PCB-induced reproductive effects (U.S. EPA, 1980). Dietary exposures of cynomolgus and Rhesus monkeys to 200 ug of Aroclor 1254/kg-day, 5 days per week for 28 months, resulted in symptoms of enlarged tarsal glands, conjunctivitis, loss of eyelashes, progressive detachment of fingernails, exuberant nail beds, hyperplasia of biliary ducts, hepatocellular enlargement and necrosis, and normocytic anemia (Tryphonos et al., 1986a; Tryphonos et al., 1986b). Effects were less pronounced in cynomolgus monkeys.

Monkeys that were fed diets containing 1.0 ppm of Aroclor 1016 for approximately 7 months prior to mating and during pregnancy delivered infants with reduced birth weights (Barsotti and Van Miller, 1984). Fetal mortality occurred at >2.5 ppm (0.1 mg/kg/day) of Aroclor 1248 in the diet in other studies with monkeys (Allen and Barsotti, 1976; Barsotti et al., 1976; Allen et al., 1980). In rats, a dose of 269 ppm of Aroclor 1254 given continuously in the food over the duration of pregnancy caused a decrease in the number of impregnated rats that delivered litters. Pups that were born were underweight, and most died within 7 days of birth. Two lower doses (26 and 2.5 ppm) caused altered neurobehavioral and somatic ontogeny (Overmann et al., 1987). PCBs have been shown to be teratogenic in mice. Cleft palate, dilated kidney pelvis, and thymus hypoplasia were observed. The ED50 (effective dose for 50% of the animals) for formation of cleft palate was a single 100 mg/kg dose, with peak sensitivity occurring on the twelfth day of gestation (d'Argy et al., 1987).

Immunological effects (decreased IgM, IgG induction) were noted in monkeys following a 27 month exposure at a dose of 0.005 mg/kg/day (Tryphonos et al., 1989).

## GENOTOXICITY

Most genotoxicity assays of PCBs have been negative. The majority of microbial assays of PCB mixtures and various congeners show no evidence of mutagenic effects (U.S. EPA, 1980). The carcinogenic effects of PCBs have been studied in rats and mice. In a study conducted by Kimbrough et al. (1975) rats were exposed via the diet to 100 ppm Aroclor 1260 for 21 months. Hepatocellular carcinomas were observed in 26 of the 184 treated rats but only in one of the 173 controls. Neoplastic nodules were not found in controls but occurred in 144/184 of treated rats. The National Cancer Institute (NCI, 1978) reported a high incidence of hepatocellular proliferative lesions in male and female Fischer 344 rats fed three dose levels of Aroclor 1254 for 104-105 weeks, but, in part due to the small number of animals tested, carcinogenicity was not statistically demonstrable. Norback and Weltman (1985) fed a diet containing relatively high concentrations Aroclor 1260 (100 ppm for 16 months followed by 50 ppm for an additional 8 months) to Sprague-Dawley rats. In the PCB-exposed group, neoplastic nodules were observed at 12 months followed by trabecular carcinoma at 15 months and adenocarcinoma at 24 months (52/93). In the control rats, the incidence of hepatocellular neoplasms was low (1/81). Metastases to distant organs was not observed and mortality in the PCB exposed animals was not increased. The incidence of these slow-growing hepatocellular neoplasms was strikingly higher in female rats than in male rats.

PCBs (Clophen C) have also been shown to be cocarcinogenic. When PCBs were mixed with diethylnitrosamine (DENA), twice as many tumors were observed as were observed in animals treated with DENA alone (Brunn, 1987).

Based on the positive evidence for carcinogenicity of Aroclor 1254, Aroclor 1260, Kaneclor 500, and Clophen A-30 and A-60 in animals, along with adequate evidence in humans, the U.S. EPA has placed these PCBs in category B2 - probable human carcinogen (U.S. EPA, 1988).

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# **APPENDIX G**

CLC Consulting Group

P.O. Box 9531, Fall River, Massachusetts 02720

# Environmental Site Assessment

*Vacant Property  
South Terminal  
New Bedford, Massachusetts*

*Prepared For:*  
Shuster Corporation  
4 Wright Street  
New Bedford, Massachusetts

*Submitted By:*  
CLC CONSULTING GROUP  
P.O. Box 9531  
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*CHERRY*

April 2006

Project No. 05-1029

# CLC Consulting Group

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April 28, 2006

Steven Shuster  
Shuster Corporation  
4 Wright Street  
New Bedford, Massachusetts 02740

**Subject: NEW BEDFORD – Environmental Consulting Services  
Summary of Findings  
Vacant Lot/South Terminal**

Dear Mr. Shuster:

In accordance with your request, CLC Consulting Group (CLC) is pleased to submit this summary of findings relative to the limited Environmental Site Assessment (ESA) conducted at the approximate six acre parcel of land located between Wright Street and Potomska Street in the South Terminal of New Bedford, Massachusetts (herein, the site). Authorization to proceed on this project was granted in accordance with the signed agreement between the Shuster Corporation (herein the client) and CLC dated December 15, 2005.

## **1.0 Project Objective:**

The objectives of the ESA were:

- To provide an opinion on whether current laboratory analytical data collected, surficial observations made and/or historical research information obtained by CLC indicated a release and/or threat of release at the site as defined by the Massachusetts Contingency Plan (MCP)(310 CMR 40.00); and
- To advise the Shuster Corporation relative to the implications under the MCP, if such release conditions existed.

## **2.0 Scope of Services:**

The scope of services for this assessment consisted of the following activities:

- Review of selected federal and state regulatory agency databases for the subject site and area properties;
- Contact with local agencies to inquire about environmental conditions at the site and its vicinity;
- A review of the site history through selected ASTM Standard Historical Sources;

- A site reconnaissance to make surficial observations for evidence of a release of oil or hazardous materials (OHM) to the environment;
- Collect soil and groundwater from select locations on the site from monitoring wells installed as part of this assessment; and
- Prepare this summary of findings.

### 3.0 Site Location and General Characteristics:

The site encompasses a 7.75 acre vacant parcel of land located approximately 230 feet south of Wright Street and immediately west of the Acushnet River in the South Terminal of New Bedford, Massachusetts. Approximately  $\frac{3}{4}$ 's of an acre of the site is bordering vegetated wetlands and 1.0 acre is land under water. A 30 foot drainage easement is present in the northwest corner of the property. The site, which is located in a mixed use area of industrial, limited residential and undeveloped properties, is bordered to the north by industrial properties, to the west by vacant land which houses a radio tower, to the south by industrial properties and undeveloped land and to the east by the Acushnet River. The site is not located within a groundwater or surface water protected resource area such as a Zone II, Interim Wellhead Protection Area or a Zone A of a Class A surface water body. There are no known private drinking water wells within 500 feet of the site. A portion of the site is located within the 100-year flood plain for the Acushnet River. The site and its prominent natural features are shown on the New Bedford South, Massachusetts United States Geologic Services (USGS) topographic map included as Figure 1. The approximate site coordinates are 41°37'23" North latitude by 70°54'58" West longitude. Figure 2 is the MassGIS Map which shows the site location in relation to groundwater resource areas, fresh and saltwater wetlands, protected open space and areas of critical environmental concern. Figure 3 is an aerial map of the site and the immediate vicinity as it appeared in 2001. Since 2001 an industrial use building has been constructed immediately southwest of the subject site.

### 4.0 Site History:

A *Sanborn Fire Insurance Map Report* which included maps dating from 1888 to 1995 was reviewed to establish historical site uses. The report was prepared by Environmental Data Resources, Inc. for Metcalf & Eddy in April 1999. The maps indicate the Potomska Mill Complex encompassed the entire site from as early as 1888 to approximately 1935 when the complex was demolished. As indicated on the maps the petroleum gas machine, gasometer, coal bin, furnace and boilers which serviced the complex were located within the site limits. Maps dated 1950, 1990, 1993 and 1995 show the site as undeveloped. The *Sanborn Map Report* is included as Appendix A.

### 5.0 State Database Review:

The Massachusetts Department of Environmental Protection's (MADEP) Bureau of Waste Site Cleanup database which includes reportable releases under the Massachusetts Contingency Plan (MCP) was reviewed for this assessment. There were no listed sites within the subject site limits. The closest listed sites are Release Tracking Numbers (RTNs) 4-15490 and 4-17027 located directly to the south and southwest of the subject site on the northerly side of Blackmer Street. Both listed sites were formerly part of the New Bedford Standard Times Field property and historic property uses included millwork from the 1880's through 1924. On January 18, 2006 CLC met with Scott Alfonse, the City

Planner for New Bedford, to obtain pertinent information on these sites. The site locations are included as Figure 4 prepared by Metcalf & Eddy dated 1/18/00.

According to Mr. Alfonse assessments performed in 2000 on the site referred to as Lot 3/RTN 4-15490 detected elevated levels of Lead in soils located in the southwest corner of the site, approximately 300 feet from the subject site's southerly boundary. The site was Tier Classified and additional assessment has been recommended.

An assessment conducted in 2001 on the site referred to as Lots 1B & 2A/RTN 4-17027 detected Lead and PAHs in soils at levels exceeding reportable concentrations. The presence of Lead resulted in a notification to the MADEP while PAHs were determined to be attributable to the historic on-site use and storage of coal and were exempt from notification. An Immediate Response Action (IRA) was conducted which included the excavation and disposal of impacted surface soils resulting in a Class A-2 Response Action Outcome Statement (RAO) submittal to the MADEP in September 2003. A Class A-2 RAO applies to sites where a permanent solution has been achieved (i.e. remediation activity conducted), where levels of contaminants have not been reduced to background but an Activity Use Limitation (AUL) is not required to achieve a level of no significant risk. Based on the fact that contamination was limited at both sites to on-site soil, and groundwater was determined to flow a southeasterly direction, it is unlikely these sites would have an adverse impact on the subject site.

#### 6.0 Subsurface Investigation Summary:

On December 29, 2005 Technical Drilling Services (TDS) of Sterling, Massachusetts performed six soil borings which were completed as groundwater sampling micro-wells throughout the site in the approximate locations as shown on Figure 3. The wells were installed in order to observe and sample soil and groundwater in an effort to assess for the possible presence of oil or hazardous materials. The drilling oversight and sampling was performed by Cheryl L. Coderre, Licensed Site Professional for CLC. With the exception of Boring 5, the borings were completed to an approximate depth of 12 feet below the ground surface. Groundwater was encountered at Borings 1-4 at approximately 5½ feet below the ground surface and at Borings 5-6 located in closest proximity to the Acushnet River approximately 3 feet. The logs below indicate the soil conditions observed which were indicative of granular fill conditions:

Boring #1	Boring #2	Boring #3	Boring #4	Boring #5	Boring #6
0-5' Course sand, some gravel	0-5' Medium to course sand & stones	0-2' Brown sand, organics & roots	0-1' Organics	0-4' Black sand with organics	0-3' clean sand
5-10' Silty sand, some clay	5-10' Silty sand with stone, roots and pieces of coal	2-2½' Orange sand	1-3' Roots, black fill, brick	4-6' Brown sand with some silts & gravel	3' fill, wood
		2½-3½' Clean sand & gravel	3-5' Medium dark clean sand, shells		3-7' clean sand
Refusal @ 12'	Refusal @ 12'	3½-5' Black fill, sand & gravel, coal ash	6' Muck layer	Completed @ 6'	8' organics, black fill
		8-10' Gray silt & clay			
		Completed @ 12'	7-10' Gray sand with some silt		9-10' Silty sand

### **Soil Sampling Summary**

On December 29, 2005 nine discreet soil samples were collected and analyzed from the six boring locations for the presence of oil and/or hazardous materials which could result from former site uses, specifically Extractable Petroleum Hydrocarbons with target Polycyclic Aromatic Hydrocarbons (MADEP Method EPH with PAHs), Volatile Petroleum Hydrocarbons with target analytes (MADEP Method VPH with targets), Dissolved RCRA Metals (RCRA 8), Polychlorinated Biphenyls (PCBs) and Cyanide. The parameters chosen for analysis were determined based on historic use of the site and information obtained on the general site area.

Soils were sampled from B-1 @ 0-5 feet, B-2 @ 0-5 feet and 5-10 feet, B-3 @ 0-5 feet, B-4 @ 1-3 feet and 6 feet, B-5 @ 0-4 feet and B-6 @ 2-3 feet and 8 feet. Soils were collected at varying depths throughout the site from soil layers observed to contain fill and/or debris rather than layers appearing to consist of clean material.

### **Analytical Soil Result Summary**

The analytical results were compared to site applicable reportable concentrations as established by the Massachusetts Department of Environmental Protection (MADEP), specifically category RCS-2. The most conservative reporting category, RCS-1, applies to soil located 1) at or within 500 feet of a residential dwelling, a residentially-zoned property, school, playground, recreational area or park or 2) within the geographic boundaries of a groundwater resource area. Reporting category RCS-2 applies to all samples not obtained within a RCS-1 category.

When oil or hazardous materials are present in levels that exceed reportable concentrations, a release as defined by the MADEP's Massachusetts Contingency Plan (MCP) exists which requires notification to the Department and the implementation of specific response actions. With the exception of the following PAH compounds, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene, the analytical soil results were below the applicable reportable concentrations. The above referenced PAH compounds were detected at levels exceeding the applicable reportable concentrations at five of the six sample locations constituting a release as defined by the regulations, however it qualifies as a release which is exempt from notification pursuant to 310 CMR 40.0317 which are releases of oil and/or hazardous materials related to coal or coal ash. This justification is based on the presence of coal and coal ash observed in the on-site soils as well as the historical data which indicated that the process of coal gasification occurred within the site limits.

The soil results as well as the reporting concentrations and average concentrations in soil containing coal ash associated with fill material are shown on Table 1. The laboratory analytical data reports are included as Appendix B.

### **Asbestos Assessment**

The MADEP Bureau of Waste Site Cleanup is in the process of promulgating regulations which will require notification and subsequent response actions for specific conditions when asbestos is present in on-site soils. Asbestos is an environmental contaminant sometimes encountered at previously developed sites. It is highly hazardous to human health when inhaled, but it presents no risk when there is no route of exposure (e.g. it is buried at depth in soil or located under some type of barrier).

**Table 1**  
**Soil Sampling Results**

Sample Location	B-1 0-5'	B-2 0-5'	B-2 5-10'	B-3 0-5'	B-4 1-3'	B-4 6'	B-5 0-4'	B-6 2-3'	B-6 8'	MCP	DEP
Sample Date	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	RCS-2	Background
Parameter											
<b>Extractable Petroleum Hydrocarbons</b>											
C9-C18 Aliphatic Hydrocarbons	<10	N/S	<10	<10	N/S	<10	<10	N/S	<10	2,500	N/A
C19-C36 Aliphatic Hydrocarbons	21	N/S	10	10	N/S	<10	11	N/S	13	5,000	N/A
C11-C22 Aromatic Hydrocarbons	57	N/S	210	28	N/S	<10	53	N/S	40	2,000	N/A
<b>Targeted PAH's</b>											
Naphthalene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	14	1,000	1.0
2-Methylnaphthalene	<0.4	N/S	<2.0	<0.4	N/S	<0.4	<0.4	N/S	<0.4	1,000	1.0
Acenaphthylene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	1,000	1.0
Acenaphthene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	2,500	2.0
Fluorene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	2,000	2.0
Phenanthrene	2.6	6.0	2.1	<0.4	13	<0.4	1.4	2.1	1.1	100	20
Anthracene	0.6	3.0	<2.0	<0.4	3.0	<0.4	<0.4	<0.7	<0.4	2,500	4.0
Fluoranthene	3.1	23	17	0.8	17	<0.4	2.4	3.0	<0.4	1,000	10
Pyrene	3.7	19	19	0.8	16	<0.4	3.3	2.8	<0.4	2,000	20
Benzo(a)anthracene	1.4	13	11	<0.4	8.0	<0.4	1.5	1.6	<0.4	1.0	9.0
Chrysene	1.5	11	8.8	0.5	7.0	<0.4	1.7	1.5	<0.4	10	7.0
Benzo(b)fluoranthene	1.3	14	7.6	0.6	8.0	<0.4	2.7	1.9	0.5	1.0	8.0
Benzo(k)fluoranthene	1.2	7.0	9.6	0.4	4.0	<0.4	1.2	<0.7	<0.4	10	4.0
Benzo(a)pyrene	1.5	13	11	0.4	7.0	<0.4	2.1	1.4	<0.4	0.7	7.0
Indeno(1,2,3-cd)pyrene	1.0	4.0	7.6	<0.4	3.0	<0.4	1.5	<0.7	<0.4	1.0	3.0
Dibenzo(a,h)anthracene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	0.7	1.0
Benzo(g,h,i)perylene	0.9	4.0	6.0	<0.4	2.0	<0.4	1.7	<0.7	<0.4	2500	3.0
<b>Volatile Petroleum Hydrocarbons</b>											
C5-C8 Aliphatic Hydrocarbons	<3.0	N/S	<3.0	<3.0	N/S	11	<3.0	N/S	<25	400	N/A
C9-C12 Aliphatic Hydrocarbons	<1.0	N/S	<1.0	<1.0	N/S	23	<1.0	N/S	190	1,000	N/A
<b>VPH Analytes</b>											
MTBE	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	<2.0	200	N/A
Benzene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	6.0	60	N/A
Toluene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	<2.0	500	N/A
Ethylbenzene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	23	500	N/A
m- & p-Xylenes	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	20	500	N/A
o-Xylene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	14	500	N/A
Naphthalene	<0.3	<2.0	<0.3	<0.3	<2.0	<0.8	<0.3	<0.7	89	1000	1.0
<b>Total Metals</b>											
Arsenic	<5.3	N/S	<5.3	<5.2	N/S	<12	<5.6	N/S	<20	30	20
Barium	21	N/S	19	19	N/S	50	22	N/S	79	2,500	50
Cadmium	<0.26	N/S	<0.27	<0.26	N/S	<0.62	<0.28	N/S	<1.0	80	3.0
Chromium	7.2	N/S	6.2	6.9	N/S	21	8.5	N/S	32	2,500	40
Lead	19	78	16	20	140	91	41	230	160	600	600
Mercury	0.26	N/S	0.16	<0.11	N/S	<0.24	0.16	N/S	<0.38	60	1.0
Selenium	<10	N/S	<11	<10	N/S	<25	<11	N/S	<41	2,500	1.0
Silver	<1.0	N/S	<1.1	<1.6	N/S	<3.7	<1.7	N/S	<6.2	200	5.0
<b>Total Cyanide</b>	<11	<11	<10	<10	<11	<16	<11	<12	<12	100	N/A
<b>Polychlorinated Biphenyls (PCBs)</b>	0.77	N/S	<0.7	<0.7	N/S	<0.7	0.72	N/S	<0.7	2.0	N/A

**Notes:**

1. N/S - Not sampled
2. Shaded results above reportable concentrations
3. N/A - Not applicable
4. DEP Background - Levels of PAHs and metals in soil
5. Units reported as mg/kg (ppm)

Accordingly asbestos must be properly managed when either it is brought to the ground surface during excavation or when its cover is disturbed.

As part of this assessment CLC collected a single soil sample for asbestos screening from Boring Location #6 due to visual evidence of asbestos containing material (ACM) at a depth below the ground surface of 2 to 3 feet. The laboratory results, which detected positive for the presence of asbestos, are included as Appendix B. This was the only location, of the locations investigated, where suspect ACM was observed to be present. Although ACM was not observed to be present on the ground surface, actual sampling and analysis of surface soils was not conducted and therefore ACM on the surface cannot be ruled out. Based on the limited nature of this asbestos assessment it is unclear whether "asbestos containing debris" has been improperly disposed of in the ground at the site or if unconsolidated asbestos fibers in soil are present. In either case it is our opinion that further investigation in this regard would be necessary prior to any site disturbance for proposed development.

#### **Groundwater Sampling and Result Summary**

Groundwater underlies the site at the shallow depths ranging from approximately 3–6 feet below the ground surface. Groundwater was sampled from three of the on-site wells to assess for the presence of contamination by analyzing for MADEP Method EPH with PAHs, MADEP Method VPH with targets, RCRA 8, PCBs and Cyanide. No visible sheen or noxious odors were noted during the sampling round conducted on January 6, 2006. The analytical results were compared to site applicable reportable concentrations, specifically category RCGW-2. The more conservative reporting category RCGW-1 applies to groundwater located within any of the following aquifer protection areas which are not applicable:

- a) sites located within Zone II for a public water supply;
- b) sites located within the Interim Wellhead Protection Area for a public water supply;
- c) sites located within a Zone A of a Class A surface water body used as a public water supply;
- d) sites located within 500 feet of a private water supply.

The reported levels for all parameters tested on the site groundwater were not above applicable RCGW-2 reportable concentrations.

#### **Findings and Conclusions:**

Groundwater monitoring wells and soil borings were installed in six locations throughout the site to inspect and analyze groundwater and soil for the possible presence of oil and/or hazardous materials resulting from former site and/or general area uses. The on-site soils were observed to consist of granular fill materials containing debris, coal, coal ash and wood. The contaminants detected during the assessment were limited to the presence of PAH compounds which are typically formed during the incomplete combustion of organic material including wood and coal. Accordingly, the DEP has established background levels of PAHs in soil found in areas with fill material which are not indicative of pristine conditions. Therefore it is the opinion of CLC that a release to the environment as defined by the MCP requiring notification and subsequent response actions does not exist.

While such conditions described above are not subject to regulation by the MADEP, the Department encourages parties to mitigate potential exposures whenever possible. During future development of the site such mitigation measures could include:

- providing clean soil (down to a depth of 3 feet) in residential settings (not applicable), and
- providing clean corridors for utility lines (applicable during future site development).



## *List of Figures*

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*Figure 1 – USGS Locus Map*

*Figure 2 – MassGIS Map*

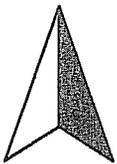
*Figure 3 – 2001 Aerial Map*

*Figure 4 – 2000 Metcalf & Eddy Map*



Scale: 1:25,000

N



Quadrangle:  
New Bedford,  
North

Figure 1

Client:

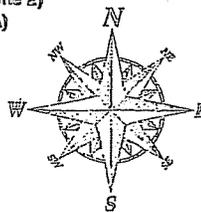
Shuster Corp  
4 Wright Street  
New Bedford, Massachusetts

CLC Consulting Group  
P.O. Box 9531  
Fall River, Massachusetts



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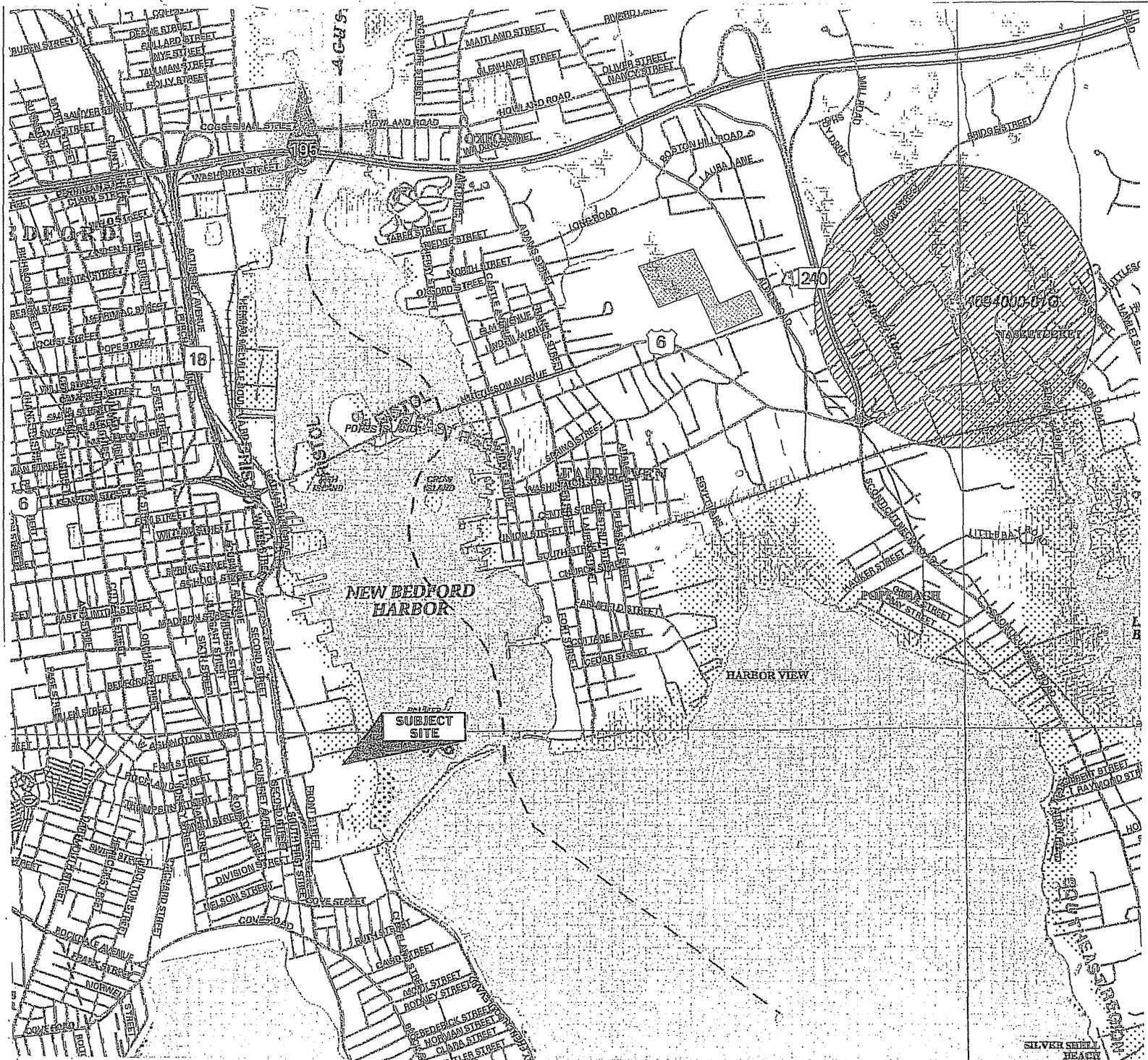
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-  Non Potential Drinking Water Source Area: High Yield
-  Potentially Productive Medium Yield Aquifer
-  Potentially Productive High Yield Aquifer
-  EPA Designated Sole Source Aquifer
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-  DEP Interim Wellhead Protection Area (IWPA)
-  DEP Surface Water Supply Zone A
-  Public Surface Water Supply
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-  Salt Water Wetland
-  Protected and Recreational Open Space
-  Areas of Critical Environmental Concern
-  Solid Waste Landfills
-  NHESP 1999 Estimated Habitats for Rare Wetlands Wildlife: Use with Wetlands Protection Act
-  NHESP 1999-2001 MA Certified Vernal Pools
-  State, U.S., Interstate Routemarkers
-  Limited Access Highway
-  Multi-lane Hwy, not Limited Access
-  Other Numbered Highway
-  Major Road - Collector
-  Minor Street or Road
-  Track
-  Trail
-  Train
-  Powerline
-  Pipeline
-  Municipal Boundary
-  County Boundary
-  Major Drainage Basin
-  Sub Drainage Basin
-  Zone2 or IWPA Boundary
-  Aqueduct
-  Stream: Perennial, Intermittent
-  Public Water Supplies: Surface, Ground, Non Comm.



REFERENCE: MA DEP- BUREAU OF WASTE SITE CLEANUP, NEW BEDFORD, NORTH QUAD, 2006, SCALE 1:25,000.

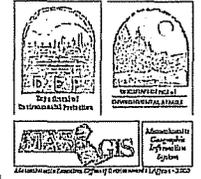
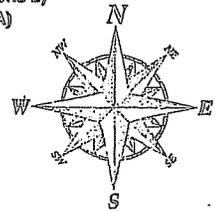
**FIGURE 2 – MASS GIS MAP**

VACANT LOT  
NEW BEDFORD, MASSACHUSETTS



LEGEND:

- Non Potential Drinking Water Source Area: Medium Yield
- Non Potential Drinking Water Source Area: High Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- EPA Designated Soils Source Aquifer
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- DEP Interim Wellhead Protection Area (IWPA)
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- Multi-lane Hwy, not Limited Access
- Other Numbered Highway
- Major Road - Collector
- Minor Street or Road
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- Trail
- Train
- Powerline
- Pipeline
- Municipal Boundary
- County Boundary
- Major Drainage Basin
- Sub Drainage Basin
- Zone 2 or IWPA Boundary
- Aqueduct
- Streams: Perennial, Intermittent
- Public Water Supplies: Surface, Ground, Non Comm.

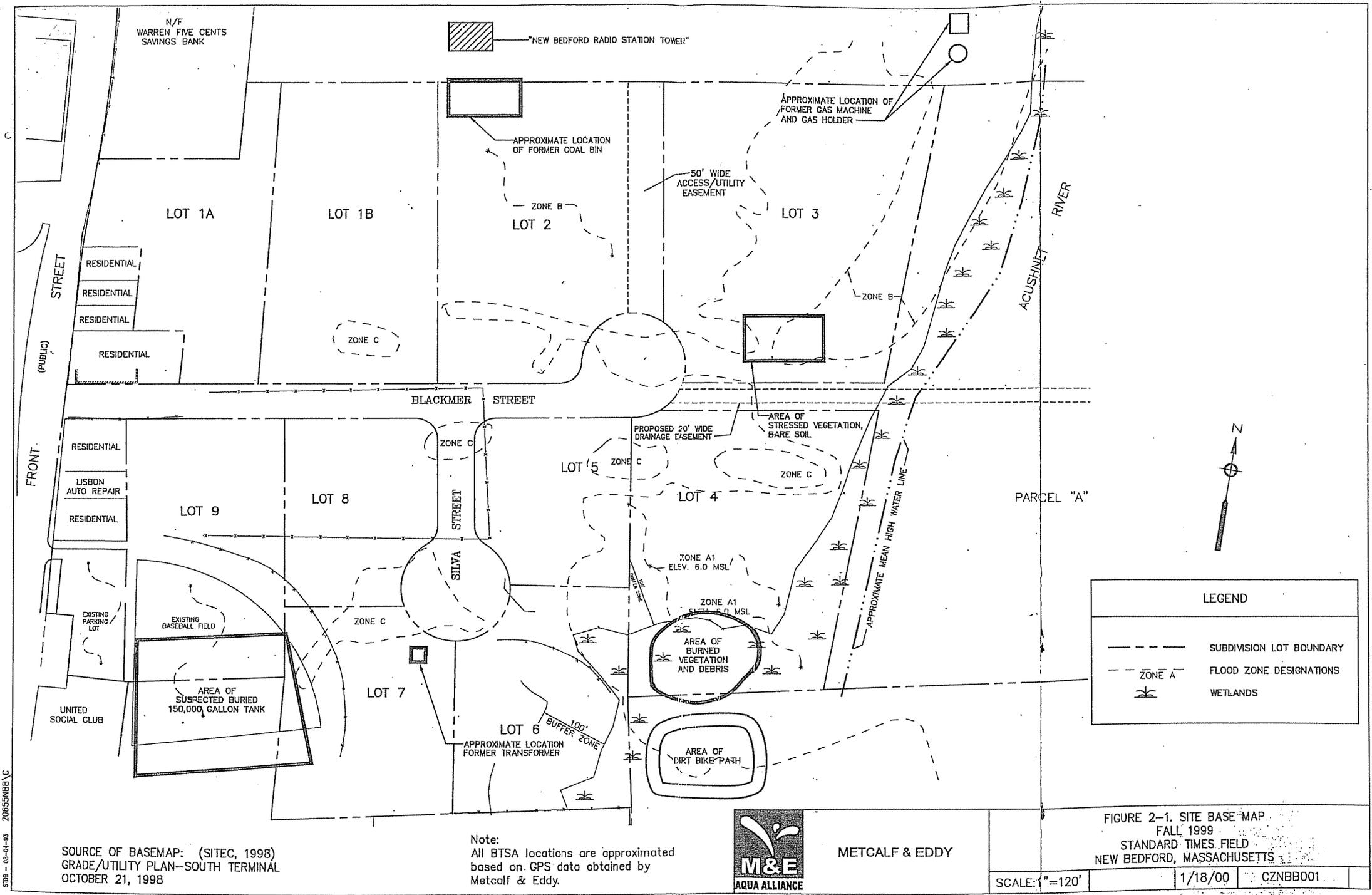


REFERENCE: MA DEP- BUREAU OF WASTE SITE CLEANUP, NEW BEDFORD, NORTH QUAD, 2006, SCALE 1: 25,000.

FIGURE 2 – MASS GIS MAP

VACANT LOT  
NEW BEDFORD, MASSACHUSETTS

SILVER SHIELD  
MAPS



LEGEND	
	SUBDIVISION LOT BOUNDARY
	FLOOD ZONE DESIGNATIONS
	WETLANDS

SMB - 02-01-03 20655NBBVC

SOURCE OF BASEMAP: (SITEC, 1998)  
 GRADE/UTILITY PLAN-SOUTH TERMINAL  
 OCTOBER 21, 1998

Note:  
 All BTSA locations are approximated  
 based on GPS data obtained by  
 Metcalf & Eddy.



METCALF & EDDY

SCALE: " = 120'

FIGURE 2-1. SITE BASE MAP  
 FALL 1999  
 STANDARD TIMES FIELD  
 NEW BEDFORD, MASSACHUSETTS

1/18/00 CZNBB001



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 Fall River, Massachusetts 02720

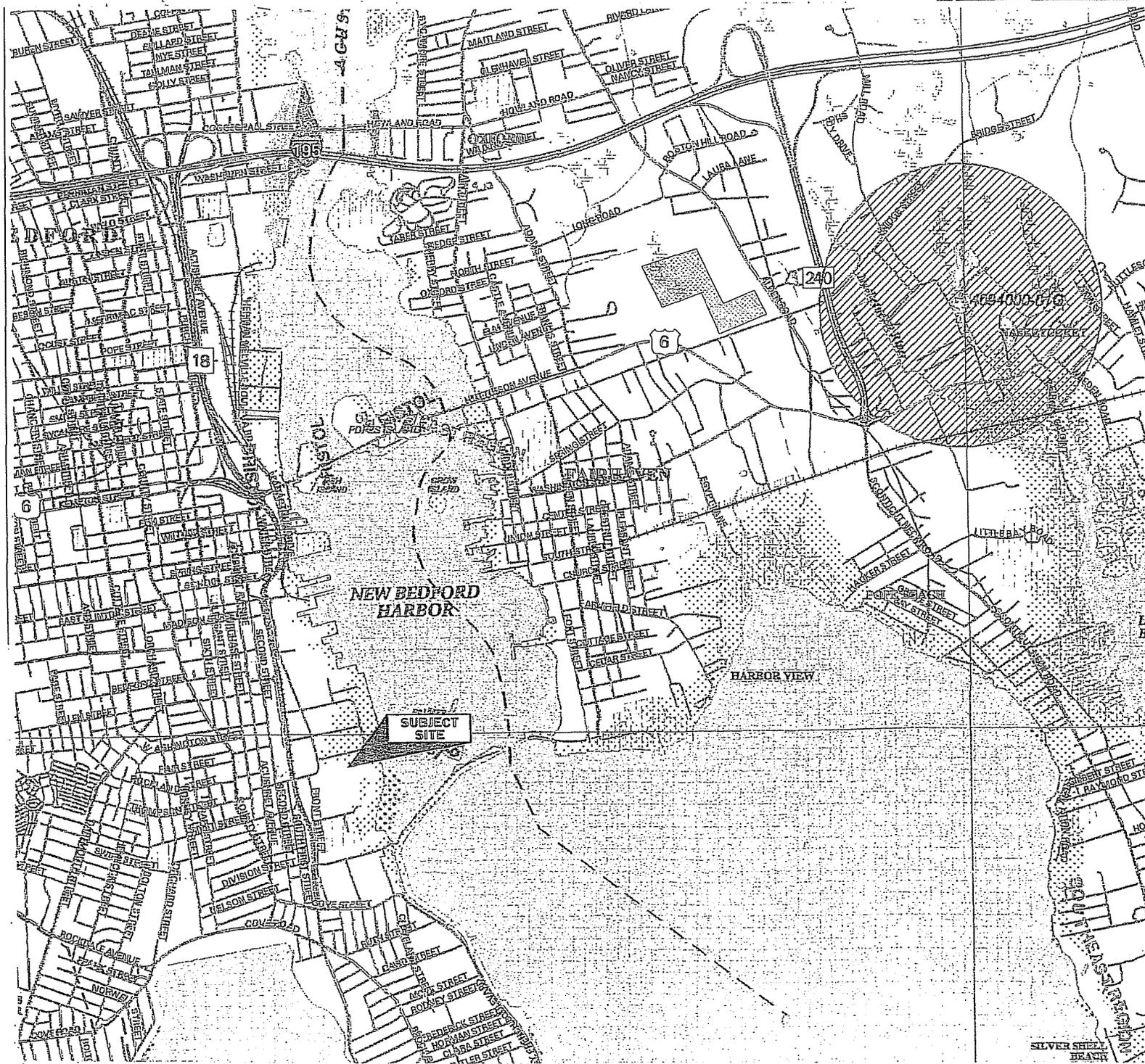
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Figure 3 - Aerial Map  
 Shuster Corporation  
 South Terminal  
 New Bedford, Massachusetts

## *List of Appendices*

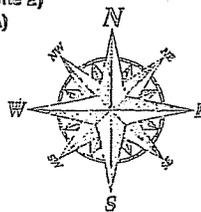
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*Appendix A – Sanborn Map Report*  
*Appendix B – Analytical Data Reports*



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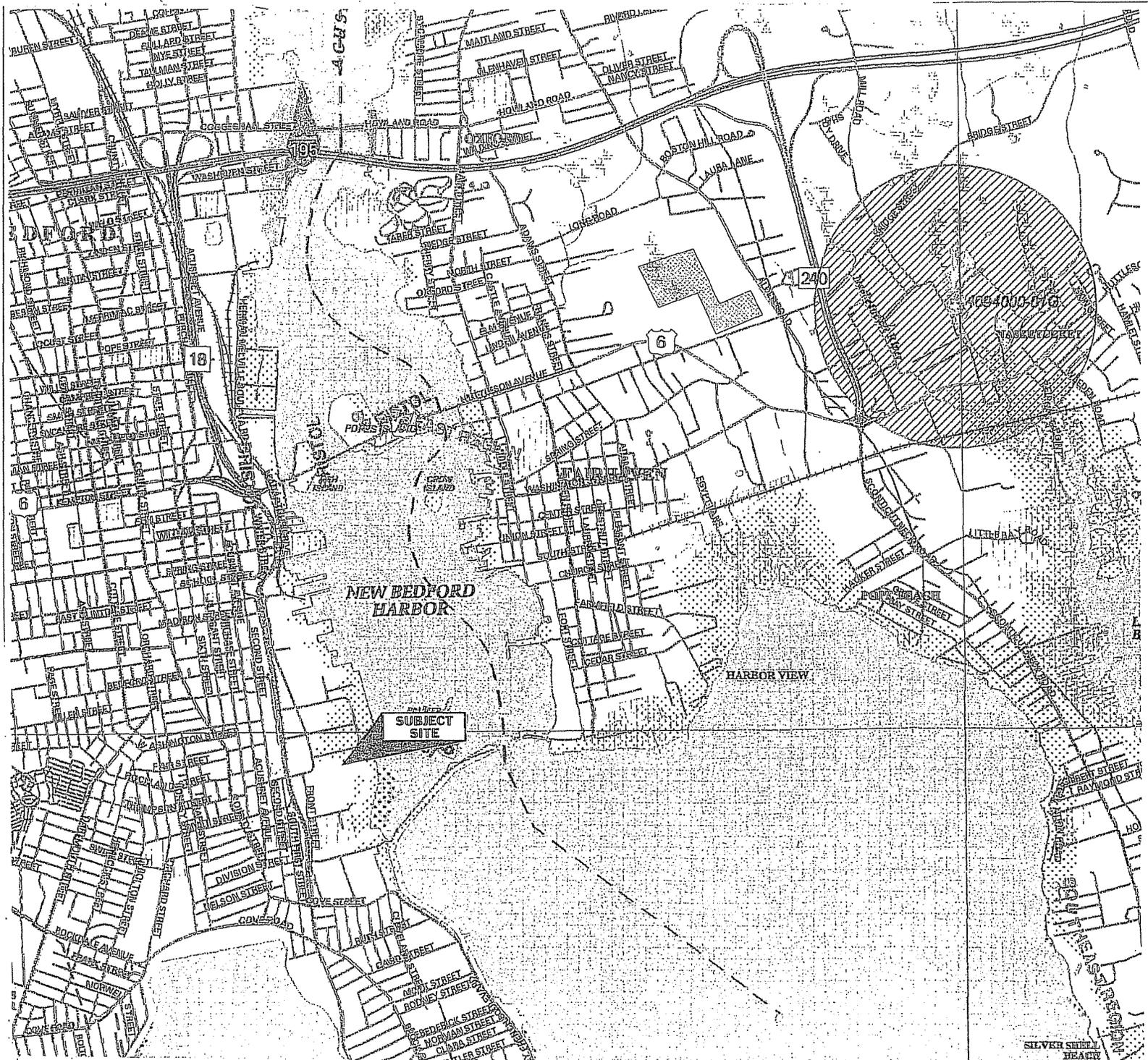
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- Public Water Supplies: Surface, Ground, Non Comm.



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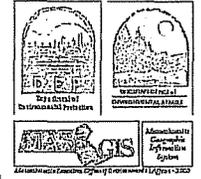
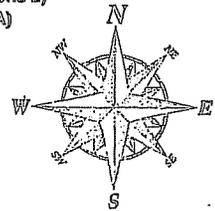
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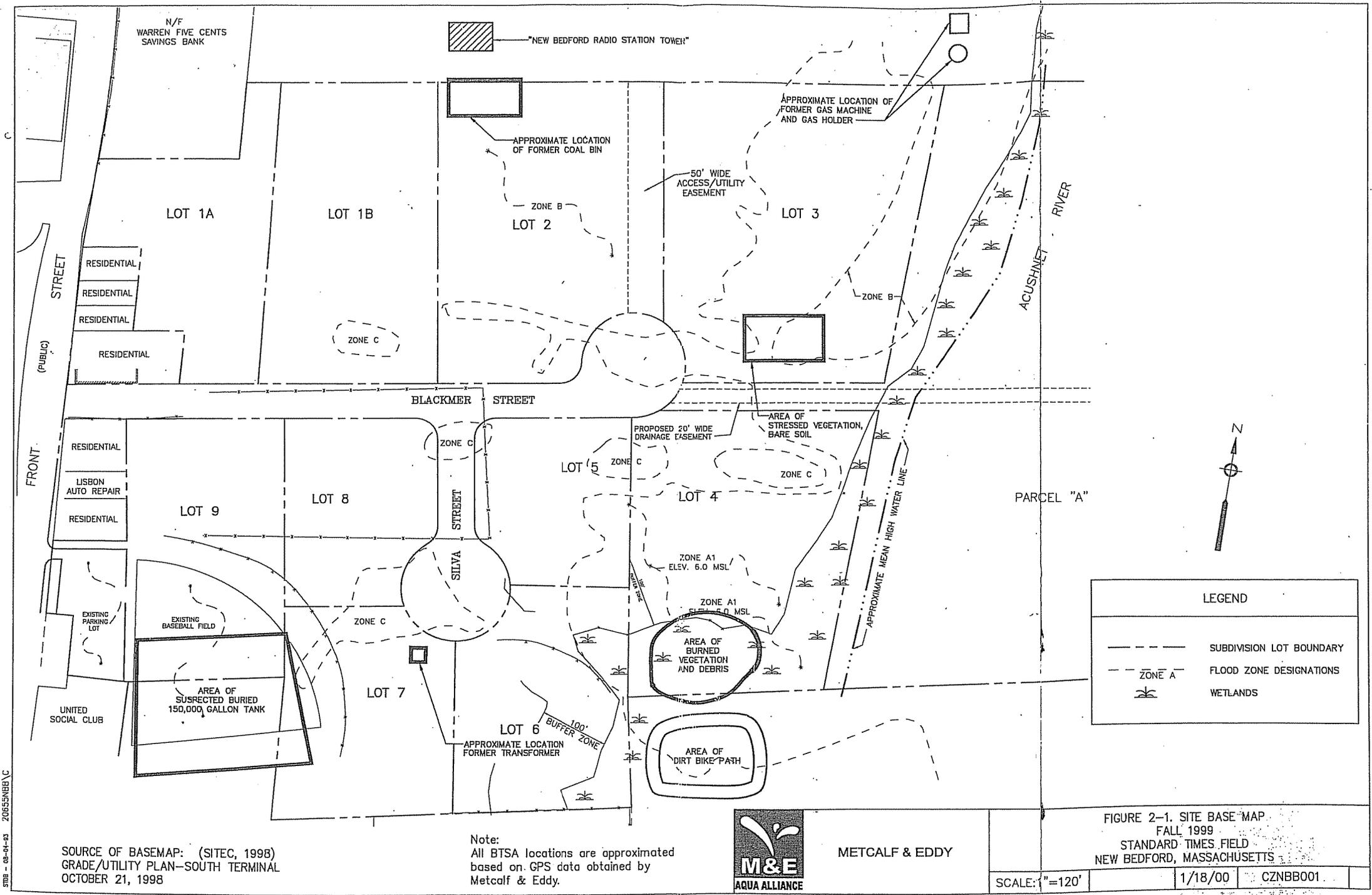


REFERENCE: MA DEP- BUREAU OF WASTE SITE CLEANUP, NEW BEDFORD, NORTH QUAD, 2006, SCALE 1: 25,000.

FIGURE 2 – MASS GIS MAP

VACANT LOT  
NEW BEDFORD, MASSACHUSETTS

SILVER SHIELD  
BRAND



LEGEND	
	SUBDIVISION LOT BOUNDARY
	FLOOD ZONE DESIGNATIONS
	WETLANDS

SMB - 02-01-03 20655NBBVC

SOURCE OF BASEMAP: (SITEC, 1998)  
 GRADE/UTILITY PLAN-SOUTH TERMINAL  
 OCTOBER 21, 1998

Note:  
 All BTSA locations are approximated  
 based on GPS data obtained by  
 Metcalf & Eddy.



METCALF & EDDY

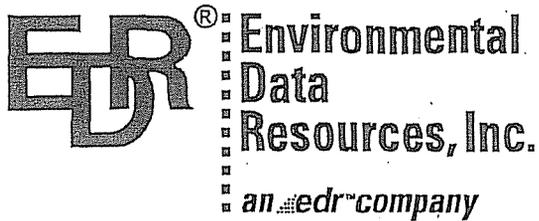
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 FALL 1999  
 STANDARD TIMES FIELD  
 NEW BEDFORD, MASSACHUSETTS



CLC Consulting Group  
 P.O. Box 9531  
 Fall River, Massachusetts 02720

Figure 3 - Aerial Map  
 Shuster Corporation  
 South Terminal  
 New Bedford, Massachusetts



"Linking Technology with Tradition"

## Sanborn™ Map Report

Ship to: Neil Thurber

Metcalf & Eddy, Inc.

30 Harvard Mill Square

Wakefield, MA 01880

1241585KJG

781-246-5200

Order Date: 4/15/1999

Completion Date: 04/16/1999

Inquiry #: 359293.2S

P.O. #: 020655-0002-001

Site Name: Standard Times Field

Address: Front Street/Blackmer Street

City/State: New Bedford, MA 02740

Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

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1893 - 1 - map  
1906 - 2 - maps  
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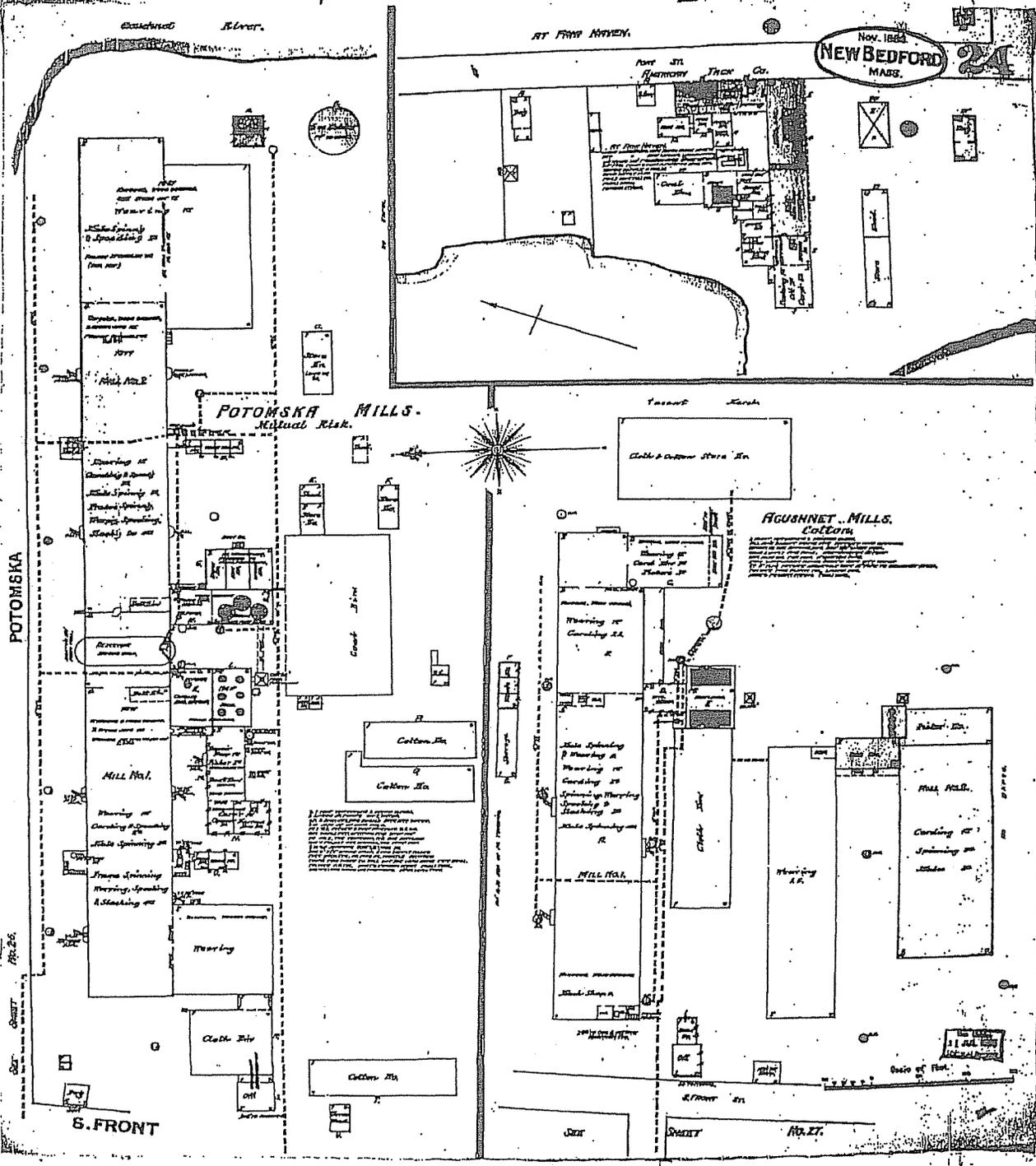
Total Maps: 16

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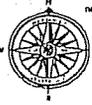
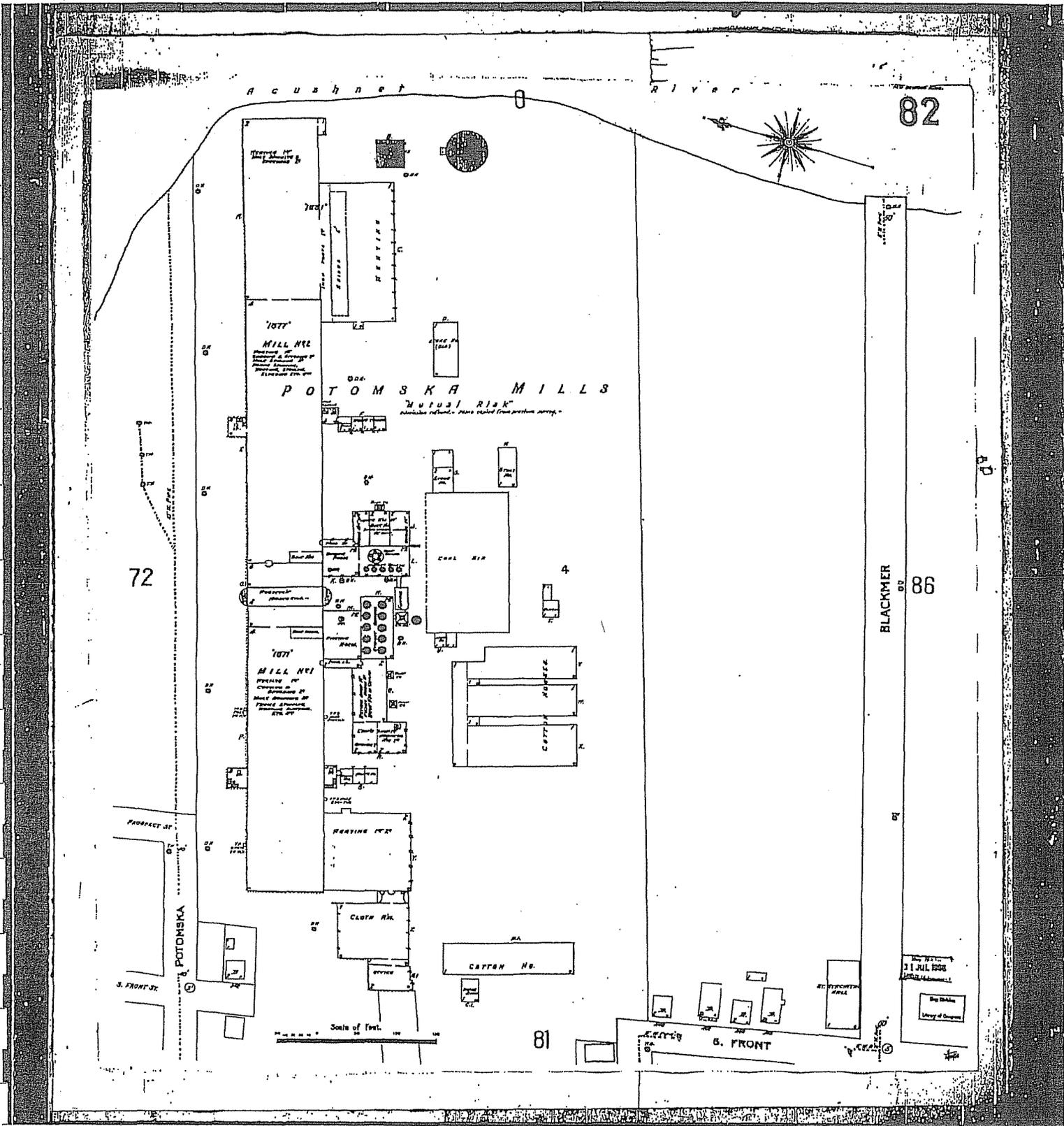
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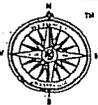
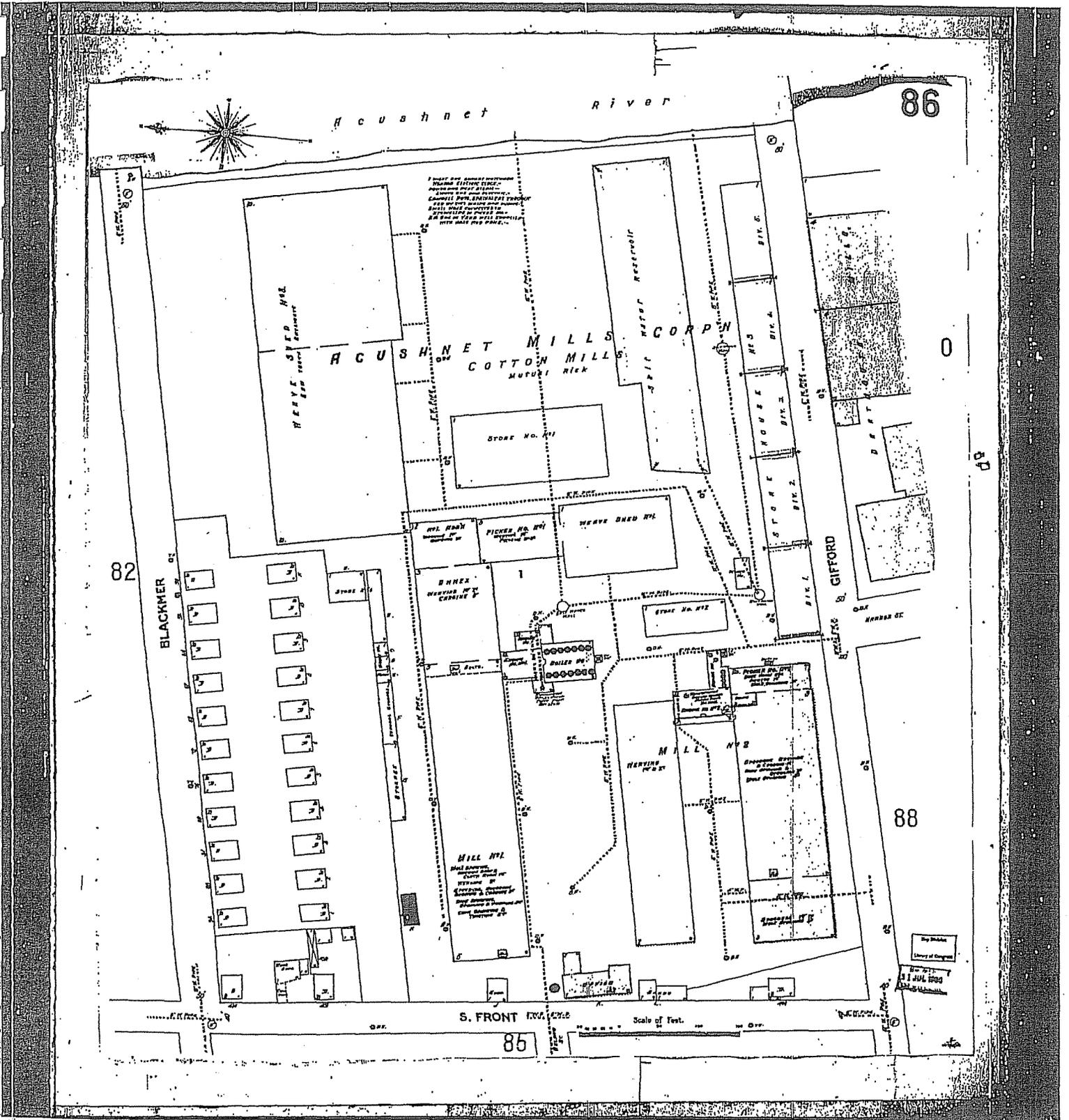


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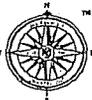
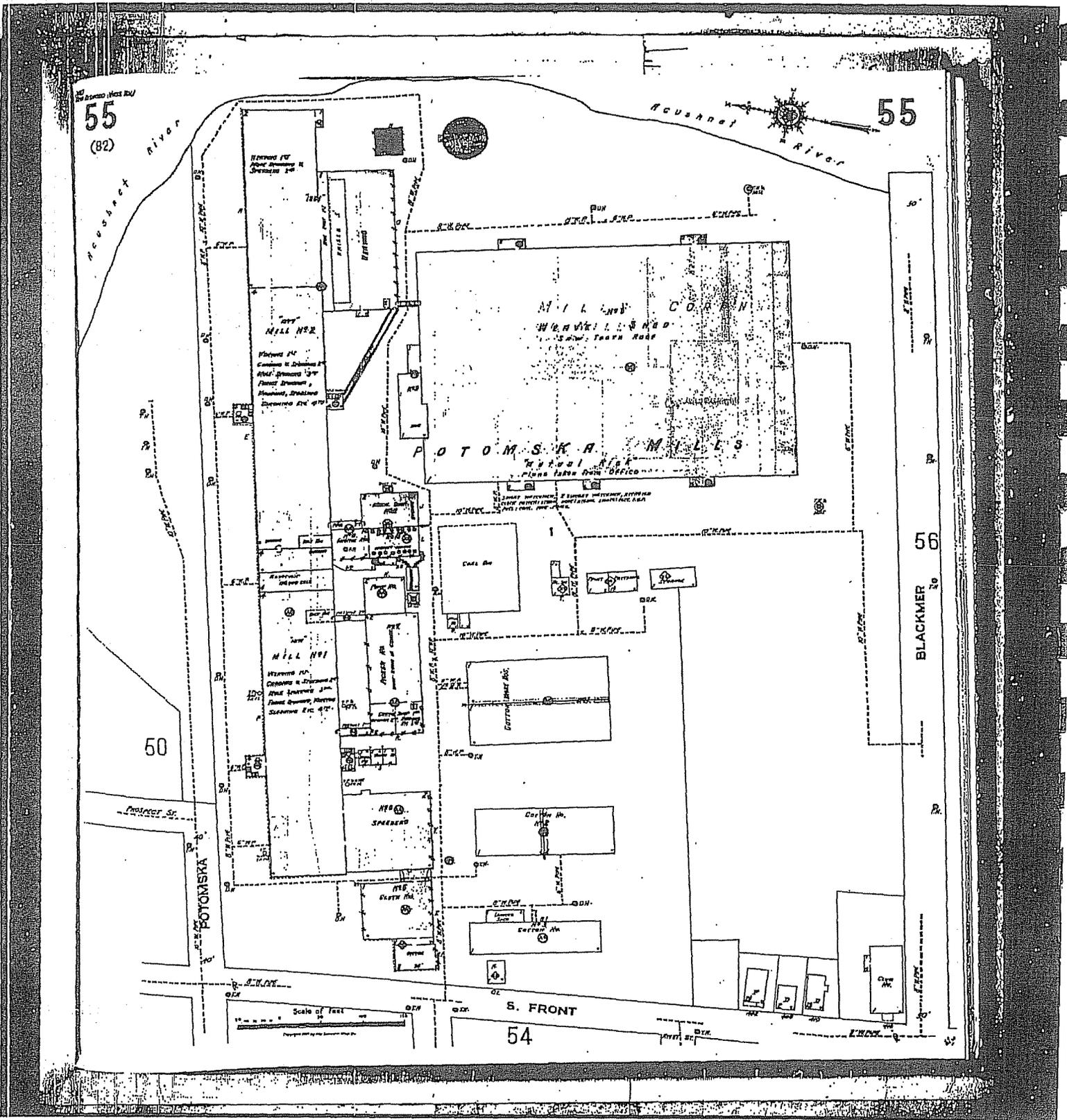


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56

56  
(86)  
NEW BEDFORD, MASS. No. 1

Acushnet River

ACUSHNET MILLS CORP.  
COTTON MILLS  
MUTUAL RISK.

HERVE'S SHED NO. 3

WEST RIVER RESERVOIR

STORGE BIKES

BLACKMER

55

BLACKMER

WATER TOWER

PICKER BLDG.

HERVE'S SHED NO. 1

61

60

S. FRONT

58

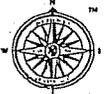
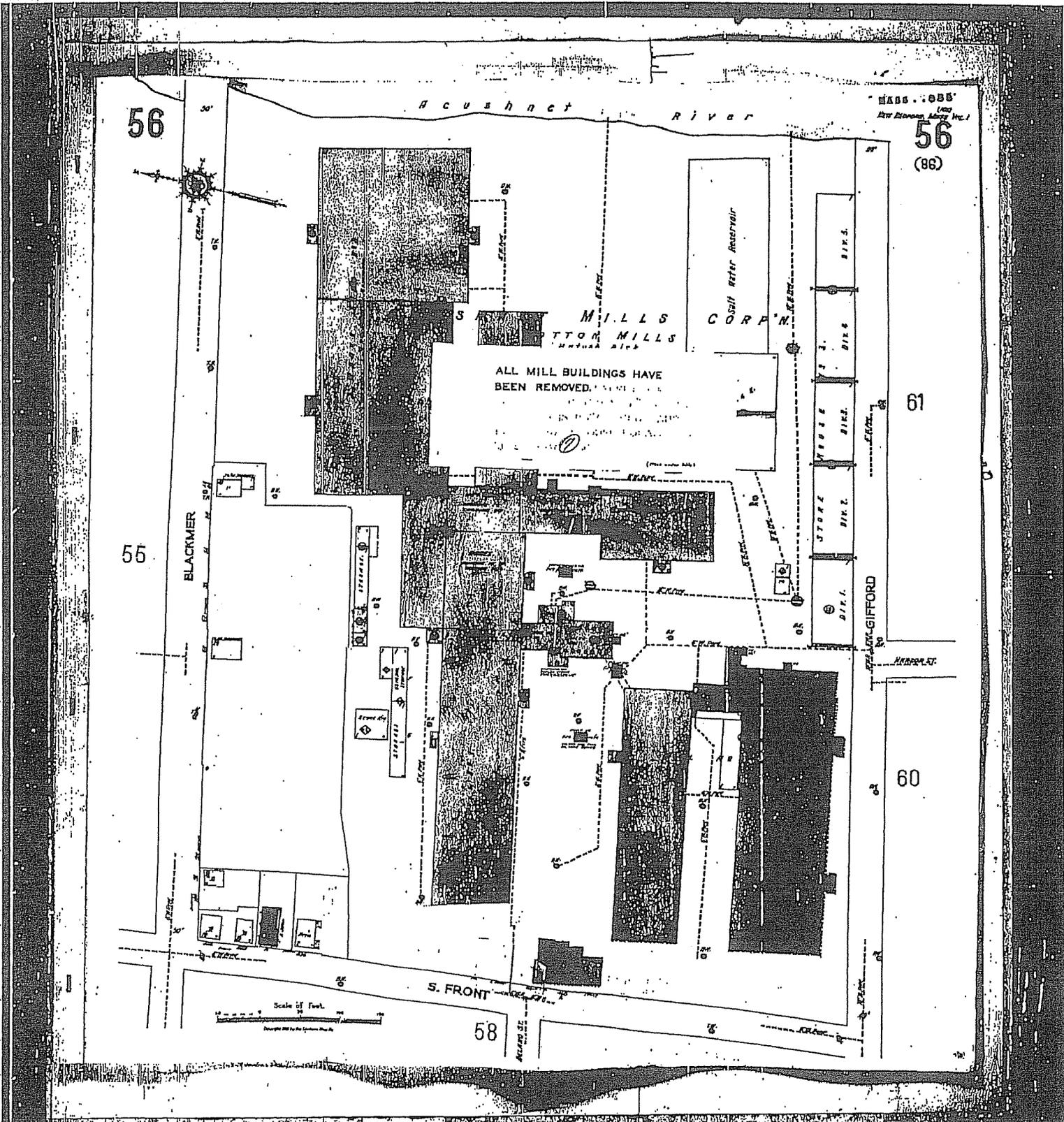


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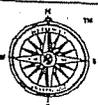
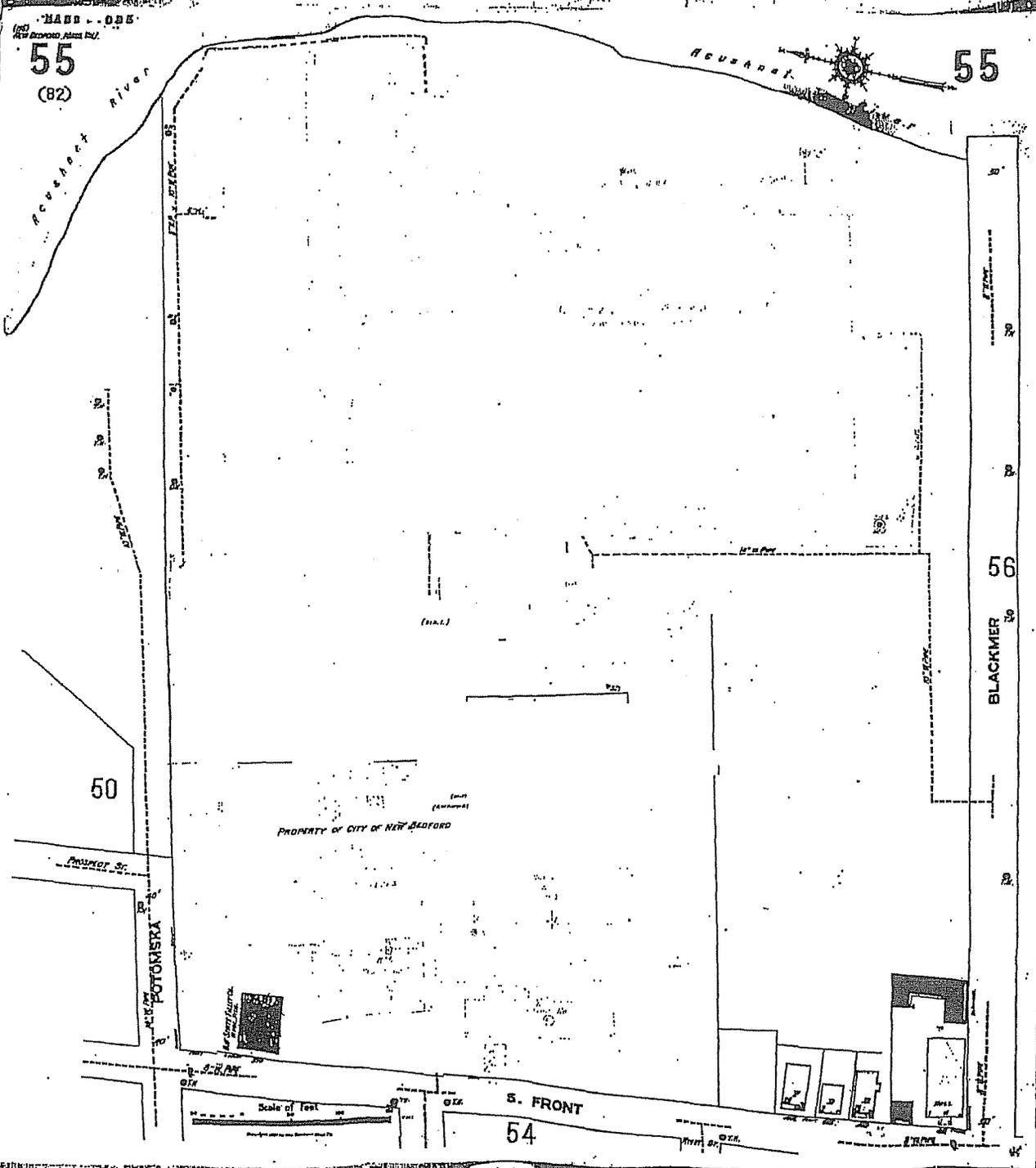


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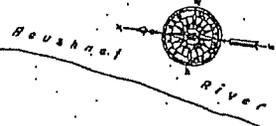
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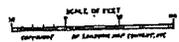
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New Beyond Area 55

ROUSHAET RIVER



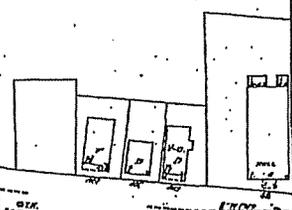
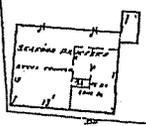
49



PROPERTY OF CITY OF NEW BEDFORD

MIC JEFFREY DR

ST. POTOMSKA



S. FRONT

54

56

BLACKMER

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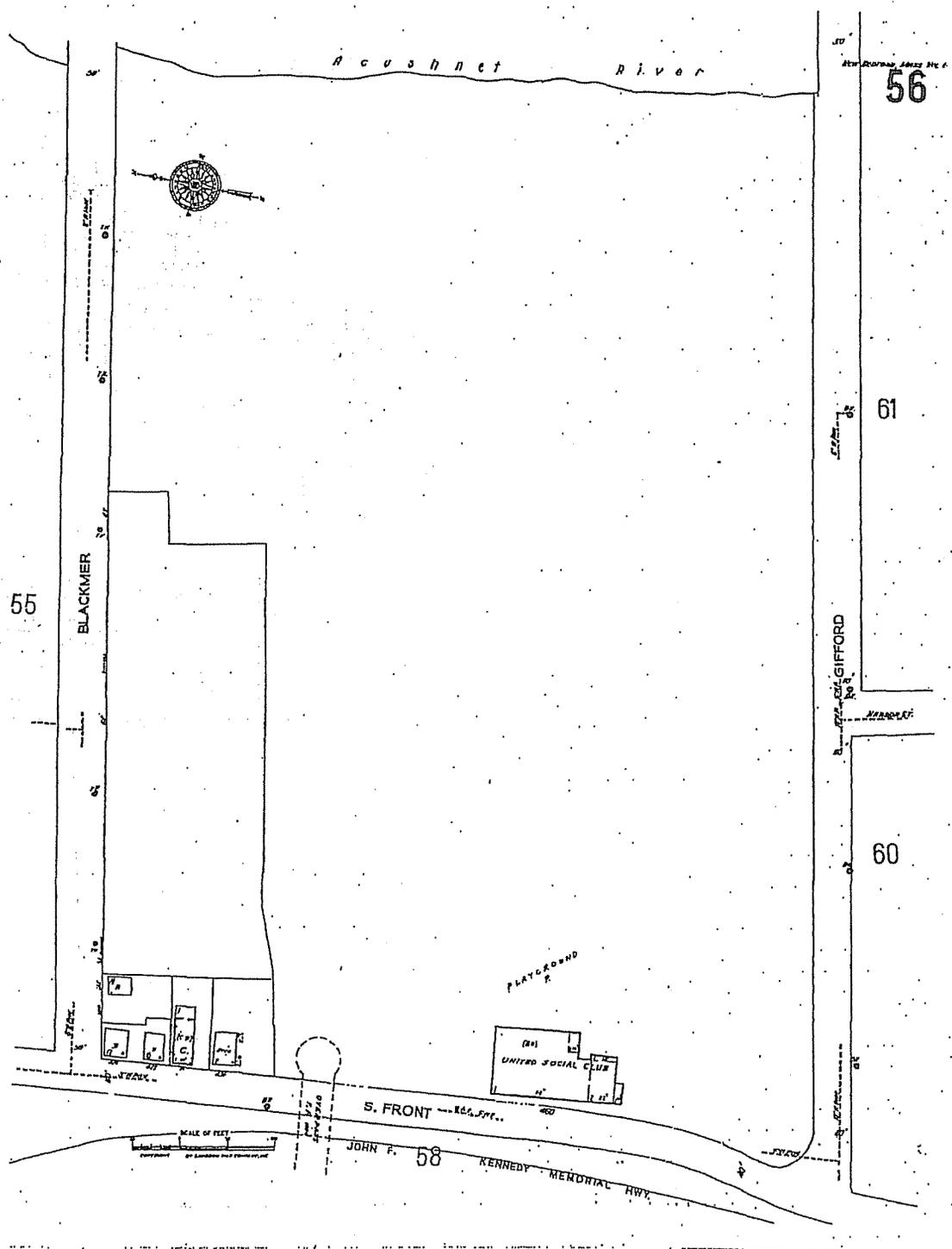


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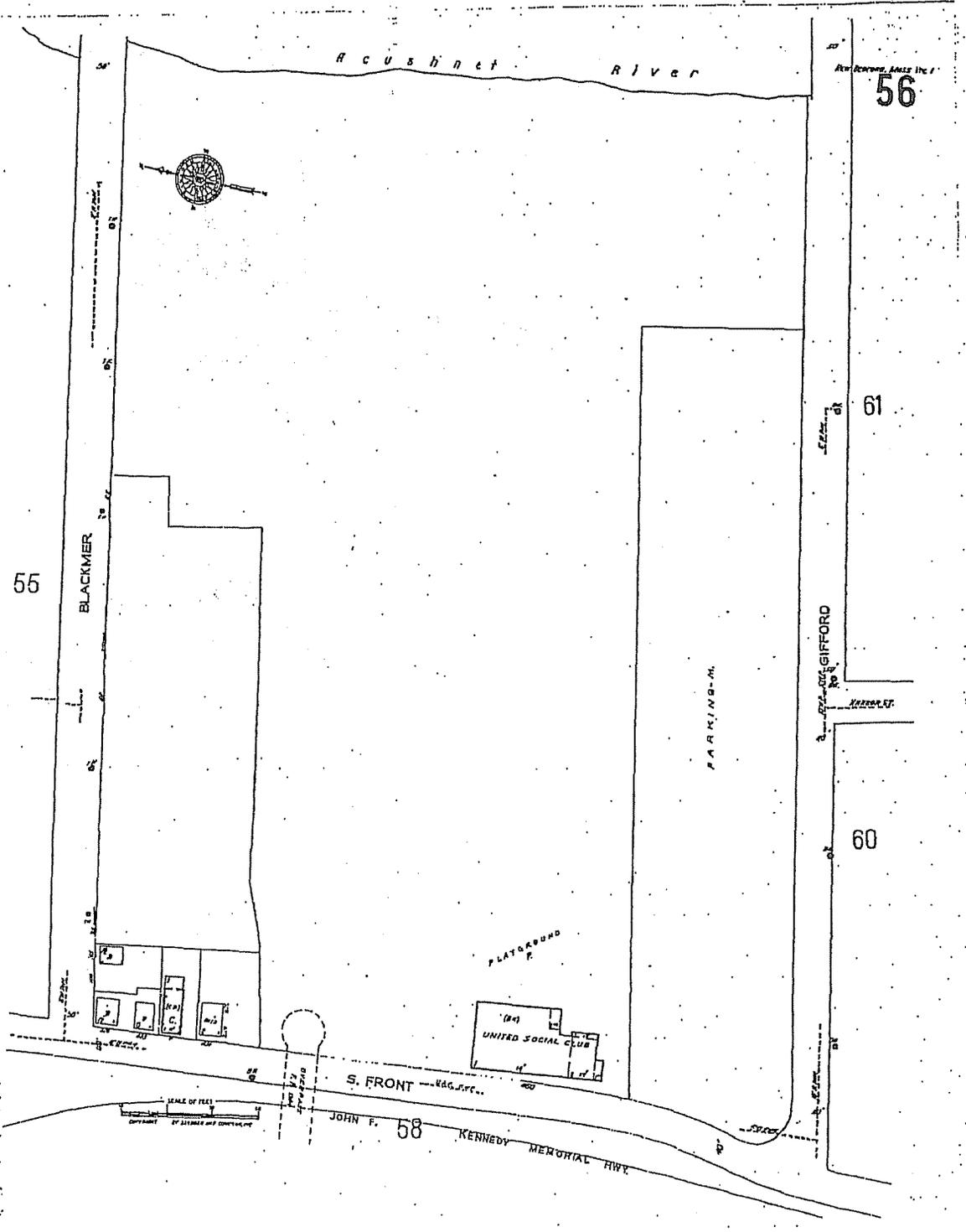


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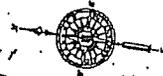
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New Bedford Area 101

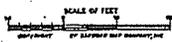
55

Acushnet River

Acushnet River



49

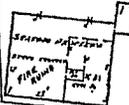


AKC JEFFREY DR.

ST. ANNE POTOMSKA

PROPERTY OF CITY OF NEW BEDFORD

25' x 25' steel hand tower



S. FRONT

54

56

BLACKMER

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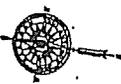
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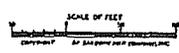
New Branch Map No. 55

Acushnet River

Acushnet River



49

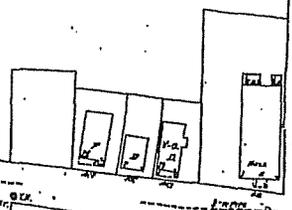


PROPERTY OF CITY OF NEW BEDFORD  
30-AM' STREE, FORM 10000

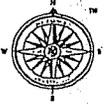
ALC ARKING DC  
BOSTONSKA

50'  
BLACKMER  
56  
50'

S. FRONT  
54



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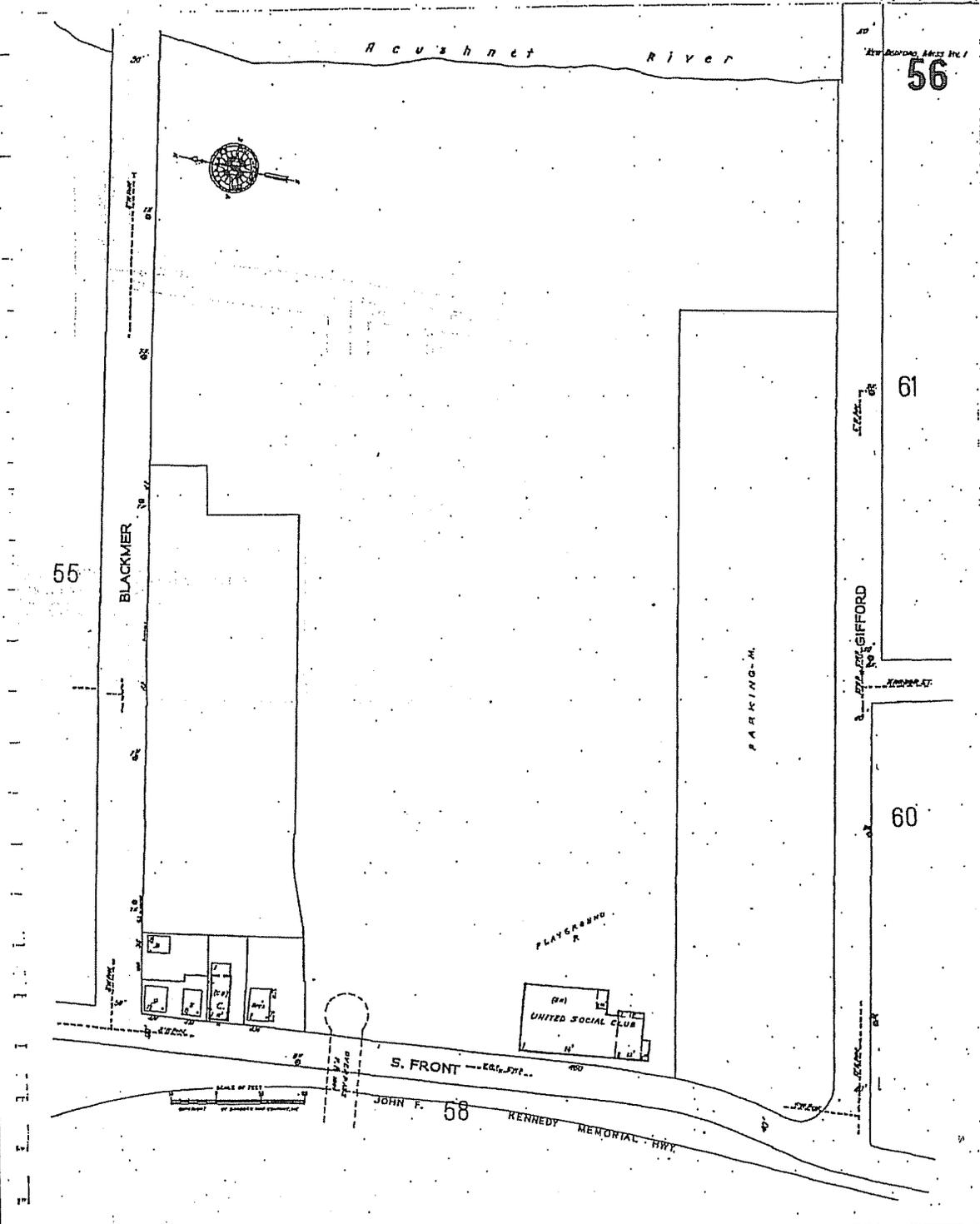


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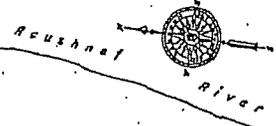
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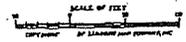
New Bedford Aerial Map  
55

Powder Mill River



Peushnet River

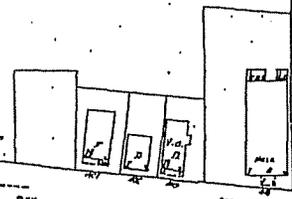
49



PROPERTY OF CITY OF NEW BEDFORD  
100' 0" 100' 0" 100' 0"

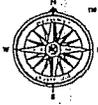
MC JEFFREY DR  
POTONISHA

30'  
BLACKMEYER ST  
56  
B.



S. FRONT  
54

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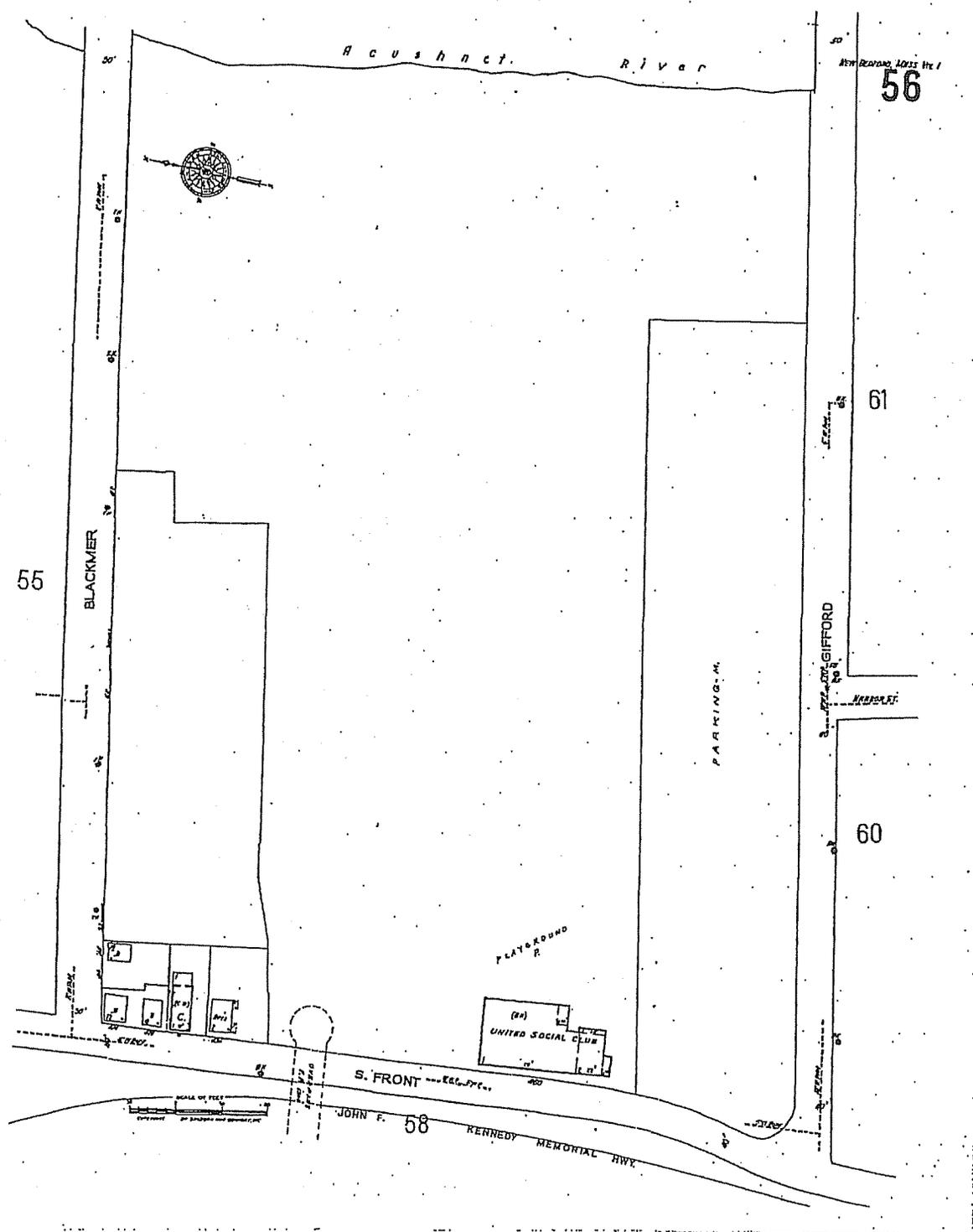


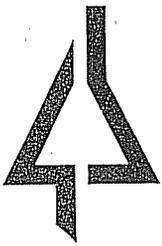
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R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

CLC Consulting Group  
Attn: Ms. Cheryl Coderre  
P.O. Box 9531  
31 Hanson Street  
Fall River, MA 02720

Date Received: 1/5/06  
Date Reported: 1/12/06  
P.O. #:  
Work Order #: 0601-00240

---

**DESCRIPTION: SHUSTER CORP (SIX SOIL SAMPLES)**

---

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015  
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

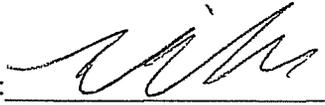
Data Reporting

enc: Chain of Custody

Data Qualifiers (if present) and R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 001

SAMPLE DESCRIPTION: B-1 0-5'

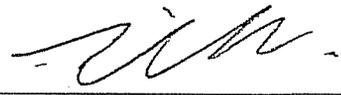
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/9/06	HD
<b>PCB</b>						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	0.17	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	15		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	76		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	93		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	15		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	95		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	99		70-130%	MADEP	1/10/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	21	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	57	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	78		mg/kg dry	MADEP	1/11/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:   
Data Reporting

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

Sample # 001  
SAMPLE DESCRIPTION: B-1 0-5'  
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	2.6	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	0.6	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	3.1	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	3.7	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	1.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	1.3	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	1.2	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	1.0	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	0.9	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	15		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	56		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	62		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	81		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	80		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.3	5.3	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	21	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.26	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	7.2	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	19	2.1	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	0.26	0.11	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<10	10	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.0	1.0	mg/kg dry	SW-846 6010	1/10/06	JNB

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

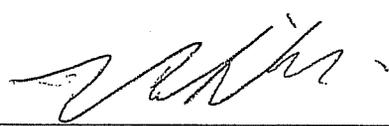
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CLC Consulting Group

Date Received: 1/5/06

Work Order #: 0601-00240

Approved by: 

Data Reporting

All QA/QC procedures required by the VPH Method were followed.

All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.

No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.

All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.

No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

Approved by:   
Data Reporting

Sample # 002  
SAMPLE DESCRIPTION: B-2 5-10'  
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<10	10	mg/kg dry	SW-846 9010A	1/9/06	HD
<b>PCB</b>						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	11		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	59		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	67		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	11		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	81		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	82		70-130%	MADEP	1/10/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	10	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	210	40	mg/kg dry	MADEP	1/11/06	NR
Total EPH	220		mg/kg dry	MADEP	1/11/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<2	2	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<2	2	mg/kg dry	MADEP	1/11/06	NR

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 002

SAMPLE DESCRIPTION: B-2 5-10'

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	2.1	2	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	17	2	mg/kg dry	MADEP	1/11/06	NR
Pyrene	19	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	11	2	mg/kg dry	MADEP	1/11/06	NR
Chrysene	8.8	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	7.6	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	9.6	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	11	2	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	7.6	2	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	6.0	2	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	11		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	68		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	64		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	80		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	83		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.3	5.3	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	19	0.27	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.27	0.27	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	6.2	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	16	2.1	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	0.16	0.11	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<1.1	1.1	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.1	1.1	mg/kg dry	SW-846 6010	1/10/06	JNB



R.I. Analytical Laboratories, Inc.  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

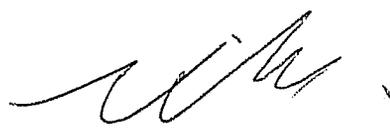
Sample # 003  
**SAMPLE DESCRIPTION:** B-3 0-5'  
**SAMPLE TYPE:** GRAB

**SAMPLE DATE/TIME:** 12/29/2005 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<10	10	mg/kg dry	SW-846 9010A	1/9/06	HD
<b>PCB</b>						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	78		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	93		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	84		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	84		70-130%	MADEP	1/10/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	10	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	28	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	38		mg/kg dry	MADEP	1/11/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

R.I. Analytical Laboratories, Inc.  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 003  
 SAMPLE DESCRIPTION: B-3 0-5'  
 SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	0.8	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	0.8	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	0.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	0.6	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	77		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	66		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	80		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	75		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.2	5.2	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	19	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.26	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	6.9	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	20	2.1	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	<0.11	0.11	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<10	10	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.6	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

Approved by:   
Data Reporting

All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the EPH Method with the  
following exception: C-range values may have been blank subtracted  
to minimize the effect of leachable plasticizers from the SPE  
cartridges.

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 004

SAMPLE DESCRIPTION: B-4 6'

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<16	16	mg/kg dry	SW-846 9010A	1/9/06	HD
<b>PCB</b>						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	61		%	SM2540 G.	1/6/06	KR
<b>SURROGATE</b>						
Tetrachloro-m-xylene (TCMX)	74		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	89		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/11/06	BNS
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	11	8.4	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	23	2.8	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	11	8.4	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	23	2.8	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<5.6	5.6	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	61		%	SM2540 G.	1/6/06	KR
<b>SURROGATE</b>						
2,5-Dibromotoluene(PID)	88		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	86		70-130%	MADEP	1/10/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	<30		mg/kg dry	MADEP	1/11/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**



Approved by: \_\_\_\_\_  
 Data Reporting

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Sample # 004  
**SAMPLE DESCRIPTION:** B-4 6'  
**SAMPLE TYPE:** GRAB  
**SAMPLE DATE/TIME:** 12/29/2005 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	61		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	46		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	56		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	81		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	83		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<12	12	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	50	0.62	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.62	0.62	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	21	3.7	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	91	5.0	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	<0.24	0.24	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<25	25	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<3.7	3.7	mg/kg dry	SW-846 6010	1/10/06	JNB

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Sample # 004  
 SAMPLE DESCRIPTION: B-4 6'  
 SAMPLE TYPE: GRAB

R.I. Analytical Laboratories, Inc:

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CLC Consulting Group

Date Received: 1/5/06

Work Order #: 0601-00240

Approved by: \_\_\_\_\_

Data Reporting

All QA/QC procedures required by the VPH Method were followed.

All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.

No significant modifications were made to the VPH Method.

VPH: Increased detection limits due to high moisture content in sample.

All QA/QC procedures required by the EPH Method were followed.

All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.

No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

Substance	Concentration	Units
PARATHION	0.02	mg/kg
azoxystrobin	0.4	mg/kg
Azinphos methyl	0.4	mg/kg
Chlorpyrifos	0.4	mg/kg
Chlorpyrifos	0.4	mg/kg
cyfluthrin	0.1	mg/kg
cyfluthrin	0.4	mg/kg
cyfluthrin	0.4	mg/kg

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Date Received: 1/5/06

Work Order #: 0601-00240

All QA/QC procedures required by the VPH Method were followed.

All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.

No significant modifications were made to the VPH Method.

## R.I. Analytical Laboratories, Inc.

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CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

Approved by:   
Data Reporting

Sample # 005

SAMPLE DESCRIPTION: B-5 0-4'

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<0.1	11	mg/kg dry	SW-846 9010A	1/9/06	HD
<b>PCB</b>						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	0.12	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	79		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	110		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	81		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	82		70-130%	MADEP	1/10/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	11	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	53	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	64		mg/kg dry	MADEP	1/11/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 005

SAMPLE DESCRIPTION: B-5 0-4'

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	1.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	2.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	3.3	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	1.7	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	2.7	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	1.2	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	2.1	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	1.7	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	74		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	66		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	62		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	71		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.6	5.6	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	22	0.28	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.28	0.28	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	8.5	1.7	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	41	2.2	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	0.16	0.12	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<11	11	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.7	1.7	mg/kg dry	SW-846 6010	1/10/06	JNB

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

Approved by: \_\_\_\_\_



Data Reporting

All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the EPH Method with the  
following exception: C-range values may have been blank subtracted  
to minimize the effect of leachable plasticizers from the SPE  
cartridges.

CERTIFICATE OF ANALYSIS

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 006  
 SAMPLE DESCRIPTION: B-6 8'  
 SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<12	12	mg/kg dry	SW-846 9010A	1/9/06	HD
<b>PCB</b>						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	76		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	69		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	83		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<25	25	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	190	8.3	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<2	2	mg/kg dry	MADEP	1/10/06	RGM
Benzene	6	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<2	2	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	23	2	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	20	2	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	14	2	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	89	2	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<25	25	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	27	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	110	17	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	76		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	90		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	92		70-130%	MADEP	1/10/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	13	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	40	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	53		mg/kg dry	MADEP	1/11/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	14	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/5/06  
 Work Order #: 0601-00240

Approved by:   
 Data Reporting

Sample # 006  
 SAMPLE DESCRIPTION: B-6 8'  
 SAMPLE TYPE: GRAB  
 SAMPLE DATE/TIME: 12/29/2005 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	1.1	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	0.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	76		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	47		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	41		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	81		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	82		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<20	20	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	79	1.0	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<1.0	1.0	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	32	6.2	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	160	8.2	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	<0.38	0.38	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<41	41	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<6.2	6.2	mg/kg dry	SW-846 6010	1/10/06	JNB

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Date Received: 1/5/06  
Work Order #: 0601-00240

Approved by: \_\_\_\_\_

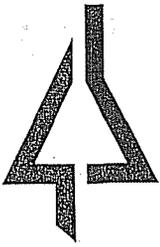


Data Reporting

All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

VPH: Increased detection limits due to high moisture content in  
sample.

All QA/QC procedures required by the EPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the EPH Method with the  
following exception: C-range values may have been blank subtracted  
to minimize the effect of leachable plasticizers from the SPE  
cartridges.



R.I. Analytical

Specialists in Environmental Services

## Case Narrative

Date: 01/25/05

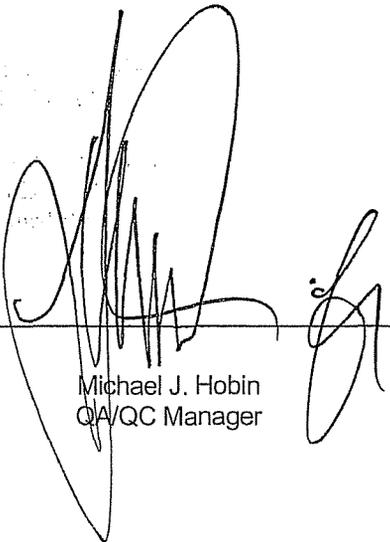
CLC Consulting Group  
Attn: Ms. Cheryl Coderre  
P.O. Box 9531  
31 Hanson Street  
Fall River, MA 02720

Project: SHUSTER CORP

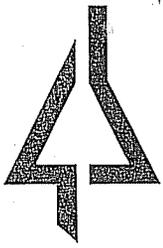
RIAL WO# 0601-00240

The following exceptions were noted for this Work Order:

Most of the PCB Method 8082 LCS/LCSD Relative Percent Differences (RPDs) were within the recommended acceptance limit of  $\leq 20\%$  except for; Aroclor 1254 (33%).



Michael J. Hobin  
QA/QC Manager



# R.I. Analytical

Specialists in Environmental Services

Customer Name : CLC Consulting Group

W.O. Number 0601-00240

MADEP MCP Response Action Analytical Report Certification Form	
Laboratory Name: R.I. Analytical Laboratories	Work Order No: 0601-00240
Project / Location: SHUSTER CORP (SIX SOIL SAMPLES)	MADEP RTN 1:
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 0601-00240-001 thru -006	

Sample Matrices:  Groundwater  Soil / Sediment  Drinking Water  Other :

MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
As specified in MADEP Compendium of Analytical Methods (check all that apply)	8270C ( )	8081A ( )	VPH (X)	6020 ( )	9014M 2 ( )
	8082 (X)	8021B ( )	EPH (X)	7000 S 3 ( )	OTHER (X)
1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series List individual method and analyte					

**An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status**

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**A response to questions E and F below is required for "Presumptive Certainty" status**

E	Were all QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Mike Hobin, QA/QC Manager

Date:



**RI Analytical Laboratories, Inc.  
QA/QC Report**

**Client:** CLC CONSULTING GROUP

**W.O. #:** 0601-00240

**Date:** 01/23/2006

**-Method Blank Results-**

Parameter	Units	Results	Date Analyzed
Cyanide	ug/l	<10	01/09/2006

**-EPH LCS/LCS Duplicate Results-**

Parameter	Units	Spike Conc.	LCS Detected Conc.	% Rec.	LCS dup. Detected Conc.	% Rec.	RPD	Date Analyzed
Cyanide	ug/l	10.0	9.2	92	8.7	87	6	01/09/2006

**-Replicate Sample Results-**

Parameter	Units	Sample #	Rep 1 Conc.	Rep 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
Cyanide	ug/l	00240-2	<10	<10	<10	<10	0	01/09/06

**-Matrix Spike Results-**

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Cyanide	ug/l	00240-2	<10	98	87	89	01/09/2006

PCB ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL

CLIENT: CLC CONSULTING GROUP

Date: 1/9/2006

W.O #: 0601-00240

COMPOUND

CONCENTRATION UNITS:  
mg/kg dry

Aroclor-1016		<0.1
Aroclor-1221		<0.1
Aroclor-1232		<0.1
Aroclor-1242		<0.1
Aroclor-1248		<0.1
Aroclor-1254		<0.1
Aroclor-1260		<0.1
Tetrachloro-m-xylene (TCMX)	(30-150%)	84
Decachlorobiphenyl	(30-150%)	108

PCB ORGANICS LCS/LCS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CLC CONSULTING GROUP

W.O. #: 0601-00240

COMPOUND	SPIKE CONC. mg/kg dry	LCS CONC. mg/kg dry	LCS % REC.	LCS DUP. CONC. mg/kg dry	LCS DUP. % REC.	RPD
Aroclor-1254	0.33	0.23	70	0.32	97	33
Tetrachloro-m-xylene (TCMX) (30-150%)			33		77	
Decachlorobiphenyl (30-150%)			67		84	

**RI Analytical Laboratories, Inc.  
QA/QC Report**

**Client:** CLC Consulting Group  
**W.O.#:** 0601-00240  
**Date:** 01/23/2006

**-VPH Method Blank Results-**

Parameter	Units	Results	Date Analyzed
Unadj C5-C8 Aliphatics(FID)	mg/kg dry	<3.0	01/10/2006
Unadj C9-C12 Aliphatics(FID)	mg/kg dry	<1.0	01/10/2006
Methyl-tert-butylether	mg/kg dry	<0.3	01/10/2006
Benzene	mg/kg dry	<0.3	01/10/2006
Toluene	mg/kg dry	<0.3	01/10/2006
Ethylbenzene	mg/kg dry	<0.3	01/10/2006
m,p-Xylene	mg/kg dry	<0.3	01/10/2006
o-Xylene	mg/kg dry	<0.3	01/10/2006
Naphthalene	mg/kg dry	<0.3	01/10/2006
adj C5-C8 Aliphatics(FID)	mg/kg dry	<3.0	01/10/2006
adj C9-C12 Aliphatics(FID)	mg/kg dry	<1.0	01/10/2006
C9-C10 Aromatics(PID)	mg/kg dry	<2.0	01/10/2006
<b>SURROGATE</b>			
2,5-Dibromotoluene(PID)	%	78	01/10/2006
2,5-Dibromotoluene(FID)	%	77	01/10/2006

**-VPH LCS Results-**

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Methyl-tert-butylether	mg/kg dry	15.0	14.1	94	01/10/2006
Benzene	mg/kg dry	5.0	4.8	96	01/10/2006
Toluene	mg/kg dry	15.0	14.6	97	01/10/2006
Ethylbenzene	mg/kg dry	5.0	4.9	98	01/10/2006
m,p-Xylene	mg/kg dry	20.0	20.1	100	01/10/2006
o-Xylene	mg/kg dry	10.0	10.2	102	01/10/2006
Naphthalene	mg/kg dry	10.0	12.4	124	01/10/2006
<b>SURROGATE</b>					
2,5-Dibromotoluene(PID)	%			93	01/10/2006
2,5-Dibromotoluene(FID)	%			78	01/10/2006

**RI Analytical Laboratories, Inc.**  
**QA/QC Report**

**Client:** CLC Consulting Group  
**W.O.#:** 0601-00240  
**Date:** 01/23/2006

**-VPH LCS Duplicate Results-**

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	RPD	Date Analyzed
Methyl-tert-butylether	mg/kg dry	15.0	14.3	95	1	01/10/2006
Benzene	mg/kg dry	5.0	4.8	96	0	01/10/2006
Toluene	mg/kg dry	15.0	14.3	95	2	01/10/2006
Ethylbenzene	mg/kg dry	5.0	4.8	96	2	01/10/2006
m,p-Xylene	mg/kg dry	20.0	19.2	96	4	01/10/2006
o-Xylene	mg/kg dry	10.0	9.5	95	7	01/10/2006
Naphthalene	mg/kg dry	10.0	11.2	112	10	01/10/2006
SURROGATE						
2,5-Dibromotoluene(PID)	%			93		01/10/2006
2,5-Dibromotoluene(FID)	%			95		01/10/2006

RI Analytical Laboratories, Inc.  
QA/QC Report

**Client:** CLC Consulting Group  
**W.O.#:** 0601-00240  
**Date:** 01/23/2006

EPH METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL

Client: CLC CONSULTING GROUP

Date: 1/23/2006

W.O.#: 0601-00240

CONCENTRATION UNITS:

COMPOUND

mg/kg dry

C9-C18 Aliphatics (FID)	<10
C19-C36 Aliphatics (FID)	<10
C11-C22 Aromatics (FID)	<10
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
Acenaphthylene	<0.4
Acenaphthene	<0.4
Fluorene	<0.4
Phenanthrene	<0.4
Anthracene	<0.4
Fluoranthene	<0.4
Pyrene	<0.4
Benzo(a)anthracene	<0.4
Chrysene	<0.4
Benzo(b)fluoranthene	<0.4
Benzo(k)fluoranthene	<0.4
Benzo(a)pyrene	<0.4
Indeno(1,2,3-cd)pyrene	<0.4
Dibenzo(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.4
EXTRACTION SURROGATE (40-140%)	
Chloro-octadecane	77
Ortho-terphenyl	80
FRACTIONATION SURROGATE (40-140%)	
2-Fluorobiphenyl	81
2-Bromonaphthalene	82

EPH LCS/LCS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CLC CONSULTING GROUP

Date: 1/23/2006

W.O. # 0601-00240

COMPOUND	SPIKE	LCS	LCS DUP.		RPD
	CONC. mg/kg dry	CONC. mg/kg dry	LCS % REC.	CONC. mg/kg dry LCS DUP. % REC.	
C9-C18 Aliphatics (FID)	20	13	65	13 65	0
C19-C36 Aliphatics (FID)	27	20	74	21 78	5
C11-C22 Aromatics (FID)	57	38	67	43 75	12
Naphthalene	3.3	2.2	67	2.5 76	4
2-Methylnaphthalene	3.3	2.2	67	2.5 76	13
Acenaphthylene	3.3	2.3	70	2.6 79	12
Acenaphthene	3.3	2.3	70	2.5 76	8
Fluorene	3.3	2.4	73	2.6 79	8
Phenanthrene	3.3	2.5	76	2.7 82	8
Anthracene	3.3	2.6	79	2.9 88	11
Fluoranthene	3.3	2.7	82	2.9 88	7
Pyrene	3.3	2.7	82	2.9 88	7
Benzo(a)anthracene	3.3	2.8	85	3.0 91	7
Chrysene	3.3	2.8	85	3.0 91	7
Benzo(b)fluoranthene	3.3	2.9	88	3.1 94	7
Benzo(k)fluoranthene	3.3	2.8	85	3.0 91	7
Benzo(a)pyrene	3.3	2.8	85	3.0 91	7
Indeno(1,2,3-cd)pyrene	3.3	2.8	85	3.4 103	19
Dibenzo(a,h)anthracene	3.3	2.7	82	2.6 79	4
Benzo(g,h,i)perylene	3.3	2.7	82	2.9 88	7
EXTRACTION SURROGATE (40-140%)					
Chloro-octadecane		82		73	
Ortho-terphenyl		76		82	
FRACTIONATION SURROGATE (40-140%)					
2-Fluorobiphenyl		83		83	
2-Bromonaphthalene		70		82	

**RI Analytical Laboratories, Inc.**  
**QA/QC Report**

**Client:** CLC Consulting Group  
**W.O. #:** 0601-00240  
**Date:** 01/23/2006

**-Method Blank Results-**

Parameter	Units	Results	Date Analyzed
Arsenic	mg/kg dry	<4.9	1/10/2006
Barium	mg/kg dry	<0.25	1/10/2006
Cadmium	mg/kg dry	<0.25	1/10/2006
Chromium	mg/kg dry	<1.5	1/10/2006
Lead	mg/kg dry	<2.0	1/10/2006
Selenium	mg/kg dry	<9.8	1/10/2006
Silver	mg/kg dry	<0.98	1/10/2006
Mercury	mg/kg dry	<0.10	1/9/2006

**-LCS-**

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Arsenic	mg/kg dry	49	45	92	1/10/2006
Barium	mg/kg dry	49	48	98	1/10/2006
Cadmium	mg/kg dry	49	43	88	1/10/2006
Chromium	mg/kg dry	49	49	100	1/10/2006
Lead	mg/kg dry	49	47	96	1/10/2006
Selenium	mg/kg dry	49	42	86	1/10/2006
Silver	mg/kg dry	49	46	94	1/10/2006
Mercury	mg/kg dry	0.36	0.39	108	1/9/2006

**-LCS dup-**

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Arsenic	mg/kg dry	49	44	90	1/10/2006
Barium	mg/kg dry	49	49	100	1/10/2006
Cadmium	mg/kg dry	49	42	86	1/10/2006
Chromium	mg/kg dry	49	48	98	1/10/2006
Lead	mg/kg dry	49	47	96	1/10/2006
Selenium	mg/kg dry	49	41	84	1/10/2006
Silver	mg/kg dry	49	46	94	1/10/2006
Mercury	mg/kg dry	0.36	0.42	117	1/9/2006

# CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue  
Warwick, RI 02888  
Tel: 800-937-2580  
Fax: 401-738-1970

131 Coolidge St, Bldg. 2  
Hudson, MA 01749  
Tel: 888-228-3334  
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification		Grab or Composite	# of Containers & Type <sup>T</sup>	Preservation Code <sup>P</sup>	Matrix Code <sup>M</sup>	EPH <sup>W</sup> PAH <sup>S</sup>	8 RCRA Metals	Cyanide	PCBs	VPH w/targets								
12-29-05	11:00	B-1	0-5'	G	2-G NP	S	S	X	X	X	X									
	11:00	B-1	0-5'	G	1-V M	S	S					X								
	11:30	B-2	5-10'	G	2-G NP	S	S	X	X	X	X									
	11:30	B-2	5-10'	G	1-V M	S	S					X								
	12:00	B-3	0-5'	G	2-G NP	S	S	X	X	X	X									
	12:00	B-3	0-5'	G	1-V M	S	S					X								
	12:30	B-4	6'	G	2-G NP	S	S	X	X	X	X									
	12:30	B-4	6'	G	1-V M	S	S					X								
	1:00	B-5	0-4'	G	2-G NP	S	S	X	X	X	X									
	1:00	B-5	0-4'	G	1-V M	S	S					X								
	1:30	B-6	8'	G	2-G NP	S	S	X	X	X	X									
	1:30	B-6	8'	G	1-V M	S	S					X								

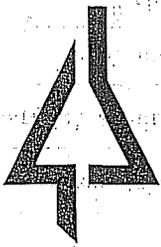
Client Information		Project Information	
Company Name: <u>CLC Consulting Group</u>	Address: <u>P.O. Box 9531</u>	Project Name: <u>Shuster Corp.</u>	P.O. Number: _____
City / State / Zip: <u>Fall River MA 02720</u>	Telephone: <u>508.353.1318</u>	Report To: <u>CLC</u>	Project Number: _____
Contact Person: <u>Cheryl L. Coderre</u>	Fax: <u>508.674.4849</u>	Sampled by: <u>CLC</u>	Phone: _____
		Quote No: _____	Fax: _____
			Email address: <u>clcconsultinggrp@aol</u>

Relinquished By	Date	Time	Received By	Date	Time
<u>Cheryl L. Coderre</u>	<u>01-04-05</u>	<u>5:00am</u>	<u>D. DeFrancesco</u>	<u>1-4-05</u>	<u>1430</u>
<u>D. DeFrancesco</u>	<u>1-5-06</u>	<u>12:00</u>	<u>Kelli R. Ray</u>	<u>1-5-06</u>	<u>1700</u>

Turn Around Time	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> EMAIL Report
5 Business days. Possible surcharge.	
Rush _____ (business days)	

Project Comments	
Circle if applicable: GW-1, GW-2, GW-3, <u>(S-1)</u> , S-2, S-3	MCP Data Enhancement QC Package? <u>(Yes)</u> No

Lab Use Only	
<input checked="" type="checkbox"/> Sample Pick Up Only	<input type="checkbox"/> RIAI sampled; attach field hours
<input checked="" type="checkbox"/> Shipped on ice	
Workorder No: <u>0601-00240</u>	



R.I. Analytical

Specialists in Environmental Services

**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Attn: Ms. Cheryl Coderre  
P.O. Box 9531  
31 Hanson Street  
Fall River, MA 02720

**Date Received:** 1/9/06  
**Date Reported:** 1/16/06  
**P.O. #:**  
**Work Order #:** 0601-00398

---

**DESCRIPTION:** SHUSTER CORP (THREE GROUNDWATER SAMPLES)

---

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015  
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

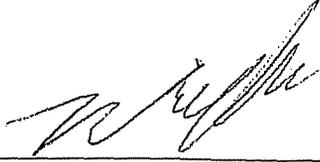
enc: Chain of Custody



## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/9/06  
 Work Order #: 0601-00398

Approved by:   
 Data Reporting

Sample # 001  
 SAMPLE DESCRIPTION: MW-1  
 SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/06/2006 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SPECIFIC CONDUCTANCE	450	1.0	uMHOS/CM	EPA 120.1	1/11/06	JW
TOTAL CYANIDE	<0.01	0.01	mg/l	EPA 335.2	1/11/06	HD
<b>PCB</b>						
Aroclor-1016	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	1/10/06	MFT
SURROGATE			RANGE	SW-846 8082	1/10/06	MFT
Tetrachloro-m-xylene (TCMX)	73		30-150%	SW-846 8082	1/10/06	MFT
Decachlorobiphenyl	54		30-150%	SW-846 8082	1/10/06	MFT
Extraction date	Extracted			SW846 3510	1/10/06	AO
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	26	10	ug/l	MADEP	1/12/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Methyl-tert-butylether	<5	5	ug/l	MADEP	1/12/06	RGM
Benzene	<5	5	ug/l	MADEP	1/12/06	RGM
Toluene	<5	5	ug/l	MADEP	1/12/06	RGM
Ethylbenzene	<5	5	ug/l	MADEP	1/12/06	RGM
m,p-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
o-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
Naphthalene	<5	5	ug/l	MADEP	1/12/06	RGM
Adjusted C5-C8 Aliphatics(FID)	26	10	ug/l	MADEP	1/12/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
C9-C10 Aromatics(PID)	<10	10	ug/l	MADEP	1/12/06	RGM
SURROGATE			RANGE		1/12/06	RGM
2,5-Dibromotoluene(PID)	87		70-130%	MADEP	1/12/06	RGM
2,5-Dibromotoluene(FID)	95		70-130%	MADEP	1/12/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C19-C36 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C11-C22 Aromatics	<20	20	ug/l	MADEP	1/12/06	NR
Total EPH	<60		ug/l	MADEP	1/12/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<5	5	ug/l	MADEP	1/12/06	NR
2-Methylnaphthalene	<5	5	ug/l	MADEP	1/12/06	NR
Acenaphthylene	<5	5	ug/l	MADEP	1/12/06	NR

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/9/06  
 Work Order #: 0601-00398

Approved by:   
 Data Reporting

Sample # 001

SAMPLE DESCRIPTION: MW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/06/2006 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthene	<5	5	ug/l	MADEP	1/12/06	NR
Fluorene	<5	5	ug/l	MADEP	1/12/06	NR
Phenanthrene	<5	5	ug/l	MADEP	1/12/06	NR
Anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Chrysene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(b)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(k)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Dibenzo(a,h)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(g,h,i)perylene	<5	5	ug/l	MADEP	1/12/06	NR
SURROGATES			RANGE		1/12/06	NR
Chloro-octadecane	53		40-140%	MADEP	1/12/06	NR
Ortho-terphenyl	77		40-140%	MADEP	1/12/06	NR
FRACTIONATION SURROGATES			RANGE		1/12/06	NR
2-Fluorobiphenyl	86		40-140%	MADEP	1/12/06	NR
2-Bromonaphthalene	87		40-140%	MADEP	1/12/06	NR
Extraction date	Extracted			MADEP	1/10/06	BNS
TOTAL DISSOLVED METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	1/13/06	JNB
BARIUM	0.040	0.005	mg/l	EPA 200.7	1/12/06	JNB
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	1/13/06	JNB
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	1/13/06	JNB
LEAD	<0.04	0.04	mg/l	EPA 200.7	1/13/06	JNB
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	1/11/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	1/13/06	JNB
SILVER	<0.02	0.02	mg/l	EPA 200.7	1/12/06	JNB

**R.I. Analytical Laboratories, Inc.**

**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Date Received: 1/9/06  
Work Order #: 0601-00398

Approved by:   
Data Reporting

All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the EPH Method with the  
following exception: C-range values may have been blank subtracted  
to minimize the effect of leachable plasticizers from the SPE  
cartridges.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/9/06  
 Work Order #: 0601-00398

Approved by:   
 Data Reporting

Sample # 002  
 SAMPLE DESCRIPTION: MW-2  
 SAMPLE TYPE: GRAB

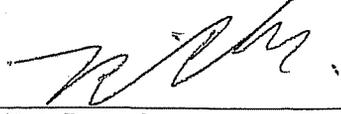
SAMPLE DATE/TIME: 1/06/2006 @ 15:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SPECIFIC CONDUCTANCE	400	1.0	uMHOS/CM	EPA 120.1	1/11/06	JW
TOTAL CYANIDE	<0.01	0.01	mg/l	EPA 335.2	1/11/06	HD
<b>PCB</b>						
Aroclor-1016	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	1/10/06	MFT
SURROGATE			RANGE	SW-846 8082	1/10/06	MFT
Tetrachloro-m-xylene (TCMX)	68		30-150%	SW-846 8082	1/10/06	MFT
Decachlorobiphenyl	35		30-150%	SW-846 8082	1/10/06	MFT
Extraction date	Extracted			SW846 3510	1/10/06	AO
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Methyl-tert-butylether	<5	5	ug/l	MADEP	1/12/06	RGM
Benzene	<5	5	ug/l	MADEP	1/12/06	RGM
Toluene	<5	5	ug/l	MADEP	1/12/06	RGM
Ethylbenzene	<5	5	ug/l	MADEP	1/12/06	RGM
m,p-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
o-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
Naphthalene	<5	5	ug/l	MADEP	1/12/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
C9-C10 Aromatics(PID)	<10	10	ug/l	MADEP	1/12/06	RGM
SURROGATE			RANGE		1/12/06	RGM
2,5-Dibromotoluene(PID)	93		70-130%	MADEP	1/12/06	RGM
2,5-Dibromotoluene(FID)	101		70-130%	MADEP	1/12/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C19-C36 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C11-C22 Aromatics	<20	20	ug/l	MADEP	1/12/06	NR
Total EPH	<60		ug/l	MADEP	1/12/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<5	5	ug/l	MADEP	1/12/06	NR
2-Methylnaphthalene	<5	5	ug/l	MADEP	1/12/06	NR
Acenaphthylene	<5	5	ug/l	MADEP	1/12/06	NR

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/9/06  
 Work Order #: 0601-00398

Approved by:   
 Data Reporting

Sample # 002

SAMPLE DESCRIPTION: MW-2

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/06/2006 @ 15:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthene	<5	5	ug/l	MADEP	1/12/06	NR
Fluorene	<5	5	ug/l	MADEP	1/12/06	NR
Phenanthrene	<5	5	ug/l	MADEP	1/12/06	NR
Anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Chrysene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(b)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(k)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Dibenzo(a,h)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(g,h,i)perylene	<5	5	ug/l	MADEP	1/12/06	NR
SURROGATES			RANGE		1/12/06	NR
Chloro-octadecane	49		40-140%	MADEP	1/12/06	NR
Ortho-terphenyl	82		40-140%	MADEP	1/12/06	NR
FRACTIONATION SURROGATES			RANGE		1/12/06	NR
2-Fluorobiphenyl	88		40-140%	MADEP	1/12/06	NR
2-Bromonaphthalene	66		40-140%	MADEP	1/12/06	NR
Extraction date	Extracted			MADEP	1/10/06	BNS
TOTAL DISSOLVED METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	1/13/06	JNB
BARIUM	0.006	0.005	mg/l	EPA 200.7	1/13/06	JNB
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	1/13/06	JNB
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	1/13/06	JNB
LEAD	<0.04	0.04	mg/l	EPA 200.7	1/13/06	JNB
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	1/11/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	1/13/06	JNB
SILVER	<0.02	0.02	mg/l	EPA 200.7	1/12/06	JNB

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Date Received: 1/9/06  
Work Order #: 0601-00398

Approved by:   
Data Reporting

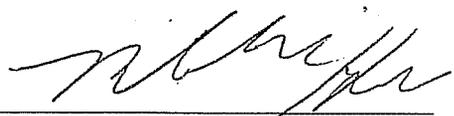
All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the EPH Method with the  
following exception: C-range values may have been blank subtracted  
to minimize the effect of leachable plasticizers from the SPE  
cartridges.

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/9/06  
 Work Order #: 0601-00398

Approved by: 

Data Reporting

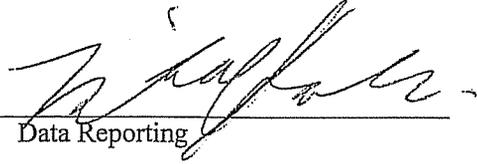
Sample # 003  
 SAMPLE DESCRIPTION: MW-4  
 SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/06/2006 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SPECIFIC CONDUCTANCE	11000	1.0	uMHOS/CM	EPA 120.1	1/11/06	JW
TOTAL CYANIDE	<0.01	0.01	mg/l	EPA 335.2	1/11/06	HD
<b>PCB</b>						
Aroclor-1016	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	1/10/06	MFT
SURROGATE			RANGE	SW-846 8082	1/10/06	MFT
Tetrachloro-m-xylene (TCMX)	68		30-150%	SW-846 8082	1/10/06	MFT
Decachlorobiphenyl	41		30-150%	SW-846 8082	1/10/06	MFT
Extraction date	Extracted			SW846 3510	1/10/06	AO
<b>VPH</b>						
Unadjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Methyl-tert-butylether	<5	5	ug/l	MADEP	1/12/06	RGM
Benzene	<5	5	ug/l	MADEP	1/12/06	RGM
Toluene	<5	5	ug/l	MADEP	1/12/06	RGM
Ethylbenzene	<5	5	ug/l	MADEP	1/12/06	RGM
m,p-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
o-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
Naphthalene	<5	5	ug/l	MADEP	1/12/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
C9-C10 Aromatics(PID)	<10	10	ug/l	MADEP	1/12/06	RGM
SURROGATE			RANGE		1/12/06	RGM
2,5-Dibromotoluene(PID)	88		70-130%	MADEP	1/12/06	RGM
2,5-Dibromotoluene(FID)	92		70-130%	MADEP	1/12/06	RGM
<b>EPH/PAH</b>						
C9-C18 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C19-C36 Aliphatics	26	20	ug/l	MADEP	1/12/06	NR
C11-C22 Aromatics	<20	20	ug/l	MADEP	1/12/06	NR
Total EPH	<60		ug/l	MADEP	1/12/06	NR
<b>TARGET PAH ANALYTES</b>						
Naphthalene	<5	5	ug/l	MADEP	1/12/06	NR
2-Methylnaphthalene	<5	5	ug/l	MADEP	1/12/06	NR
Acenaphthylene	<5	5	ug/l	MADEP	1/12/06	NR

R.I. Analytical Laboratories, Inc.  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
 Date Received: 1/9/06  
 Work Order #: 0601-00398

Approved by:   
 Data Reporting

Sample # 003

**SAMPLE DESCRIPTION:** MW-4

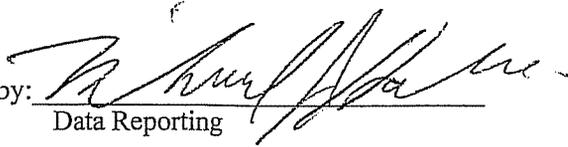
**SAMPLE TYPE:** GRAB

**SAMPLE DATE/TIME:** 1/06/2006 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthene	<5	5	ug/l	MADEP	1/12/06	NR
Fluorene	<5	5	ug/l	MADEP	1/12/06	NR
Phenanthrene	<5	5	ug/l	MADEP	1/12/06	NR
Anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Chrysene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(b)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(k)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Dibenzo(a,h)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(g,h,i)perylene	<5	5	ug/l	MADEP	1/12/06	NR
SURROGATES			RANGE		1/12/06	NR
Chloro-octadecane	42		40-140%	MADEP	1/12/06	NR
Ortho-terphenyl	77		40-140%	MADEP	1/12/06	NR
FRACTIONATION SURROGATES			RANGE		1/12/06	NR
2-Fluorobiphenyl	87		40-140%	MADEP	1/12/06	NR
2-Bromonaphthalene	88		40-140%	MADEP	1/12/06	NR
Extraction date	Extracted			MADEP	1/10/06	BNS
TOTAL DISSOLVED METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	1/13/06	JNB
BARIUM	0.029	0.005	mg/l	EPA 200.7	1/13/06	JNB
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	1/13/06	JNB
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	1/13/06	JNB
LEAD	<0.04	0.04	mg/l	EPA 200.7	1/13/06	JNB
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	1/11/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	1/13/06	JNB
SILVER	<0.02	0.02	mg/l	EPA 200.7	1/12/06	JNB

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Date Received: 1/9/06  
Work Order #: 0601-00398

Approved by:   
Data Reporting

All QA/QC procedures required by the VPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.  
All Performance/Acceptance Standards for the required QA/QC  
procedures were achieved or otherwise stated.  
No significant modifications were made to the EPH Method with the  
following exception: C-range values may have been blank subtracted  
to minimize the effect of leachable plasticizers from the SPE  
cartridges.

# CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue  
Warwick, RI 02888  
Tel: 800-937-2580  
Fax: 401-738-1970

131 Coolidge St, Bldg. 2  
Hudson, MA 01749  
Tel: 888-228-3334  
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type <sup>T</sup>	Preservation Code <sup>P</sup>	Matrix Code <sup>M</sup>															
01-06-06	2:00	MW-1	G	2-V H	GW	X															
	2:00	MW-1	G	1-AG H	GW	X															
	2:00	MW-1	G	2-AG NP	GW	X			X	XX											
	3:00	MW-2	G	2-V H	GW	X															
	3:00	MW-2	G	1-AG H	GW	X															
	3:00	MW-2	G	2-AG NP	GW	X			X	X	X										
	4:00	MW-4	G	2-V H	GW	X															
	4:00	MW-4	G	1-AG H	GW	X															
	4:00	MW-4	G	2-AG NP	GW	X			X	XX											

Added Specifics on receipt  
Per New Orders 1/9/06

VPH 4/10/06  
EPH 4/10/06  
ROR A-8  
Cyanide  
PCBS

Client Information		Project Information	
Company Name:	CLC Consulting CORP	Project Name:	Shuster Corp
Address:	P.O. Box 9531	P.O. Number:	
City / State / Zip:	Fall River MA 02720	Report To:	CLC
Telephone:	508 353 1318	Sampled by:	C. Codere
Contact Person:	Cheryl Codere	Quote No:	
	Fax: 508 874 4849	Project Number:	
		Phone:	
		Fax:	
		Email address:	

Relinquished By	Date	Time	Received By	Date	Time
[Signature]	01-09	9:00am	[Signature]	01/09/06	1754
[Signature]	01/09/06	1754	John R Ray	1/9/06	1754

Turn Around Time	
<input checked="" type="checkbox"/> Normal	EMAIL Report
5 Business days. Possible surcharge.	
<input type="checkbox"/> Rush	(business days)

**Project Comments**

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3    MCP Data Enhancement QC Package? Yes No

Metals need to be filtered in lab. Please do field type measurements to analyze for saltwater intrusion.

**Lab Use Only**

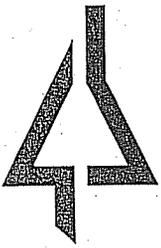
Sample Pick Up Only

RIAL sampled; attach field hours

Shipped on ice

Workorder No: 0601-00398

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile    Preservation Codes: NP=None, N=HNO<sub>3</sub>, H=HCl, S=H<sub>2</sub>SO<sub>4</sub>, SH=NaOH, SB=NaHSO<sub>4</sub>, M=MeOH, T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, Z=ZnOAc, I=Ice  
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=



R.I. Analytical

Specialists in Environmental Services

**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
Attn: Ms. Cheryl Coderre  
P.O. Box 9531  
31 Hanson Street  
Fall River, MA 02720

**Date Received:** 1/20/06  
**Date Reported:** 1/26/06  
**P.O. #:**  
**Work Order #:** 0601-01203

---

**DESCRIPTION:** SHUSTER CORPORATION (THREE SOIL SAMPLES)

---

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015  
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

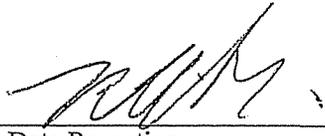
Data Reporting

enc: Chain of Custody

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

CLC Consulting Group  
 Date Received: 1/20/06  
 Work Order #: 0601-01203

Approved by:   
 Data Reporting

Sample # 001

SAMPLE DESCRIPTION: B-2 0'-5'

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/29/2005 @ 11:30

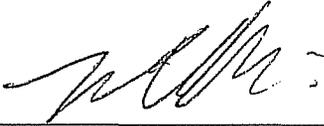
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/25/06	HD
PAH						
Naphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthylene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluorene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Phenanthrene	6	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Anthracene	3	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluoranthene	23	7	mg/kg dry	SW-846 8270C	1/24/06	PJG
Pyrene	19	7	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)anthracene	13	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Chrysene	11	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(b)fluoranthene	14	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(k)fluoranthene	7	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)pyrene	13	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Indeno(1,2,3-cd)pyrene	4	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzo(a,h)anthracene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(g,h,i)perylene	4	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
2-Methylnaphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzofuran	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
MOISTURE	12		%	SM2540 G.	1/23/06	AO
SURROGATES			RANGE	SW-846 8270C	1/24/06	PJG
Nitrobenzene-d5	69		23-120%	SW-846 8270C	1/24/06	PJG
2-Fluorobiphenyl	69		30-115%	SW-846 8270C	1/24/06	PJG
P-Terphenyl-d14	84		18-137%	SW-846 8270C	1/24/06	PJG
Extraction date	Extracted			SW846 3545	1/23/06	AO
TOTAL METALS						
LEAD	78	2.2	mg/kg dry	SW-846 6010	1/24/06	JNB

Method 8270C: Increased detection limit due to extract matrix.

Dilution factor=3x

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

CLC Consulting Group  
 Date Received: 1/20/06  
 Work Order #: 0601-01203

Approved by: 

Data Reporting

Sample # 002  
 SAMPLE DESCRIPTION: B-4 1'-3'  
 SAMPLE TYPE: GRAB  
 SAMPLE DATE/TIME: 12/29/2005 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/25/06	HD
PAH						
Naphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthylene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluorene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Phenanthrene	13	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Anthracene	3	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluoranthene	17	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Pyrene	16	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)anthracene	8	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Chrysene	7	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(b)fluoranthene	8	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(k)fluoranthene	4	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)pyrene	7	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Indeno(1,2,3-cd)pyrene	3	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzo(a,h)anthracene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(g,h,i)perylene	2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
2-Methylnaphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzofuran	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
MOISTURE	15		%	SM2540 G.	1/23/06	AO
SURROGATES			RANGE	SW-846 8270C	1/24/06	PJG
Nitrobenzene-d5	64		23-120%	SW-846 8270C	1/24/06	PJG
2-Fluorobiphenyl	64		30-115%	SW-846 8270C	1/24/06	PJG
P-Terphenyl-d14	79		18-137%	SW-846 8270C	1/24/06	PJG
Extraction date	Extracted			SW846 3545	1/23/06	AO

TOTAL METALS

LEAD 140 2.3 mg/kg dry SW-846 6010 1/24/06 JNB

Method 8270C: Increased detection limit due to extract matrix.

Dilution factor=3x

CLC Consulting Group  
 1000  
 0601-01203

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

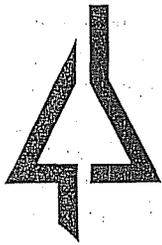
CLC Consulting Group  
 Date Received: 1/20/06  
 Work Order #: 0601-01203

Approved by:   
 Data Reporting

Sample # 003  
 SAMPLE DESCRIPTION: B-6 2'-3'  
 SAMPLE TYPE: GRAB

Extracted SAMPLE DATE/TIME: 12/29/2005 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<12	12	mg/kg dry	SW-846 9010A	1/25/06	HD
PAH						
Naphthalene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Acenaphthylene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Acenaphthene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Fluorene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Phenanthrene	2.1	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Anthracene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Fluoranthene	3.0	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Pyrene	2.8	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(a)anthracene	1.6	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Chrysene	1.5	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(b)fluoranthene	1.9	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(k)fluoranthene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(a)pyrene	1.4	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Indeno(1,2,3-cd)pyrene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Dibenzo(a,h)anthracene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(g,h,i)perylene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
2-Methylnaphthalene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Dibenzofuran	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
MOISTURE	20		%	SM2540 G.	1/23/06	AO
SURROGATES			RANGE	SW-846 8270C	1/25/06	PJG
Nitrobenzene-d5	64		23-120%	SW-846 8270C	1/25/06	PJG
2-Fluorobiphenyl	64		30-115%	SW-846 8270C	1/25/06	PJG
P-Terphenyl-d14	73		18-137%	SW-846 8270C	1/25/06	PJG
Extraction date	Extracted			SW846 3545	1/23/06	AO
TOTAL METALS						
LEAD	230	2.4	mg/kg dry	SW-846 6010	1/25/06	JNB



R.I. Analytical

Specialists in Environmental Services

## Case Narrative

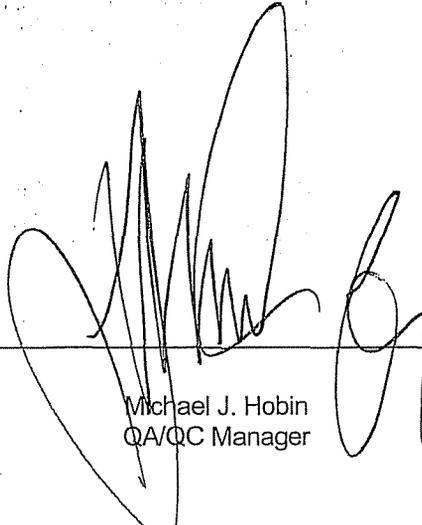
Date: 01/31/06

CLC Consulting Group  
Attn: Ms. Cheryl Coderre  
P.O. Box 9531  
31 Hanson Street  
Fall River, MA 02720

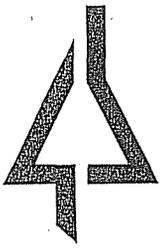
Project: SHUSTER CORPORATION

RIAL WO# 0601-01203

There were no exceptions or analytical issues to discuss concerning the testing requirements for the project.



Michael J. Hobin  
QA/QC Manager



# R.I. Analytical

Specialists in Environmental Services

Customer Name : CLC Consulting Group

W.O. Number 0601-01203

## MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: R.I. Analytical Laboratories Work Order No: 0601-01203

Project / Location: SHUSTER CORPORATION (THREE SOIL SAMPLES) MADEP RTN 1:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]  
*0601-01203-001 thru -003*

Sample Matrices:  Groundwater  Soil / Sediment  Drinking Water  Other :

MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A ( )
As specified in MADEP Compendium of Analytical Methods (check all that apply)	8270C (X)	8081A ( )	VPH ( )	6020 ( )	9014M 2 ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S 3 ( )	OTHER (X)

- 1 List Release Tracking Number (RTN), if known
- 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
- 3 S - SW-846 Methods 7000 Series List individual method and analyte

### An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	<input type="checkbox"/> Yes <input type="checkbox"/> No 1

### A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1

1 All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature

*[Signature]*  
Mike Hobin / QA/QC Manager

Date:

*[Signature]*



**RI Analytical Laboratories, Inc.**  
**QA/QC Report**

**Client:** CLC Consulting Group

**W.O. #:** 0601-01203

**Date:** 01/30/2006

**-Method Blank Results-**

Parameter	Units	Results	Date Analyzed
Cyanide	mg/kg dry	<10	01/25/2006

**-Laboratory Control Standard-**

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Cyanide	mg/kg dry	100	99	99	01/25/2006

**-Laboratory Control Standard Duplicate-**

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	RPD	Date Analyzed
Cyanide	mg/kg dry	100	98	98	1	01/25/2006

**-Replicate Sample Results-**

Parameter	Units	Sample #	Rep. 1 Conc.	Rep. 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
Cyanide	mg/kg dry	01203-1	<11	<11	<11	<11	0	01/25/2006

**-Matrix Spike Results-**

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Cyanide	mg/kg dry	01203-3	<12	115	116	101	01/25/2006

RI Analytical Laboratories, Inc.  
QA/QC Report

Client: CLC Consulting Group  
W.O. #: 0601-01203  
Date: 01/30/2006

-Method Blank Results-

Parameter	Units	Results	Date Analyzed
Lead	mg/kg dry	<2.0	1/24/2006

-LCS-

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Lead	mg/kg dry	50	50	100	1/24/2006

-LCS dup-

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Lead	mg/kg dry	50	49	98	1/24/2006

## METHOD 8270

## SEMI-VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICALCLIENT: CLC Consulting GroupW.O #: 0601-01203

## COMPOUND

## CONCENTRATION UNITS:

mg/kg dry

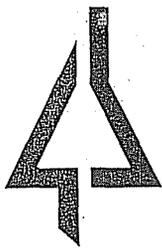
Naphthalene	<0.7
Acenaphthylene	<0.7
Acenaphthene	<0.7
Fluorene	<0.7
Phenanthrene	<0.7
Anthracene	<0.7
Fluoranthene	<0.7
Pyrene	<0.7
Benzo(a)anthracene	<0.7
Chrysene	<0.7
Benzo(b)fluoranthene	<0.7
Benzo(k)fluoranthene	<0.7
Benzo(a)pyrene	<0.7
Indeno(1,2,3-cd)pyrene	<0.7
Dibenzo(a,h)anthracene	<0.7
Benzo(g,h,i)perylene	<0.7
2-Methylnaphthalene	<0.7
Dibenzofuran	<0.7
Nitrobenzene-d5	60
2-Fluorobiphenyl	59
P-Terphenyl-d14	63

## METHOD 8270

## SEMI-VOLATILE ORGANICS LCS/LCS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICALClient: CLC Consulting GroupW.O. # 0601-01203

COMPOUND	SPIKE	LCS	LCS % REC.	LCS DUP.	LCS DUP. % REC.	RPD
	CONC. mg/kg dry	CONC. mg/kg dry		CONC. mg/kg dry		
Naphthalene	3.3	2.8	85	2.3	70	20
Acenaphthylene	3.3	2.6	79	2.2	67	17
Acenaphthene	3.3	2.7	82	2.2	67	20
Fluorene	3.3	2.8	85	2.2	67	24
Phenanthrene	3.3	2.8	85	2.3	70	20
Anthracene	3.3	2.8	85	2.3	70	20
Fluoranthene	3.3	2.9	88	2.4	73	19
Pyrene	3.3	2.5	76	2.1	64	17
Benzo(a)anthracene	3.3	2.7	82	2.2	67	20
Chrysene	3.3	2.6	79	2.2	67	17
Benzo(b)fluoranthene	3.3	2.8	85	1.9	58	38
Benzo(k)fluoranthene	3.3	2.8	85	2.4	73	15
Benzo(a)pyrene	3.3	2.8	85	2.3	70	20
Indeno(1,2,3-cd)pyrene	3.3	3.0	91	2.4	73	22
Dibenzo(a,h)anthracene	3.3	3.0	91	2.4	73	22
Benzo(g,h,i)perylene	3.3	3.1	94	2.5	76	21
2-Methylnaphthalene	3.3	2.8	85	2.3	70	20
Dibenzofuran	3.3	2.7	82	2.2	67	20
Nitrobenzene-d5			81		64	
2-Fluorobiphenyl			93		66	
P-Terphenyl-d14			84		63	



R.I. Analytical

Specialists in Environmental Services

Page 1 of 2

### CERTIFICATE OF ANALYSIS

CLC Consulting Group  
Attn: Ms. Cheryl Coderre  
P.O. Box 9531  
31 Hanson Street  
Fall River, MA 02720

**Date Received:** 1/20/2006  
**Date Reported:** 1/25/2006  
**Work Order #:** 0601-01205

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

**METHODOLOGY:** Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

R.I. Analytical Laboratories, Inc.  
**CERTIFICATE OF ANALYSIS**



Approved by: \_\_\_\_\_  
 Data Reporting

CLC Consulting Group  
 Date Received: 1/20/2006  
 Work Order #: 0601-01205  
 Site Location: SHUSTER CORPORATION (ONE SOIL SAMPLE)

**METHOD: EPA/600/R-93-116**

AMPLE O.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
01	B-62-3	PLM FIBER ANALYSIS			
		ASBESTOS	POSITIVE	1/25/2006	EDN
		Chrysotile	5-15 %	1/25/2006	EDN
		Non-fibrous	85-95 %	1/25/2006	EDN
		Sample Color	Brown	1/25/2006	EDN

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131 Coolidge St, Bldg. 2  
Hudson, MA 01749  
Tel: 888-228-3334  
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification		Grab or Composite	# of Containers & Type	Preservation Code <sup>P</sup>	Matrix Code <sup>M</sup>	PAHs	Cyanide	Lead	Asbestos (Tst)	Bulk	Analysis
12-29-05	11:30am	B-2	0-5'	G	1/G	NP	S	✓	X	X			
	12:30	B-4	1-3'	G	2/G	NP	S	X	X	X			
	1:30	B-6	2-3'	G	2/G	NP	S	X	X	X			
✓	1:30	B-6	2-3'	G	1/G	NP					X		

Client Information			Project Information		
Company Name:	CLC Consulting Group		Project Name:	Shuster Corp	
Address:	P.O. Box 9531		P.O. Number:	Project Number:	
City / State / Zip:	Fall River MA 02720		Report To:	CLC	
Telephone:	508 353 1318	Fax:	508 674 4849	Sampled by:	CLC
Contact Person:	Cheryl L. Coderre		Quote No:	Email address: clc.consultinggrp@aol	

Relinquished By	Date	Time	Received By	Date	Time
Cheryl Coderre	1-26-06	9:30am	[Signature]	01/20/06	1635
[Signature]	01/20/06	1745			

Turn Around Time	
<input checked="" type="checkbox"/>	Normal
<input type="checkbox"/>	EMAIL Report
5 Business days. Possible surcharge.	
<input type="checkbox"/>	Rush (business days)

Project Comments	
Circle if applicable: GW-1, GW-2, GW-3, <u>S-1</u> , S-2, S-3	MCP Data Enhancement QC Package? <u>Yes</u> No
0601-01205	

Lab Use Only	
<input checked="" type="checkbox"/>	Sample Pick Up Only
<input type="checkbox"/>	RIAL sampled; attach field hours
<input checked="" type="checkbox"/>	Shipped on ice
Workorder No: 0601-01203	

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile  
 Preservation Codes: NP=None, N=HNO<sub>3</sub>, H=HCl, S=H<sub>2</sub>SO<sub>4</sub>, SH=NaOH, SB=NaHSO<sub>4</sub>, M=MeOH, T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, Z=ZnOAc, I=Ice  
 Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=

## **APPENDIX H**

EPA CONTRACT NO. 68-W6-0042  
EPA WORK ASSIGNMENT NO. 043-SISI-01ZZ

EPA Project Officer: Diana King  
EPA Work Assignment Manager: Jim Byrne

**BACKGROUND SUMMARY MEMORANDUM  
FOR  
STANDARD TIMES FIELD SITE  
NEW BEDFORD, MASSACHUSETTS  
BROWNFIELDS TARGETED SITE ASSESSMENTS**

May 1999

*Prepared By:*





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## APPENDICES

- Appendix A EDR Database Search Report
- Appendix B Historical Sanborn Map Report
- Appendix C Historical Topographic Maps



## EXECUTIVE SUMMARY

Metcalf & Eddy, Inc. (M&E) prepared this Background Summary Memorandum for the property at South Front Street, known as Standard Times Field, in the city of New Bedford. This report was prepared for the U.S. Environmental Protection Agency. The purpose of the memorandum is to provide a summary of all reasonably available environmental information related to the site. This report will be used as background information for the determination of additional assessment activities for the property.

The site is bordered by the Acushnet River to the east, paved areas and Gifford Street to the south, residential and small business properties to the west, and commercial properties to the north. The site is currently vacant and is owned by the city. It contains tall grass, bush, and tree overgrowth, along with scattered rubbish and piles of fill and debris materials. Active recreational areas, including a baseball field, basketball court, and a bike path are located near the southern portion of the site.

Previous uses and features of the subject site included textile mill work and associated buildings in the late 1800s and early 1900s. The former buildings were shown to be demolished by the 1930s in historical plans. Other uses appear to be limited to the support of construction business and hydraulic projects along the river and recreational activities.

Environmental assessment reports were reviewed for the site. Three reports were made available by the city. The reports include limited subsurface investigations and summaries of records reviews. Some soil samples from these assessments indicated the presence of relatively low levels of petroleum hydrocarbons, metals, and PCBs (<2.0 ppm). The reports do not indicate spills or releases of oil or hazardous materials at the site.

A review of an environmental database search indicated that the subject site was not listed on any state or federal database. Some surrounding properties were listed, including two properties adjacent to the northwest corner of the site. These two properties were listed as having a release of oil to the subsurface soil and groundwater.

The city has plans to subdivide the area and promote the subdivisions to businesses related to commercial fishing industry.



## 1.0 INTRODUCTION

The Background Summary Memorandum for the property known as Standard Times Field has been prepared in accordance with the Work Plan developed by Metcalf & Eddy (1999) for conducting the Brownfields Targeted Site Assessments (BTSA) Work Assignment, No. 043-SISI-01ZZ, under EPA's Response Action Contract (RAC). The Standard Times Field property is located off of South Front Street in New Bedford, Massachusetts.

Information in this memorandum includes the site location and current conditions, historical uses of the property, and summaries of regulatory information for the site and surrounding properties from the review of environmental database searches and existing reports. Background and information sources used for this memorandum included the city of New Bedford's BTSA application, environmental reports submitted by the city, records and reports available at city and state agencies, environmental database search of state and federal regulatory agencies, historical Sanborn maps and topographic maps, and a limited site survey (drive-by). No formal site visit, interviews, or sampling activities, such as data measurements, were conducted.

The report is divided into the following sections:

- 2.0 - Scope of Work
- 3.0 - Site Overview
- 4.0 - Regulatory and Government Agency Review
- 5.0 - Previous/ongoing Environmental Investigation/Remediation Activities at or Near the Site
- 6.0 - Summary of Findings
- 7.0 - Statement of Limitations

The purpose of this memorandum is to summarize reasonably available information related to the site for use by M&E and its client, the U.S. EPA, for conducting a formal site visit and developing scope for conducting subsequent assessment activities in support of the objectives of EPA's BTSA program.



## 2.0 SCOPE OF WORK

In preparation of this memorandum, the following activities were conducted by M&E:

- Collection and review of readily available site information, including the BTSA Application by the city, historical topographic maps and Sanborn maps, and other publicly available information from municipal offices and departments and the regional Massachusetts Department of Protection (MADEP) office.
- Review of an environmental database search performed by Environmental Data Resources, Inc. (EDR), which included the following:
  - Federal environmental regulatory databases
  - State environmental regulatory databases
  - Geological and hydrogeological databases
- Conduct a limited site survey, or drive-by visual evaluation, of the subject and abutting properties for review of current site conditions and general features
- Contact of local and state points-of-contact (POCs)
- Review of previous environmental investigation reports, including:
  - M.G.L. 21E Assessment Report for Property at Front Street - June 1986, prepared by Kurz Associates, Inc. for Lantz and Mulford
  - Preliminary Assessment Review of the Playground Near South Terminal - September 1989, prepared by NUS Corporation for U. S. Environmental Protection Agency
  - Environmental Site Assessment, Palmers Cove - February 1991, prepared by GZA Geoenvironmental, Inc. for Warren Five Cent Savings Bank
  - Additional Environmental Assessment Services, Palmers Cove Site - April 1993, prepared by GZA Geoenvironmental, Inc. for Warren Five Cent Savings Bank

In addition to the above reports, according to the city, other studies have been conducted for Warren Five Cent Savings Bank; however, this information is not available.



The activities performed in preparation of this memorandum closely followed the requirements of ASTM E 1527-97 for conducting environmental site assessments.



### 3.0 SITE OVERVIEW

Background information on the Standard Times Field property was reviewed and is summarized below. Sources of information used includes the city's BTSA application, historical Sanborn maps provided by the city's Building Department, utility plans from the city's Engineering Department, previous environmental reports (Section 2.0), historical topographic maps, and a database search provided by EDR. In addition, information gathered from a limited site survey of the property and available information from municipal offices and departments and the regional MADEP office is included in this section where relevant. This survey was performed by driving and walking the perimeter of the site and viewing site features from public accesses and rights-of-way.

#### 3.1 Location

The Standard Times Field property (the Site) is located in the city of New Bedford, off of South Front Street, and bordered by parking areas parallel to Gifford Street to the South, and the Achusnet River to the East. Various commercial properties border the Site to the North. The Site is approximately 25.5 acres in size according to the city's BTSA application. The Site coordinates are 41°37'16.0"11 latitude and 70°55'3.7" longitude according to the EDR report. The regional area is urban with dense residential and commercial property. Much of the area that borders the river is established for various marine related businesses.

#### 3.2 Site Ownership and Use History

According to available records and information, the Site was used to support the textile milling industry in the late 1800s and early 1900s. Since that time, site use records are limited, but the Site has had a number of different owners. It is likely that the Site was used to store construction equipment and fill materials to support the construction business and marine services. In the later decades of the 1900s the site was used for recreational uses. The site history as constructed from available information is summarized as follows:

- |                |  |
|----------------|--|
| 1880s - 1930s: | The Site was used for mill work, both the Achusnet and Potomska Mills operated on the property.  |
| 1930s - 1940s: | The Site was owned by the city of New Bedford. There are no records of use; however, the mill buildings had been demolished, likely some time between 1923 and 1935. |

- 1946 - 1966: The Site was owned by E. Anthony & Sons, Inc. The only record of use was that of the U.S. Army Corps of Engineers in 1963. The site was used as a staging area for the construction of the hurricane barrier in the river.
- 1966 - 1983: The Site was owned Ottaway News and Radio.
- 1983 - 1992: The Site was owned by Palmers Island Corporation and then Palmers Cove Limited Partnership.
- 1992 - 1998: The Site was owned by the Warren Five Cents Savings Bank.
- 1998 - present: The Site is currently owned by the city of New Bedford. It is primarily vacant and there are no formal operations or uses conducted on the property.

### **3.3 Site Features and Utilities**

The Historical Sanborn Fire Insurance map database was searched by EDR for the subject property. Several maps were available for review from the years 1888, 1893, 1906, 1924, 1950, 1990, 1992, 1993, and 1995 (Appendix B).

The maps dated 1888 through 1924 indicate mill structures and associated uses at the Site. Of particular interest, these older maps show a "gas holder" and an associated building in the northeast corner of the current property, a transformer in the south section, and a buried fuel tank in the south/southeast corner (near the vicinity of the current baseball field). The buried tank is listed on the 1924 map as having a storage capacity of 150,000 gallons. There are no records of this tank being removed, nor was it identified in any previous environmental reports conducted at the Site. The Sanborn map for 1950 indicates that the buildings had been removed by that time. Maps from the 1990s show a vacant lot with one radio tower.

Historical topographic maps were available for the years 1948, 1963, 1964, 1977, and 1979. Similar to the Sanborn maps for these years, the topographic maps indicate that the property was vacant or has been used as a playground or recreational area. Historical aerial photographs were not available for review by EDR.

Currently, the lot is primarily vacant. The city is the current site owner and does not operate on the property. There is one radio tower, about 200 feet tall, on the Site and a small structure that may be used as a radio station. It is not known whether this building is utilized. Other facilities

on the Site include a baseball field and basketball court, located in the southwest corner of the Site. These areas may still be active.

Currently, there are no known sources of electric or gas utilities at the Site, with the exception of pole-mounted lights that were once used for ballfields. A stormwater drain crosses the center of the Site from west to east and extends from Blackmer Street. Another drain extends along the Northern boundary of the Site. A sewer pipe was located in the center of the Site but it not likely used at this time. These features are located on the site plan (Figure 2).

### **3.4 Environmental Conditions**

A review of topographic maps indicates that the topography of the area slopes in a east, southeast direction. The surficial topography for most of the Site slopes slightly in the same direction, towards the river. A review of previous assessment reports indicates that the Site's subsurface consists of a sandy fill over a small layer of peat and coarse gravel, with some mixture of brick, wood, and cinder, indicating that previous structures may have been demolished in place. On average, depth to groundwater ranges from 4 to 5 feet below the ground surface.

No hazardous materials are known to be stored at the Site. The city does not store or allow the storage of any materials at the Site. Currently, no wastes are generated at the property and there are no air pollution controls or issues identified at the Site. Asbestos-containing materials and lead-based paint may have been used at one time within the mill buildings; however, there are no formal records or reports of sampling and analysis being conducted that indicate that the presence of either material was evaluated at the Site. Several previous studies (NUS, 1989 and Kurtz, 1986) indicate that dredge spoils from the Harbor have been placed in the recreational areas and fill materials have been used throughout the Site.

Some limited sampling of soil and groundwater has been undertaken at the Site. Kurtz Associates' 21E assessment (1986) reported the presence of relatively low levels of PCBs (up to <1.9 ppm) and oil and grease (up to 0.707%) in two of five subsurface soil samples collected from test pits in the vicinity of the radio tower (to the south and southeast). According to the historical maps, at least one transformer was located on the property. Groundwater samples collected from water that seeped into the test pits was collected and analyzed for volatile organic compounds, of which none were detected. Subsequent sampling efforts by GZA Geoenvironmental (1991 and 1993) did not report PCBs in soil, but did confirmed the presence of petroleum hydrocarbons (fuel oil and asphalt). The Kurtz and GZA reports indicate the possibility of a buried foundation in the vicinity of the radio tower. Although no VOCs were detected in test pit grab groundwater samples



collected by GZA, methane was reported at levels ranging from 17 to 2,200 ppm. Section 5.0 provides more detail on the results of the abovementioned previous studies.

In accordance with the search of environmental databases, there are no records of spills or releases at the Site. There were several releases from properties in the surrounding area as described in Section 4.0.

### **3.5 Adjacent Properties**

Property located along the west side of the Site includes residential units with a few small businesses. Across Front Street, near the northwest corner, is a gas service station which is in operation.

Property along the north edge of the Site includes commercial and seafood related type businesses. The southern boundary of the Site includes paved areas used for parking and a marine services such as boat repair and storage. Across Gifford Street are commercial and industrial buildings, used and unused, that support a variety of businesses.

### **3.5 Intended Site Use**

The site is currently vacant without much formal use. The city is currently promoting marine-related industrial development. To date, there has been one purchase of a proposed 10-lot subdivision (Figure 3). The city recently voted to extend the boundaries of the waterfront overlay district to include the Site. Future plans include developing a formal access road and subdivision with water and sewer service in support of the subdivision.

The city has submitted an application to the Massachusetts Executive Office of Transportation and Construction for a grant for the roadway construction. Another application was submitted to the Massachusetts Department of Housing and Community Development for the design and construction of the water and sewer services.

### **3.6 Regulatory Status of the Site**

The Site, or a portion thereof, is not currently listed as a waste site under the Massachusetts Contingency Plan (310 CMR 40.0000, MCP) pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E).



## 4.0 REGULATORY AND GOVERNMENTAL AGENCY REVIEW

To facilitate review of the status of the Site in terms of federal and state regulatory requirements, the government environmental database search conducted by EDR was used. The search radius for the database review was based upon the approximated center point of the site. Facilities identified in this report are limited to the search distances used by EDR. The search of available government records is based on the requirements of ASTM Standards Practices for Environmental Site Assessments, E 1527-97. A copy of the EDR report is provided as Appendix B. This report includes siting maps that indicate the locations of surrounding properties listed in the searched databases.

M&E also conducted a search of available records and reports at state and local offices and agencies. In addition, the MADEP Site/Reportable Release database was reviewed to identify properties near the site having reported releases of oil or hazardous substances, pursuant to the MCP.

### 4.1 Federal Database Records

Summarized below are the results of EDR's federal environmental databases search that indicated the listing of the Site or properties within the search area. The Site was not listed in any federal databases searched:

- **Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)** located within approximately 1/2 mile of the subject site - One CERCLIS site was identified within 1/2 mile of the subject property and is listed below.

Site Name	Address	Distance/Direction
Dartmouth Finishing	45 Cove Street	1/8-1/4 mile South-southeast, upgradient

- **National Priority List (NPL)** for facilities within a 1 mile the subject property - No sites were identified in this database surrounding the property.
- **Resource Conservation and Recovery Information System (RCRIS) Facilities Lists;** including large and small quantity generators and treatment facilities located within



approximately 1/8 mile, and storage, transportation and disposal facilities located within approximately 1 mile of the boundary of the subject property - One site was listed within 1/4 mile of the subject property as shown below.

Site Name	Address	Distance/Direction
Multicolor Screen Printing	62 Gifford Street	1/8-1/4 mile South, upgradient

- **Toxic Chemical Release Inventory System (TRIS)** - No surrounding sites were listed as a TRIS site.
- **Toxic Substances Control Act (TSCA)** - No surrounding sites were listed as a TSCA site.

Additional details regarding the database search is provided in the EDR report in Appendix B. Other Federal databases were searched by EDR and are included in the Appendix. The subject property and surrounding properties were not located in any of the other databases searched.

#### 4.2 State Database Records

Summarized below are the results of EDR's state environmental databases search that indicated the listing of the Site or properties within the search area. The subject property was not listed in any of the state databases searched:

- **Leaking Underground Storage Tank File (LUST)** incident report lists sites located within approximately one-half mile of the subject property - Two sites located within 1/2 mile of the subject property were listed under LUST as shown below.

Site Name	Address	Distance/Direction
Mutual Service Station	56 Potomska Street	1/8-1/4 mile Northwest, upgradient
Southeast Transit Authority	75 Potomska Street	1/8-1/4 mile West-Northwest, upgradient



- **Inactive Hazardous Waste Disposal Sites (SHWS)** located within 1 mile of the subject property - Four sites were located near the subject property and are shown below.

Site Name	Address	Distance/Direction
Standard Taxi	241 County Street	¼-½ mile WNW, upgradient
Commonwealth Electric	Pine Street	½-1 mile NNW, upgradient
Morse Cutting Tools	163 Pleasant Street	½-1 mile Northwest, upgradient
Furniture City	127 W. Rodney Fr. Blvd	½-1 mile South, upgradient

- **Underground Storage Tanks (UST)** registered within ¼ mile - One UST site was identified and is listed below. The subject property was not listed as containing any registered USTs. However, as noted in Section 3.0, review of historical Sanborn maps indicates that an underground fuel tank was or is still located on the property. There are no records of its removal, and none of the environmental assessment reports confirm its existence or non-existence.

Site Name	Address	Distance/Direction
Mutual Oil Company	56 Potomska Street	⅛-¼ mile Northwest, upgradient

The following state environmental databases were reviewed by M&E:

- **Site/Reportable Release Look-up** indicates sites listed with the MADEP having a reportable release of oil or hazardous materials. Three sites were located on this list that are adjacent to the subject property.

Site Name	Address	Distance/Direction
Mutual Service Station	56 Potomska Street	⅛-¼ mile Northwest, upgradient
Southeast Transit Authority	65 Potomska Street	⅛-¼ mile West-Northwest, upgradient



Southeast Transit Authority	75 Potomska Street	1/8- 1/4 mile West-Northwest, upgradient
-----------------------------	--------------------	--

No reports were available for the 75 Potomska Street property. Reports were reviewed and summarized for the 65 Potomska Street Site (Section 5.5). A Response Action Outcome (RAO) statement has been submitted for the Mutual Service Station site.

### 4.3 Review of Additional Records

According to the EDR database search there is one coal gas site located within 1 mile of the subject property.

Site Name	Address	Distance/Direction
New Bedford Gas and Edison Light	230 S. Water Street	1/2-1 mile North-Northwest, upgradient

- **City of New Bedford Records:** Three environmental site assessments have been completed for the property or portions thereof. These reports were submitted to M&E for review and are discussed in detail in the Section 5.0. In addition, the city indicated that the former owners of the Site, Warren Five Cents Savings, conducted environmental assessments of the property. The city has not received copies of these reports.
- **New Bedford Fire Prevention Department:** In accordance with records reviewed, the Fire Prevention Department does not have any reports of hazardous substance releases at the Site. Releases of oil from leaking underground storage tanks were reported for the following adjacent properties: Mutual Oil Station at 56 Potomska Street and Southeast Transit Authority at 65 Potomska Street.

## **5.0 PREVIOUS/ON-GOING ENVIRONMENTAL INVESTIGATION/REMEDIAATION ACTIVITIES AT OR NEAR THE SITE**

In preparation of this memorandum, M&E reviewed available environmental reports. Each report was related to the site or a portion thereof. The following paragraphs summarize the information in the reports. In addition, M&E reviewed and summarized information for two MCP release sites adjacent to the subject property.

### **5.1 21E Assessment Report - Kurz Associates**

A 21E Report was prepared by Kurz Associates in 1986 for its client, Lantz and Mulford. This limited environmental assessment included a review of files, site visit, and soil and groundwater sampling. The review of files indicated that there were no reported spills or incidents at the Site. The site visit revealed a vacant lot with overgrowth and recreational areas and areas of gravel piles and rubbish.

The subsurface investigation included 20 test pits located throughout the Site. Materials encountered were 4 to 5 feet of sand and gravel, including pieces of glass, brick, and cinders. A layer of sand and a layer of peat were noted just above the test pit completion layer (6 to 10 feet below ground surface), which also consisted of sand. Groundwater was encountered at depths of 4 to 5 feet below ground surface on average.

Soil and groundwater samples collected from the test pits were analyzed for VOCs. Three water samples were analyzed for VOCs and five soil samples analyzed for PCBs and oil and grease content. Two test pit samples indicated a presence of relatively low levels of PCBs (0.8 and 1.9 ppm) and two test pit samples indicated a presence of oil and grease (3,490 ppm and 7,070 ppm). Kurz suggested that one source of the petroleum hydrocarbons may be from the importing of fill materials, but no records were available to confirm this. No VOCs were detected in the groundwater.

### **5.2 Pre-Assessment of Playground - NUS**

A pre-assessment of the playground area located in the southwest corner of the Site was conducted by NUS in 1989. The review of the area was limited to records search and site observations. No samples were collected or analyzed from the Site. The literature did indicate that part of the Site

was likely graded with dredge spoils from the Harbor. The pre-assessment did not identify the source of the fill materials, but concluded that there is a possibility that contaminated fill materials were used at the Site.

### **5.3 Environmental Site Assessments - GZA**

GZA completed an Environmental Site Assessment of the Site in 1991 for Warren Five Cents Savings Bank. The report described the Site as a vacant field with a radio tower. The report also identified sewer lines at the Site which extend from Blackmer Street. The topography was noted as gentle sloping to the East.

GZA identified the former site use by the mills and discovered that coal gasification may have been conducted at the Site. During the 1993 assessment, piles of construction debris, concrete and asphalt, were observed by GZA to be randomly scattered across the Site. In addition, municipal rubbish dumping along roadways was observed. Empty and unlabeled 55-gallon drums were also observed at the northwest corner of the property.

Soil and groundwater samples collected from test pits in 1991 and 1993 were analyzed for VOCs. Additionally the soil samples were analyzed for PCBs and petroleum hydrocarbons. Two of the soil samples were collected in close to the locations where Kurtz found PCBs. The sampling efforts by GZA did not report PCBs in soil, but did confirmed the presence of petroleum hydrocarbons (fuel oil and asphalt). Although no VOCs were detected in test pit grab groundwater samples collected by GZA, methane was reported at levels ranging from 17 to 2,200 ppm.

### **5.4 Mutual Service Station at 56 Potomska Street, RTN 4-0485**

The Mutual Service Station has operated as a fuel service station since 1968. Several underground storage tanks (USTs) had been placed and replaced at the site, including gasoline, unleaded gasoline, diesel, and kerosine tanks. In 1989, the MADEP issued a Notice of Responsibility to Mutual for the release of oil and hazardous materials at the site. Zecco reported the presence of separate-phase product in groundwater monitoring wells on the property in 1990. Subsequently, tanks were replaced in 1992 and contaminated soil was removed from the site.

A groundwater treatment and soil vapor extraction remediation system was installed in 1993 and was operated into 1996. According to Handex in a Response Action Outcome (RAO) dated June 1996, data from the site indicate a trend of lower contaminant concentrations. Oil and hazardous



material concentrations in the groundwater were below MCP Method 1 GW-2. The RAO indicated that the site conditions met a level of No Significant Risk in accordance with the MCP.

The likely flow of groundwater from this property is in a southwest direction, towards the Standard Times Field and the Acushnet River.

## **5.5 Southeast Transit Authority at 65 Potomska Street, RTN 4-0714**

This site is located within  $\frac{1}{8}$  of a mile northwest of the subject property's northwest property corner. Soil contamination was observed at the Southeast Transit Authority (SRTA) site in 1988 during the removal of USTs. The USTs contained gasoline, diesel fuel, and motor oil. Sampling and analyses indicated the presence of petroleum hydrocarbons in soil and groundwater from the former tank locations. An undocumented amount of soil was removed during the tank removal, and contamination was also evident in soils adjacent to a building structure, and were left in place. A *Limited Phase I Environmental Site Assessment Report* was submitted in November 1991 by Briggs Associates. An *LSP Evaluation Opinion*, from Atlantic Environmental, Inc. in 1996, indicated that a release of oil had occurred at the site.

A notice of Responsibility was issued to SRTA by the MADEP in March of 1998 indicating the need to address the presence of separate phase product in the groundwater. Additional contaminated soil was removed from the site in 1998 (approximately 1,000 tons).

The Southeast Transit Authority was also listed in the MADEP release database for a 72-hour reportable release (RTN 4-013706). No reports about the 72-hour release were available for review.

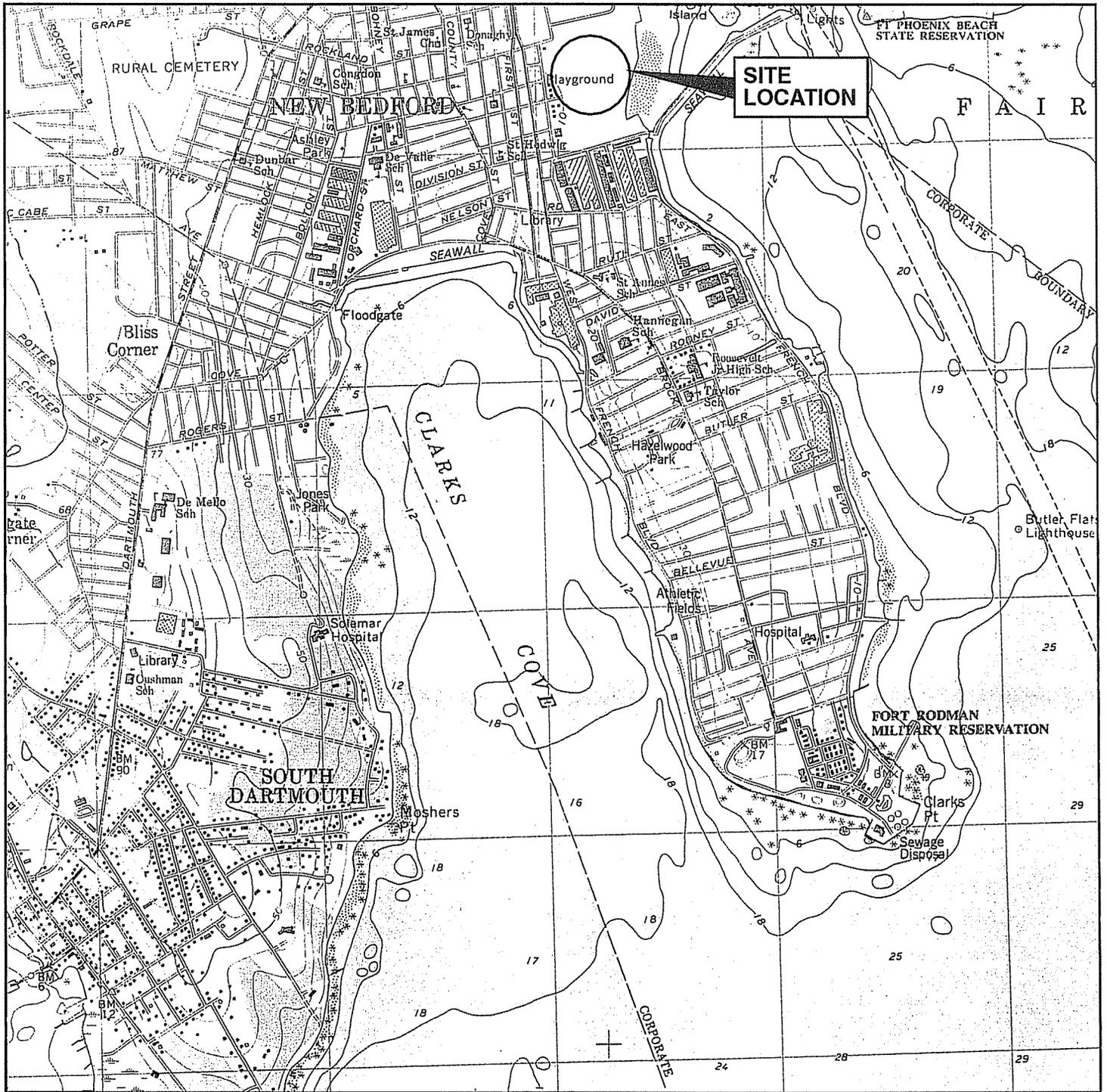
## 6.0 SUMMARY OF FINDINGS

Upon review of collected information, key points regarding the site history and current site conditions that are relevant to performing additional work in support of the BTSA at the Standard Times Field site can be summarized as follows:

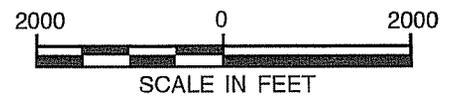
- The Site is currently owned by the city. The Site is currently vacant with some recreational use. Future plans for the Site include the development of commercial property in support of the area's fishing industry.
- Historical information indicates that textile mills operated at the Site and were demolished in the 1930s. Information shows former locations of a gas holder, gas machine, buried fuel tank, and a transformer in the vicinity of the mills.
- Previous environmental studies have indicated relatively low levels of petroleum hydrocarbons and PCBs in subsurface soil and methane in groundwater. These reports did not specifically address the presence of, or contamination due to, the former site structures such as the buried oil tank.
- Several sites near the property were identified on federal and state environmental databases. In particular, two sites had releases of petroleum products that affect the local subsurface soil and groundwater. Both sites reside within  $\frac{1}{8}$  of a mile from the northwest corner of the Site.
- Fill material, demolition debris, and dredge spoils have been reportedly placed in localized areas of the Site.



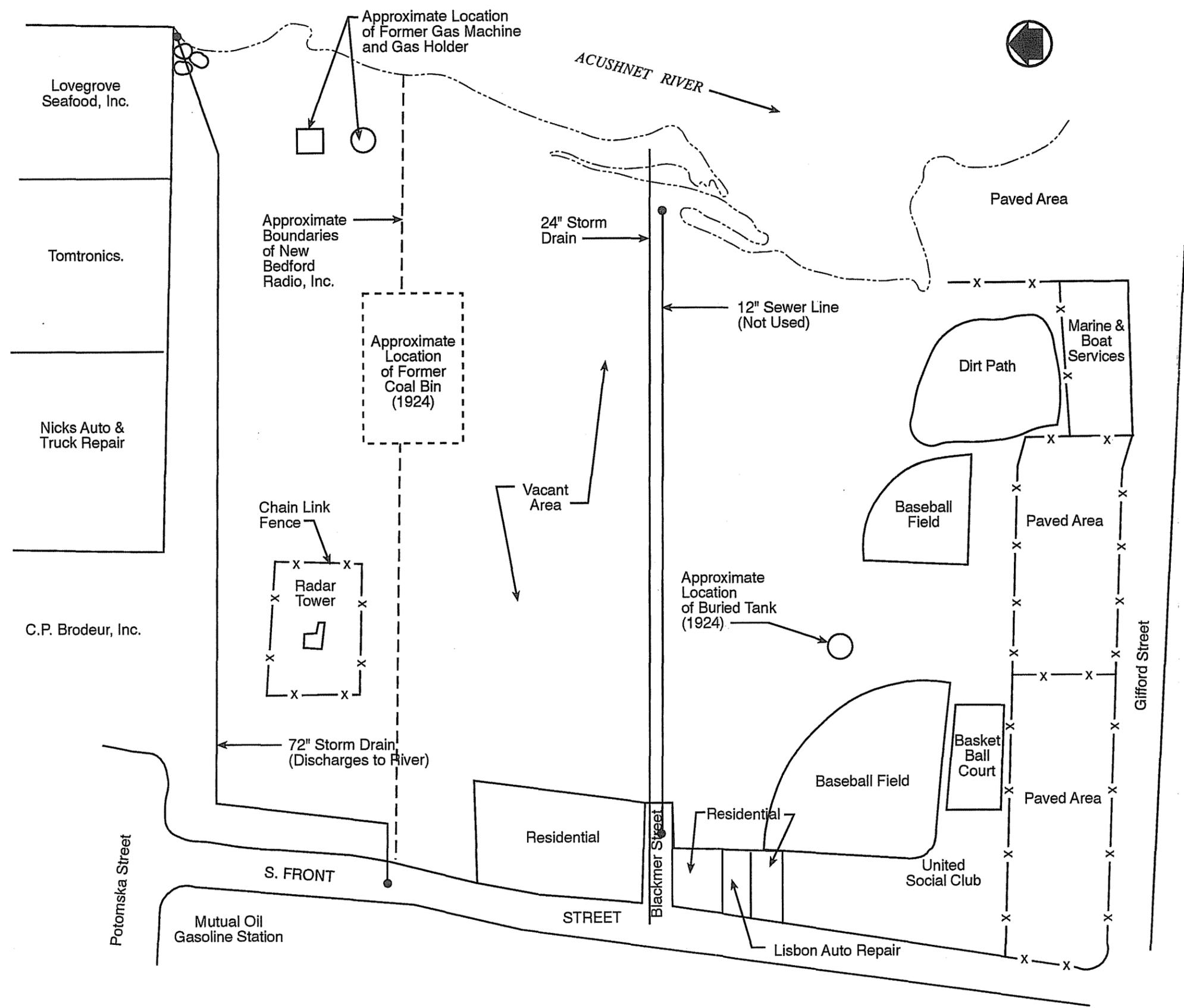
## FIGURES



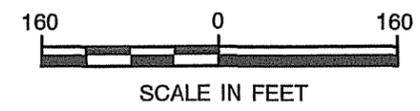
SOURCE: USGS TOPOGRAPHIC MAP  
NEW BEDFORD SOUTH, MA., 1977



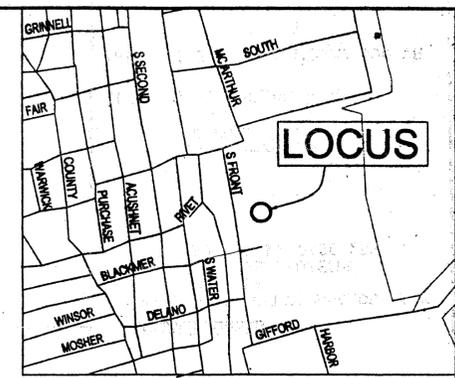
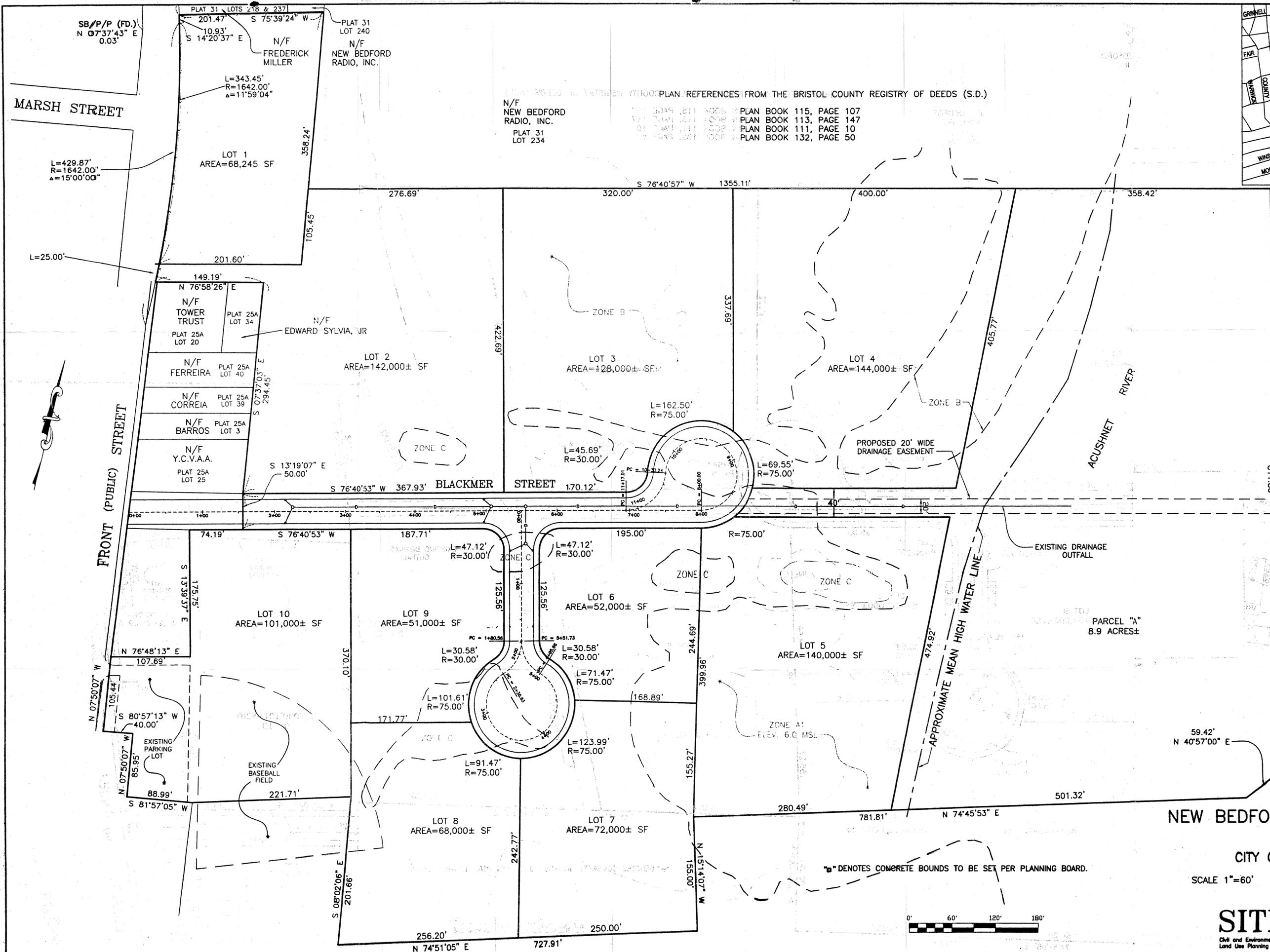
**FIGURE 1.**  
**STANDARD TIMES FIELD**  
**FRONT ST. NEW BEDFORD, MA**



NOTE:  
 The base map was developed from an aerial photograph dated 1985 provided by the New Bedford Public Works Department and the New Bedford Tax Assessors maps plat 25A dated November 1944 and Plat 31 dated January 1969.  
 Original scale 1" = 100'  
 Site Features are Located by Approximation.



**FIGURE 2.**  
**STANDARD TIMES FIELD FRONT ST.**  
**NEW BEDFORD, MA**  
**SITE PLAN**



**VICINITY MAP**

WARREN FIVE CENTS SAVINGS BANK  
P.O. BOX 6159  
PEABODY, MASSACHUSETTS  
DEED BOOK 2934, PAGE 252

**ZONING REQUIREMENTS**  
ZONING DISTRICT: INDUSTRIAL B  
AREA: N/A  
FRONTAGE: N/A  
SIDEYARD: 25 FEET  
MAXIMUM BUILDING COVERAGE: 50%

**RECORD OWNER**  
WARREN FIVE CENTS SAVINGS BANK  
P.O. BOX 6159  
PEABODY, MASSACHUSETTS  
DEED BOOK 2934, PAGE 252

**FEMA ZONES**

100-YEAR FLOODPLAIN - A1  
AREA ABOVE 100 YR./BELOW 500 YR.  
ZONE - B  
AREA OUTSIDE ALL FLOOD ZONES  
ZONE - C

**OPTION "A"  
PRELIMINARY  
PLAN OF LAND**

**IN  
NEW BEDFORD, MASSACHUSETTS**

PREPARED FOR  
**CITY OF NEW BEDFORD**

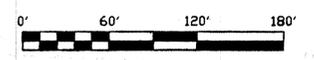
SCALE 1"=60'      AUGUST 25, 1998

PREPARED BY

**SITEC**  
Civil and Environmental Engineering  
Land Use Planning

13 Welby Road  
New Bedford, MA 02745  
(508) 998-2125  
FAX (508) 998-7554

"- DENOTES CONCRETE BOUNDS TO BE SET PER PLANNING BOARD.





APPENDIX A  
EDR DATABASE SEARCH

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## The EDR-Radius Map with GeoCheck®

Standard Times Field  
Front Street/Blackmer Street  
New Bedford, MA 02740

Inquiry Number: 359293.1s

April 16, 1999

## *The Source* For Environmental Risk Management Data

3530 Post Road  
Southport, Connecticut 06490

### Nationwide Customer Service

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

#### Disclaimer and Other Information

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-97. Search distances are per ASTM standard or custom distances requested by the user.

The address of the subject property for which the search was intended is:

FRONT STREET/BLACKMER STREET  
NEW BEDFORD, MA 02740

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-97 search radius around the subject property for the following Databases:

NPL:..... National Priority List  
Delisted NPL:..... NPL Deletions  
RCRIS-TSD:..... Resource Conservation and Recovery Information System  
CERC-NFRAP:..... Comprehensive Environmental Response, Compensation, and Liability Information System  
CORRACTS:..... Corrective Action Report  
SWF/LF:..... Solid Waste Facility Database/Transfer Stations  
AST:..... Summary Listing of All the Tanks Registered in the State of Massachusetts  
RAATS:..... RCRA Administrative Action Tracking System  
RCRIS-LQG:..... Resource Conservation and Recovery Information System  
HMIRS:..... Hazardous Materials Information Reporting System  
PADS:..... PCB Activity Database System  
ERNS:..... Emergency Response Notification System  
FINDS:..... Facility Index System/Facility Identification Initiative Program Summary Report  
TRIS:..... Toxic Chemical Release Inventory System  
NPL Lien:..... NPL Liens  
TSCA:..... Toxic Substances Control Act  
MLTS:..... Material Licensing Tracking System  
Release:..... Release Tracking Report  
MA Spills:..... Historical Spill List  
ROD:..... ROD  
CONSENT:..... Superfund (CERCLA) Consent Decrees

Unmapped (orphan) sites are not considered in the foregoing analysis.

### Search Results:

Search results for the subject property and the search radius, are listed below:

### Subject Property:

The subject property was not listed in any of the databases searched by EDR.

## EXECUTIVE SUMMARY

### Surrounding Properties:

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the subject property includes a tolerance of -10 feet. Sites with an elevation equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

**SHWS:** The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's List of Confirmed Disposal Sites & Locations to be Investigated.

A review of the SHWS list, as provided by EDR, has revealed that there are 4 SHWS sites within approximately 1 mile of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
STANDARD TAXI	241 COUNTY ST.	1/4 - 1/2WNW	6	18
<b><i>COMMONWEALTH ELECTRIC CO.</i></b>	<b><i>PINE ST.</i></b>	<b><i>1/2 - 1 NNW</i></b>	<b><i>7</i></b>	<b><i>19</i></b>
<b><i>MORSE CUTTING TOOLS</i></b>	<b><i>163 PLEASANT STREET</i></b>	<b><i>1/2 - 1 NW</i></b>	<b><i>8</i></b>	<b><i>24</i></b>
FURNITURE CITY	127 W. RODNEY FRENCH BL	1/2 - 1 S	9	29

**CERCLIS:** The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 11/10/1998 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>DARTMOUTH FINISHING</i></b>	<b><i>45 COVE STREET</i></b>	<b><i>1/4 - 1/2SSE</i></b>	<b><i>5</i></b>	<b><i>18</i></b>

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's List of Confirmed Disposal Sites & Locations to be Investigated.

A review of the LUST list, as provided by EDR, and dated 01/27/1999 has revealed that there are 2 LUST sites within approximately 0.5 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MUTUAL SERVICE STATION	56 POTOMSKA ST	1/8 - 1/4 NW	A3	17
SOUTHEAST TRANSIT AUTHORITY	75 POTOMSKA ST	1/8 - 1/4WNW	4	17

## EXECUTIVE SUMMARY

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the UST list, as provided by EDR, and dated 12/01/1998 has revealed that there is 1 UST site within approximately 0.25 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MUTUAL OIL CO., INC.	56 POTOMSKA ST	1/8 - 1/4NW	A2	9

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 01/04/1999 has revealed that there is 1 RCRIS-SQG site within approximately 0.25 miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MULTICOLOR SCREEN PRINTING INC	62 GIFFORD ST	1/8 - 1/4S	1	9

### **(Coal Gas) Former Manufactured gas (Coal Gas) Sites:**

The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative

A review of the Coal Gas list, as provided by EDR, has revealed that there is 1 Coal Gas site within approximately 1 mile of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NEW BEDFORD GAS & EDISON LIGHT	230 SOUTH WATER ST.	1/2 - 1 NNW	10	29

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
MARSH ISLAND	CERC-NFRAP, SHWS
RIVERSIDE/LOTS 33-36; 53-55	SHWS
RAILROAD DEPOT	CERCLIS, SHWS
FRANCIS PLAYGROUND	CERC-NFRAP, SHWS
SEWAGE PUMP STATION	SHWS
SUBSTATIONS/INTERCEPTORS	SHWS
FISH ISLAND	SHWS
TELEDYNE/BRITTANY DYE	SHWS
ISOTRONICS	SHWS
BRISTOL MILL LOT	SHWS
SULLIVANS LEDGE LANDFILL	SWF/LF
MAINLINE TIRE CO.	SWF/LF
NEW BEDFORD LANDFILL	SWF/LF
FRONT ST. PUMP STATION	UST
EXXON CO U S A	RCRIS-SQG, FINDS
US COAST GUARD CUTTER	RCRIS-SQG, FINDS
US COAST GUARD BIBB	FINDS, RCRIS-LQG

# TOPOGRAPHIC MAP - 359293.1s - Metcalf & Eddy, Inc.



- ↘ Major Roads
- ~ Contour Lines
- ~ Waterways
- ⊙ Earthquake epicenter, Richter 5 or greater
- ⊕ Closest Federal Well in quadrant
- ⊞ Closest State Well in 1 mile radius
- ⊕ Closest Public Water Supply Well
- ⊞ EPA Designated Sole Source Aquifers
- ▨ Potentially Productive Aquifers
- ▤ Not Potentially Productive Aquifers
- ⊞ DEP Approved Zone IIs
- ➔ Groundwater Flow Direction
- ⊞ Indeterminate Groundwater Flow at Location
- ⊞ Groundwater Flow Varies at Location

<b>TARGET PROPERTY:</b>	Standard Times Field	<b>CUSTOMER:</b>	Metcalf & Eddy, Inc.
<b>ADDRESS:</b>	Front Street/Blackmer Street	<b>CONTACT:</b>	Neil Thurber
<b>CITY/STATE/ZIP:</b>	New Bedford MA 02740	<b>INQUIRY #:</b>	359293.1s
<b>LAT/LONG:</b>	41.6211 / 70.9177	<b>DATE:</b>	April 16, 1999 9:00 am

# GEOCHECK VERSION 2.1 SUMMARY

## TARGET PROPERTY COORDINATES

Latitude (North): 41.621101 - 41° 37' 16.0"  
 Longitude (West): 70.917702 - 70° 55' 3.7"  
 Universal Transverse Mercator: Zone 19  
 UTM X (Meters): 340234.0  
 UTM Y (Meters): 4609272.0

## USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2441070-E8 NEW BEDFORD SOUTH, MA

## GEOLOGIC AGE IDENTIFICATION†

Geologic Code: Zg  
 Era: Precambrian  
 System: Precambrian  
 Series: Z gneissic rocks

## ROCK STRATIGRAPHIC UNIT†

Category: Plutonic and Intrusive Rocks

## GROUNDWATER FLOW INFORMATION

*Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡*

AQUIFLOW™\*\*\* Search Radius: 2.000 Miles

<u>MAP ID</u>	<u>DISTANCE FROM TP</u>	<u>DIRECTION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1g	1 - 2 Miles	NNW	NE
2g	1 - 2 Miles	NNE	W
3g	1 - 2 Miles	NNE	Not Reported
4g	1 - 2 Miles	WNW	S
5g	1 - 2 Miles	WNW	Not Reported
7g	1 - 2 Miles	NE	VARIABLES
8g	1/2 - 1 Mile	WNW	NOT REPORTED
9g	1/8 - 1/4 Mile	NW	VARIABLES
10g	1/2 - 1 Mile	WSW	VARIABLES
11g	1/2 - 1 Mile	WSW	Not Reported
12g	1 - 2 Miles	SW	Not Reported
13g	1 - 2 Miles	SW	SW

For additional site information, refer to GeoCheck Appendix.

General Topographic Gradient at Target Property: General ENE  
 General Hydrogeologic Gradient at Target Property: No hydrogeologic data available.

## FEDERAL DATABASE WELL INFORMATION

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>	<u>LITHOLOGY</u>	<u>DEPTH TO WATER TABLE</u>
Northern	1/2 - 1 Mile	Not Reported	10 ft.

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).  
 ‡ U.S. EPA Ground Water Handbook, Vol. I: Ground Water and Contamination, Office of Research and development EPA/625/6-90/016a, Chapter 4, page 78, September 1990.

\*\*\* EDR AQUIFLOW™ information System of hydrogeologically determined groundwater flow directions at specific locations. See the data pages at the end of this report for a complete description.

# GEOCHECK VERSION 2.1 SUMMARY

## FEDERAL DATABASE WELL INFORMATION

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>	<u>LITHOLOGY</u>	<u>DEPTH TO WATER TABLE</u>
Eastern	1 - 2 Miles	Not Reported	1 ft.
Southern	1/8 - 1/4 Mile	Not Reported	Not Reported
Western	1/2 - 1 Mile	Not Reported	Not Reported

## STATE DATABASE WELL INFORMATION

### MASSACHUSETTS PUBLIC WATER SUPPLIES WITHIN 1 MILE OF THE TARGET PROPERTY

<u>DIRECTION FROM TP</u>	<u>DISTANCE FROM TP</u>
NO WELLS FOUND	

<u>ACEC ID</u>	<u>AREA NAME</u>
Not Reported	

## PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

**NOTE:** PWS System location is not always the same as well location.

PWS Name: SHAW'S COVE IMPROVEMENT ASSN.  
SHAW'S COVE  
FAIRHAVEN, MA 02719

Location Relative to TP: 1 - 2 Miles North

PWS currently has or has had major violation(s): No

## AREA RADON INFORMATION

EPA Radon Zone for BRISTOL County: 2

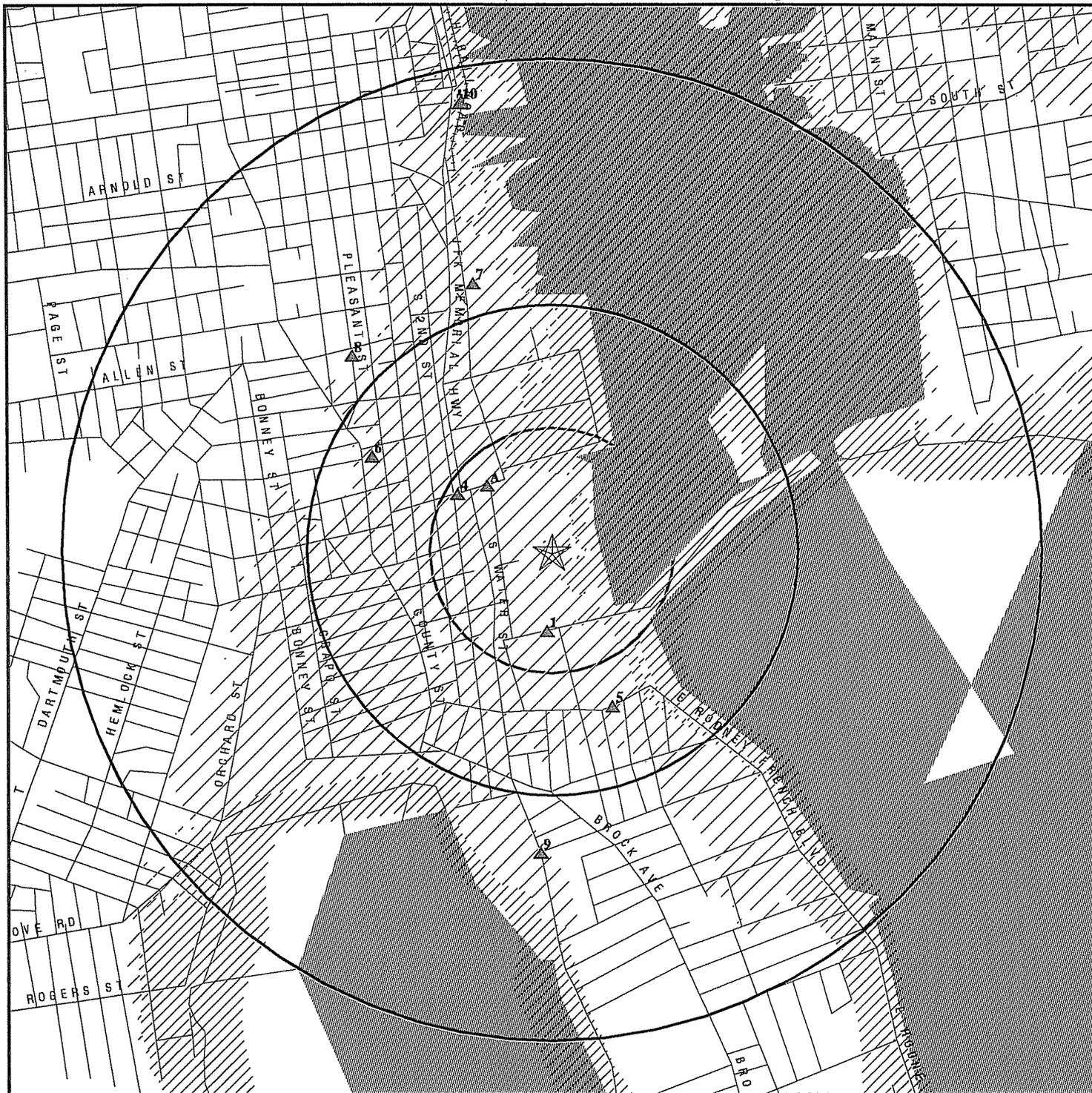
Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

Zip Code: 02740

Number of sites tested: 7

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	0.500 pCi/L	100%	0%	0%
Basement	2.743 pCi/L	71%	29%	0%

# OVERVIEW MAP - 359293.1s - Metcalf & Eddy, Inc.



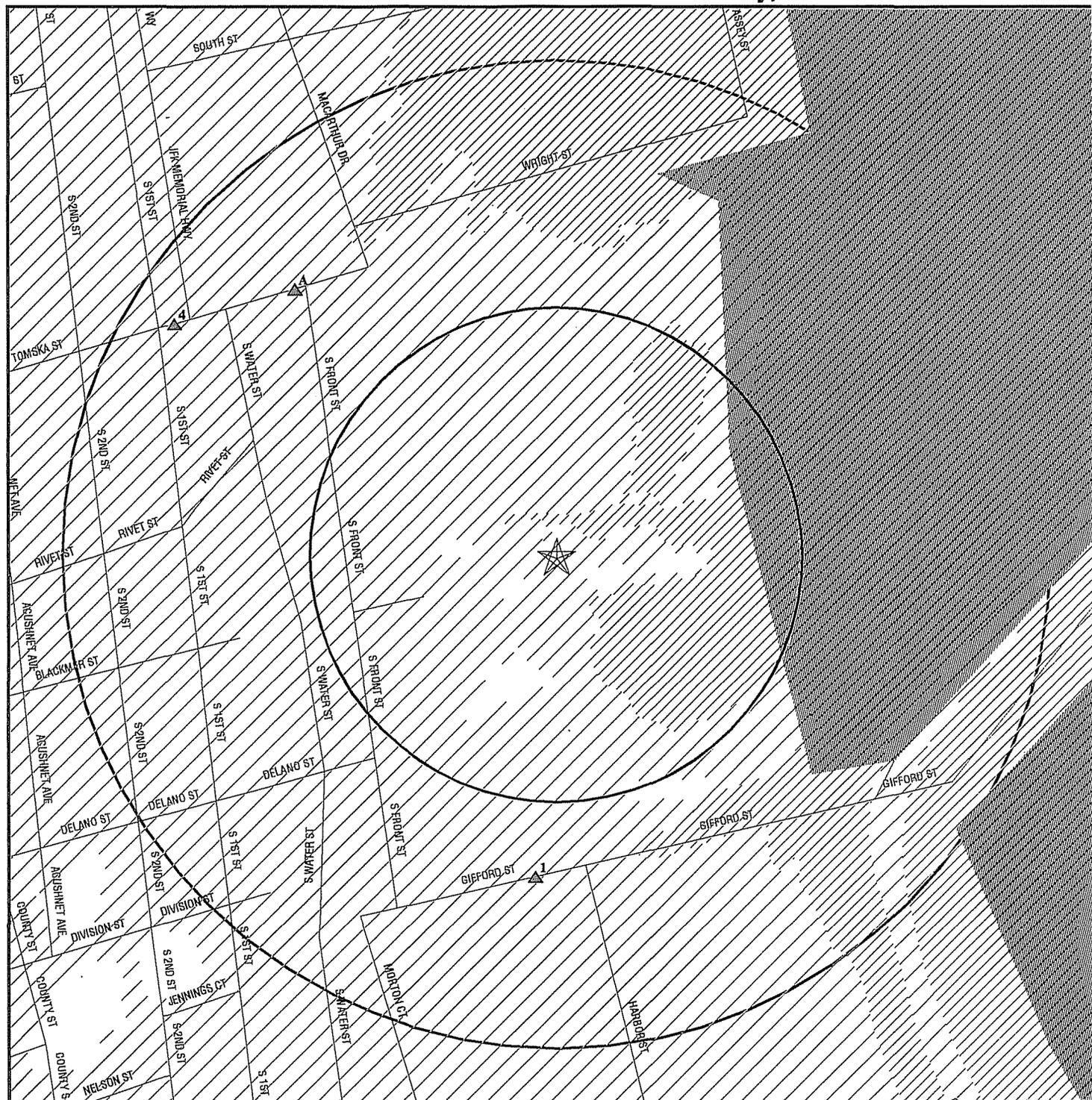
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites

- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone

▨ Areas of Critical Environmental Concern

<b>TARGET PROPERTY:</b>	Standard Times Field	<b>CUSTOMER:</b>	Metcalf & Eddy, Inc.
<b>ADDRESS:</b>	Front Street/Blackmer Street	<b>CONTACT:</b>	Neil Thurber
<b>CITY/STATE/ZIP:</b>	New Bedford MA 02740	<b>INQUIRY #:</b>	359293.1s
<b>LAT/LONG:</b>	41.6211 / 70.9177	<b>DATE:</b>	April 16, 1999 8:57 am

# DETAIL MAP - 359293.1s - Metcalf & Eddy, Inc.



★ Target Property	0 1/16 1/8 1/4 Miles	⚡ Power transmission lines	▨ Areas of Critical Environmental Concern
▲ Sites at elevations higher than or equal to the target property		⚡ Oil & Gas pipelines	
◆ Sites at elevations lower than the target property		▨ 100-year flood zone	
▲ Coal Gasification Sites (if requested)		▨ 500-year flood zone	
⚡ Sensitive Receptors			
▨ National Priority List Sites			
▨ Landfill Sites			

<b>TARGET PROPERTY:</b>	Standard Times Field	<b>CUSTOMER:</b>	Metcalf & Eddy, Inc.
<b>ADDRESS:</b>	Front Street/Blackmer Street	<b>CONTACT:</b>	Neil Thurber
<b>CITY/STATE/ZIP:</b>	New Bedford MA 02740	<b>INQUIRY #:</b>	359293.1s
<b>LAT/LONG:</b>	41.6211 / 70.9177	<b>DATE:</b>	April 16, 1999 8:59 am

## MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL	TP		NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
State Haz. Waste		1.000	0	0	1	3	NR	4
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP	TP		NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	0	NR	NR	2
UST		0.250	0	1	NR	NR	NR	1
AST	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
NPL Liens	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
Release	TP		NR	NR	NR	NR	NR	0
MA Spills	TP		NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	1	NR	1

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

**MAP FINDINGS SUMMARY SHOWING  
ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL	TP		NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
State Haz. Waste		1.000	0	0	1	3	NR	4
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP	TP		NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	0	NR	NR	2
UST		0.250	0	1	NR	NR	NR	1
AST	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
NPL Liens	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
Release	TP		NR	NR	NR	NR	NR	0
MA Spills	TP		NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	1	NR	1

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

1  
 South  
 1/8-1/4  
 861  
 Higher

**MULTICOLOR SCREEN PRINTING INC**  
**62 GIFFORD ST**  
**NEW BEDFORD, MA 02744**

**RCRIS-SQG** 1001214291  
**FINDS** MAR000008458

RCRIS:

Owner: MULTICOLOR SCREEN PRINTING INC  
 (508) 996-0419

Contact: ROBERT L LIPMAN  
 (508) 996-0419

Record Date: 09/25/1997

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

A2  
 NW  
 1/8-1/4  
 998  
 Higher

**MUTUAL OIL CO., INC.**  
**56 POTOMSKA ST**  
**NEW BEDFORD, MA 02740**

UST

U002007821  
 N/A

UST:

Facility ID:	3484	Tank ID:	1
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/1/71 0:00:00	Last Used:	3/31/91 0:00:00
Capacity:	4000	Leak:	0
Facility Phone:	Not reported		
Owner:	MUTUAL OIL CO., INC.		
Owner Address:	P.O. BOX 250 BROCKTON, MA 02403 PLYMOUTH County		
Owner Phone:	Not reported		
Serial Num:	Not reported		
Aboveground:	No		
Contents:	Gasoline		
Hazardous:	No		
CERCLA Num:	Not reported		
Case Num:	Not reported		
Lined Tank:	No		
Excavation Liner:	No		
Pipe Repaired:	No		
Pipe Repair Date:	Not reported		
Gravity Feed:	No		
Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Not reported
Tank Material:	Bare Steel		
Tank Contents:	Not reported		
Pipe Material:	Bare Steel		
Pipe Contents:	Not reported		
Tank Leak Detect:	Not reported		
Pipe Leak Detect:	Not reported		
Tank Notes:	Not reported		
Pipe Notes:	Not reported		
Tight Test Date:	Not reported		
Inventory Control:	Not reported		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

MUTUAL OIL CO., INC. (Continued)

U002007821

Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3484  
Tank Status: Removed  
Install Date: 5/1/71 0:00:00  
Capacity: 4000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County

Tank ID: 2  
Tank Use: Not reported  
Last Used: 3/31/91 0:00:00  
Leak: 0

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No

CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Bare Steel  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3484  
Tank Status: Removed  
Install Date: 5/1/71 0:00:00  
Capacity: 4000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250

Tank ID: 3  
Tank Use: Not reported  
Last Used: 3/31/91 0:00:00  
Leak: 0

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

EDR ID Number  
EPA ID Number  
Database(s)

MUTUAL OIL CO., INC. (Continued)

U002007821

BROCKTON, MA 02403  
PLYMOUTH County

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Bare Steel  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Facility ID: 3484  
Tank Status: Removed  
Install Date: 5/1/71 0:00:00  
Capacity: 4000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County

Tank ID: 4  
Tank Use: Not reported  
Last Used: 3/31/91 0:00:00  
Leak: 0

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: Yes  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No

Implement Certif: No

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

MUTUAL OIL CO., INC. (Continued)

U002007821

Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Bare Steel  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Implement Insp: No  
Other Method: Not reported

Facility ID: 3484  
Tank Status: Removed  
Install Date: 5/1/71 0:00:00  
Capacity: 4000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County

Tank ID: 5  
Tank Use: Not reported  
Last Used: 3/31/91 0:00:00  
Leak: 0

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Diesel  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Bare Steel  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

MUTUAL OIL CO., INC. (Continued)

U002007821

527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3484  
Tank Status: Removed  
Install Date: 4/30/85 0:00:00  
Capacity: 4000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County

Tank ID: 6  
Tank Use: Not reported  
Last Used: 3/31/91 0:00:00  
Leak: 0

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Kerosene  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Bare Steel  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3484  
Tank Status: Removed  
Install Date: 4/30/85 0:00:00  
Capacity: 8000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County  
Owner Phone: Not reported

Tank ID: 7  
Tank Use: Not reported  
Last Used: 3/31/91 0:00:00  
Leak: 0

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

MUTUAL OIL CO., INC. (Continued)

U002007821

Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Bare Steel  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported  
Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Facility ID: 3484  
Tank Status: In Use  
Install Date: 4/24/92 0:00:00  
Capacity: 12000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County  
Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Fiberglass Reinforced Plastic  
Tank ID: 8  
Tank Use: MV  
Last Used: Not reported  
Leak: 0  
Implement Certif: No  
Implement Insp: No  
Other Method: Mfg i

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

MUTUAL OIL CO., INC. (Continued)

U002007821

Tank Contents: Double Walled  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Contents: Double Walled  
Tank Leak Detect: Interstitial Monitoring  
Pipe Leak Detect: Interstitial Space Monitor  
Tank Notes: spill containment device, overfill prevention device  
Pipe Notes: automatic flow restrictor  
Tight Test Date: Not reported  
Inventory Control: Manual Gauging  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3484  
Tank Status: In Use  
Install Date: 4/24/92 0:00:00  
Capacity: 10000  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County

Tank ID: 9  
Tank Use: MV  
Last Used: Not reported  
Leak: 0

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Insp: No  
Install Checklists: No

Implement Certif: No  
Implement Insp: No  
Other Method: Mfg i

Tank Material: Fiberglass Reinforced Plastic  
Tank Contents: Double Walled  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Contents: Double Walled  
Tank Leak Detect: Interstitial Monitoring  
Pipe Leak Detect: Interstitial Space Monitor  
Tank Notes: spill containment device, overfill prevention device  
Pipe Notes: automatic flow restrictor  
Tight Test Date: Not reported  
Inventory Control: Manual Gauging  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

MUTUAL OIL CO., INC. (Continued)

U002007821

Assessing Agency: Not reported

Facility ID: 3484 Tank ID: 10  
Tank Status: In Use Tank Use: MV  
Install Date: 4/24/92 0:00:00 Last Used: Not reported  
Capacity: 12000 Leak: 0  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County  
Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No Implement Certif: No  
Engineer Inspect: No Implement Insp: No  
Install Checklists: No Other Method: Mfg i  
Tank Material: Fiberglass Reinforced Plastic  
Tank Contents: Double Walled  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Contents: Double Walled  
Tank Leak Detect: Interstitial Monitoring  
Pipe Leak Detect: Interstitial Space Monitor  
Tank Notes: spill containment device, overfill prevention device  
Pipe Notes: automatic flow restrictor  
Tight Test Date: Not reported  
Inventory Control: Manual Gauging  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3484 Tank ID: 11  
Tank Status: In Use Tank Use: MV  
Install Date: 4/24/92 0:00:00 Last Used: Not reported  
Capacity: 6000 Leak: 0  
Facility Phone: Not reported  
Owner: MUTUAL OIL CO., INC.  
Owner Address: P.O. BOX 250  
BROCKTON, MA 02403  
PLYMOUTH County  
Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Diesel

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**MUTUAL OIL CO., INC. (Continued)**

**U002007821**

Hazardous: No  
 CERCLA Num: Not reported  
 Case Num: Not reported  
 Lined Tank: No  
 Excavation Liner: No  
 Pipe Repaired: No  
 Pipe Repair Date: Not reported  
 Gravity Feed: No  
 Manuf Certified: No  
 Engineer Inspect: No  
 Install Checklists: No  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank Contents: Double Walled  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Contents: Double Walled  
 Tank Leak Detect: Interstitial Monitoring  
 Pipe Leak Detect: Interstitial Space Monitor  
 Tank Notes: spill containment device, overfill prevention device  
 Pipe Notes: automatic flow restrictor  
 Tight Test Date: Not reported  
 Inventory Control: Manual Gauging  
 Cath Prot Test: Not reported  
 Date Removed: Not reported  
 Piping Status: Not reported  
 527 CMR 9.00: No  
 DEP Notified: No  
 DEP Tracking ID: Not reported  
 Assessing Agency: Not reported

Implement Certif: No  
 Implement Insp: No  
 Other Method: Mfg i

**A3  
 NW  
 1/8-1/4  
 998  
 Higher**

**MUTUAL SERVICE STATION  
 56 POTOMSKA ST  
 NEW BEDFORD, MA 02740**

**LUST**

**S100351830  
 N/A**

**LUST:**

Facility ID: 4-0000485	Current Status: PHASE 2
Facility Status: Responsible Action Outcome	Site Status: NON-PRIORITY CONFIRMED
Site Product: PETROLEUM	Site Type: 21E
Initiating Agency: SAB	Action Taken by: RP ONLY
Pub Involvement: Not reported	LTBI Listing Date: 01/15/1988
Date Confirmed: 01/15/1990	Date Deleted: Not reported
Date Listed: Not reported	Region: Southeast
REQ Type: Not reported	REQ Due: Not reported
ERB Number: Not reported	EPA Number: Not reported
Action Taken: Not reported	

Contained in Leaking Underground Storage Tank: Yes

**4  
 WNW  
 1/8-1/4  
 1194  
 Higher**

**SOUTHEAST TRANSIT AUTHORITY  
 75 POTOMSKA ST  
 NEW BEDFORD, MA 02740**

**LUST**

**S100829287  
 N/A**

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

SOUTHEAST TRANSIT AUTHORITY (Continued)

S100829287

LUST:

Facility ID:	4-0000714	Current Status:	P.A.	L
Facility Status:	Tier 2 Classification	Site Status:	L.T.B.I.	
Site Product:	PETROLEUM	Site Type:	21E	
Initiating Agency:	SAB	Action Taken by:	RP ONLY	
Pub Involvement:	Not reported	LTBI Listing Date:	10/15/1989	
Date Confirmed:	Not reported	Date Deleted:	Not reported	
Date Listed:	Not reported	Region:	Southeast	
REQ Type:	Not reported	REQ Due:	Not reported	
ERB Number:	Not reported	EPA Number:	Not reported	
Action Taken:	Not reported			
Contained in Leaking Underground Storage Tank: Yes				

5  
SSE  
1/4-1/2  
1790  
Higher

DARTMOUTH FINISHING  
45 COVE STREET  
NEW BEDFORD, MA 02744

CERCLIS 1000520652  
Release MAD985275015

CERCLIS Classification Data:

Site Incident Category:	Non-Oil Spill	Federal Facility:	Not a Federal Facility
Ownership Status:	Private	NPL Status:	Not on the NPL
Site Description:	ABANDONED TEXTILE FINISHING FACILITY		

CERCLIS Assessment History:

Assessment:	REMOVAL ASSESSMENT	Completed:	19970129
Assessment:	REMOVAL	Completed:	19970717
Assessment:	ADMINISTRATIVE RECORDS	Completed:	Not reported

CERCLIS Site Status:  
Not reported

MA RELEASE:

Facility ID:	4-0012810
Notification:	01/21/1997
Category:	TWO HR
Chemical Released:	
Chemical:	UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount:	11000, gallons
Location Type:	INDUSTRIAL
ASC Release Tracking Number:	-

6  
WNW  
1/4-1/2  
2194  
Higher

STANDARD TAXI  
241 COUNTY ST.  
NEW BEDFORD, MA

SHWS S100363079  
N/A

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

STANDARD TAXI (Continued)

S100363079

SHWS:

Facility ID:	4-0001052	Current Status:	PHASE 1 C
Facility Status:	DEF TIER 1B	Site Status:	UNCLASSIFIED CONFIRMED
Site Product:	PETROLEUM	Site Type:	21E
Initiating Agency:	ERB	Action Taken by:	RP ONLY
Pub Involvement:	Not reported	LTBI Listing Date:	04/15/1991
REQ Type:	Not reported	REQ Due:	Not reported
Date Confirmed:	04/15/1991	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
ERB Number:	S-89-0188	EPA Number:	Not reported
Action Taken:	Not reported		

7  
NNW  
1/2-1  
3002  
Higher

COMMONWEALTH ELECTRIC CO.  
PINE ST.  
NEW BEDFORD, MA 02740

UST  
SHWS

U000230780  
N/A

SHWS:

Facility ID:	4-0000117	Current Status:	P.A. L
Facility Status:	NFA	Site Status:	L.T.B.I.
Site Product:	HAZARDOUS	Site Type:	21E
Initiating Agency:	EPA	Action Taken by:	RP AND EPA
Pub Involvement:	Not reported	LTBI Listing Date:	01/15/1987
REQ Type:	Not reported	REQ Due:	Not reported
Date Confirmed:	Not reported	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
ERB Number:	Not reported	EPA Number:	MAD980915490
Action Taken:	Not reported		

UST:

Facility ID:	3472	Tank ID:	1
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/6/73 0:00:00	Last Used:	8/20/90 0:00:00
Capacity:	5000	Leak:	0
Facility Phone:	Not reported		
Owner:	COMMONWEALTH ELECTRIC COMPANY		
Owner Address:	2421 CRANBERRY HIGHWAY WAREHAM, MA 02571 PLYMOUTH County		
Owner Phone:	Not reported		
Serial Num:	Not reported		
Aboveground:	No		
Contents:	Gasoline		
Hazardous:	No		
CERCLA Num:	Not reported		
Case Num:	Not reported		
Lined Tank:	No		
Excavation Liner:	No		
Pipe Repaired:	No		
Pipe Repair Date:	Not reported		
Gravity Feed:	No		
Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Not reported
Tank Material:	Bare Steel		
Tank Contents:	Not reported		
Pipe Material:	Not reported		
Pipe Contents:	Not reported		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

COMMONWEALTH ELECTRIC CO. (Continued)

U000230780

Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3472 Tank ID: 2  
Tank Status: Removed Tank Use: Not reported  
Install Date: 5/6/73 0:00:00 Last Used: 7/20/90 0:00:00  
Capacity: 5000 Leak: 0  
Facility Phone: Not reported  
Owner: COMMONWEALTH ELECTRIC COMPANY  
Owner Address: 2421 CRANBERRY HIGHWAY  
WAREHAM, MA 02571  
PLYMOUTH County

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No Implement Certif: No  
Engineer Inspect: No Implement Insp: No  
Install Checklists: No Other Method: Not reported  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3472 Tank ID: 3

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

COMMONWEALTH ELECTRIC CO. (Continued)

U000230780

Tank Status: Removed Tank Use: Not reported  
Install Date: 5/6/76 0:00:00 Last Used: 8/20/90 0:00:00  
Capacity: 5000 Leak: 0  
Facility Phone: Not reported  
Owner: COMMONWEALTH ELECTRIC COMPANY  
Owner Address: 2421 CRANBERRY HIGHWAY  
WAREHAM, MA 02571  
PLYMOUTH County  
Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Diesel  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No Implement Certif: No  
Engineer Inspect: No Implement Insp: No  
Install Checklists: No Other Method: Not reported  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3472 Tank ID: 4  
Tank Status: Removed Tank Use: Not reported  
Install Date: 5/6/81 0:00:00 Last Used: 10/10/92 0:00:00  
Capacity: 10000 Leak: 0  
Facility Phone: Not reported  
Owner: COMMONWEALTH ELECTRIC COMPANY  
Owner Address: 2421 CRANBERRY HIGHWAY  
WAREHAM, MA 02571  
PLYMOUTH County  
Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

COMMONWEALTH ELECTRIC CO. (Continued)

U000230780

Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Facility ID: 3472  
Tank Status: Removed  
Install Date: 5/6/73 0:00:00  
Capacity: 500  
Facility Phone: Not reported  
Owner: COMMONWEALTH ELECTRIC COMPANY  
Owner Address: 2421 CRANBERRY HIGHWAY  
WAREHAM, MA 02571  
PLYMOUTH County  
Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Waste Oil  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported

Tank ID: 5  
Tank Use: Not reported  
Last Used: 8/20/90 0:00:00  
Leak: 0

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

COMMONWEALTH ELECTRIC CO. (Continued)

U000230780

Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3472 Tank ID: 6  
Tank Status: In Use Tank Use: MV  
Install Date: 8/1/90 0:00:00 Last Used: Not reported  
Capacity: 10000 Leak: 0  
Facility Phone: Not reported  
Owner: COMMONWEALTH ELECTRIC COMPANY  
Owner Address: 2421 CRANBERRY HIGHWAY  
WAREHAM, MA 02571  
PLYMOUTH County

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No

Implement Certif: No  
Implement Insp: No  
Other Method: Mfg K

Tank Material: Fiberglass Reinforced Plastic  
Tank Contents: Double Walled  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Contents: Double Walled  
Tank Leak Detect: Interstitial Monitoring  
Pipe Leak Detect: Interstitial Space Monitor  
Tank Notes: spill containment device, overfill prevention device  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Automatic Gauging  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: In Use  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3472 Tank ID: 7  
Tank Status: In Use Tank Use: MV  
Install Date: 8/1/90 0:00:00 Last Used: Not reported  
Capacity: 10000 Leak: 0

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**COMMONWEALTH ELECTRIC CO. (Continued)**

**U000230780**

Facility Phone: Not reported  
 Owner: COMMONWEALTH ELECTRIC COMPANY  
 Owner Address: 2421 CRANBERRY HIGHWAY  
 WAREHAM, MA 02571  
 PLYMOUTH County  
 Owner Phone: Not reported  
 Serial Num: Not reported  
 Aboveground: No  
 Contents: Diesel  
 Hazardous: No  
 CERCLA Num: Not reported  
 Case Num: Not reported  
 Lined Tank: No  
 Excavation Liner: No  
 Pipe Repaired: No  
 Pipe Repair Date: Not reported  
 Gravity Feed: No  
 Manuf Certified: No  
 Engineer Inspect: No  
 Install Checklists: No  
 Tank Material: Fiberglass Reinforced Plastic  
 Tank Contents: Double Walled  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Contents: Double Walled  
 Tank Leak Detect: Interstitial Monitoring  
 Pipe Leak Detect: Interstitial Space Monitor  
 Tank Notes: spill containment device, overfill prevention device  
 Pipe Notes: Not reported  
 Tight Test Date: Not reported  
 Inventory Control: Automatic Gauging  
 Cath Prot Test: Not reported  
 Date Removed: Not reported  
 Piping Status: In Use  
 527 CMR 9.00: No  
 DEP Notified: No  
 DEP Tracking ID: Not reported  
 Assessing Agency: Not reported

Implement Certif: No  
 Implement Insp: No  
 Other Method: Mfg K

8  
 NW  
 1/2-1  
 3011  
 Higher

**MORSE CUTTING TOOLS**  
**163 PLEASANT STREET**  
**NEW BEDFORD, MA 02740**

**RCRIS-LQG 1000378887**  
**CERC-NFRAP MAD051505683**  
**UST**  
**MA Spills**  
**SHWS**

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported  
 Ownership Status: Private

Federal Facility: Not reported  
 NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	REMOVAL ASSESSMENT	Completed:	19920303
Assessment:	REMOVAL	Completed:	19920702
Assessment:	COST RECVRY DECSN DOCMT-NO SUE	Completed:	19950404
Assessment:	NON-NPL PRP SEARCH	Completed:	19950404
Assessment:	ADMINISTRATIVE RECORDS	Completed:	Not reported
Assessment:	REMOVAL ASSESSMENT	Completed:	Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

**1000378887**

**RCRIS:**

Owner: RONALD E HENDERSON MGR SAFETY & SECUR  
 (617) 994-9611

Contact: JAMES WILLIAMS  
 (508) 994-9611

Record Date: 08/18/1980

Classification: Large Quantity Generator

Used Oil Recyc: No

Violation Status: Violation information exist

There are 6 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	07/01/1992
Other Evaluation	Generator-All Requirements	04/09/1987
Non-Financial Record Review	Generator-All Requirements	02/27/1992
	Generator-All Requirements	02/27/1992
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	09/10/1985
	Generator-All Requirements	09/10/1985

**SHWS:**

Facility ID: 4-0001203	Current Status: P.A. L
Facility Status: TIER 2	Site Status: L.T.B.I.
Site Product: BOTH	Site Type: 21E
Initiating Agency: ERB	Action Taken by: DEP AND EPA
Pub Involvement: YES	LTBI Listing Date: 07/15/1992
REQ Type: Not reported	REQ Due: Not reported
Date Confirmed: Not reported	Date Deleted: Not reported
Date Listed: Not reported	Region: Southeast
ERB Number: S-92-0124	EPA Number: Not reported
Action Taken: Removal of the contamination source (such as drums, tanks or contaminated soil) to a licensed facility.	

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

1000378887

MA Spills:

Facility ID:	4-1203	Spill ID:	S92-0124
Staff Lead:	MORAN, M	Date Entered:	Not reported
Last Entered:	03/11/1992	First Response:	02/27/1992
Spill Date:	02/27/1992	Report Date:	02/27/1992
Spill Time:	Not reported	Report Time:	01:00PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported
Material:	WASTE OIL		
Other Material:	Not reported		
CAS No:	Not reported	PCB Lev (ppm):	-----
Qty Reported:	UNKNOWN GALLONS	Qty Actual:	UNKNOWN GALLONS
Source:	OTHER SOURCE >	Other Source:	ABANDONED
Incident:	OTHER RELEASE >	Other Incdnt:	BUILDING
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Notifier:	LT GAUTHIER/FD		
Notif Tel:	Not reported	Notify Date:	Not reported
Report Prep:	Not reported	Category:	Not reported
Days/Close:	0	Capacity:	Not reported
Chemical:	Not reported		
Quantity:	Not reported		

Facility ID:	0000	Spill ID:	S93-0620
Staff Lead:	OTHER	Date Entered:	02/24/1994
Last Entered:	02/24/1994	First Response:	08/25/1993
Spill Date:	08/25/0768	Report Date:	08/25/1993
Spill Time:	Not reported	Report Time:	01:30
Case Closed:	YES	Mat Type:	UNKNOWN
Virgin Waste:	-----	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->		
Other Material:	CUTTING OIL		
CAS No:	Not reported	PCB Lev (ppm):	-----
Qty Reported:	-----	Qty Actual:	UNKNOWN -----
Source:	OTHER SOURCE >	Other Source:	UNKNOWN
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Notifier:	BILL BACKBURN/NB HEALTH DEPT		
Notif Tel:	Not reported	Notify Date:	Not reported
Report Prep:	Not reported	Category:	Not reported
Days/Close:	0	Capacity:	Not reported
Chemical:	Not reported		
Quantity:	Not reported		

UST:

Facility ID:	3406	Tank ID:	1
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	4/22/72 0:00:00	Last Used:	10/10/88 0:00:00
Capacity:	50	Leak:	0
Facility Phone:	Not reported		
Owner:	MORSE CUTTING TOOLS		
Owner Address:	163 PLEASANT ST. NEW BEDFORD, MA 02742 BRISTOL County		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

MORSE CUTTING TOOLS (Continued)

1000378887

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Gasoline  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No  
Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Facility ID: 3406  
Tank Status: Removed  
Install Date: 4/22/56 0:00:00  
Capacity: 500  
Facility Phone: Not reported  
Owner: MORSE CUTTING TOOLS  
Owner Address: 163 PLEASANT ST.  
NEW BEDFORD, MA 02742  
BRISTOL County

Tank ID: 2  
Tank Use: Not reported  
Last Used: Not reported  
Leak: 0

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Not reported  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

MORSE CUTTING TOOLS (Continued)

1000378887

Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: 3/1/70 0:00:00  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No  
DEP Tracking ID: Not reported  
Assessing Agency: Not reported

Facility ID: 3406  
Tank Status: Removed  
Install Date: 4/22/74 0:00:00  
Capacity: 10000

Tank ID: 3  
Tank Use: Not reported  
Last Used: 10/10/88 0:00:00  
Leak: 0

Facility Phone: Not reported  
Owner: MORSE CUTTING TOOLS  
Owner Address: 163 PLEASANT ST.  
NEW BEDFORD, MA 02742  
BRISTOL County

Owner Phone: Not reported  
Serial Num: Not reported  
Aboveground: No  
Contents: Not reported  
Hazardous: No  
CERCLA Num: Not reported  
Case Num: Not reported  
Lined Tank: No  
Excavation Liner: No  
Pipe Repaired: No  
Pipe Repair Date: Not reported  
Gravity Feed: No  
Manuf Certified: No  
Engineer Inspect: No  
Install Checklists: No

Implement Certif: No  
Implement Insp: No  
Other Method: Not reported

Tank Material: Bare Steel  
Tank Contents: Not reported  
Pipe Material: Not reported  
Pipe Contents: Not reported  
Tank Leak Detect: Not reported  
Pipe Leak Detect: Not reported  
Tank Notes: Not reported  
Pipe Notes: Not reported  
Tight Test Date: Not reported  
Inventory Control: Not reported  
Cath Prot Test: Not reported  
Date Removed: Not reported  
Piping Status: Not reported  
527 CMR 9.00: No  
DEP Notified: No

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation    Site

Database(s)    EDR ID Number  
 EPA ID Number

**MORSE CUTTING TOOLS (Continued)**

1000378887

DEP Tracking ID: Not reported  
 Assessing Agency: Not reported

**9**  
 South  
 1/2-1  
 3251  
 Higher

**FURNITURE CITY**  
 127 W. RODNEY FRENCH BLVD  
 NEW BEDFORD, MA 02720

SHWS

S101856610  
 N/A

SHWS:

Facility ID: 4-0000675  
 Facility Status: RAO  
 Site Product: PETROLEUM  
 Initiating Agency: SAB  
 Pub Involvement: Not reported  
 REQ Type: Not reported  
 Date Confirmed: 07/15/1989  
 Date Listed: Not reported  
 ERB Number: Not reported  
 Action Taken: Not reported

Current Status: PHASE 1 C  
 Site Status: CONFIRMED  
 Site Type: 21E  
 Action Taken by: RP ONLY  
 LTBI Listing Date: 04/15/1989  
 REQ Due: Not reported  
 Date Deleted: Not reported  
 Region: Southeast  
 EPA Number: Not reported

**10**  
 NNW  
 1/2-1  
 4919  
 Higher

**NEW BEDFORD GAS & EDISON LIGHT CO.**  
 230 SOUTH WATER ST.  
 NEW BEDFORD, MA 02740

Coal Gas

G000000294  
 N/A

COAL GAS SITE DESCRIPTION:

Site is on the eastern side of South Water, north of Coffin St. Site is east of the end of Madison. Site continued south of Coffin at 300 S. Water St. This area was primarily storage.

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ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
FAIRHAVEN	1000381186	MARSH ISLAND	ADJACENT TO RTE. 195 OVERPASS	02719	CERC-NFRAP, SHWS	4-0000070
FAIRHAVEN	S100361204	RIVERSIDE/LOTS 33-36; 53-55	RIVER AVE.	02719	SHWS	4-0000246
NEW BEDFORD	1000353014	RAILROAD DEPOT	ROUTE 18	02719	CERCLIS, SHWS	4-0000118
NEW BEDFORD	S101395167	SULLIVANS LEDGE LANDFILL	RTE 195/RTE 140/HATHAWAY RD		SWF/LF	SL0201.005
NEW BEDFORD	S103250234	MAINLINE TIRE CO.	ATLANTIC MILLS COMPLEX, COGGES		SWF/LF	TI0201.008
NEW BEDFORD	1000308417	FRANCIS PLAYGROUND	COVE ROAD	02740	CERC-NFRAP, SHWS	4-0000856
NEW BEDFORD	U001004842	FRONT ST. PUMP STATION	FRONT ST.	02740	UST	3371
NEW BEDFORD	S100829286	SEWAGE PUMP STATION	HOWARD AVE.	02740	SHWS	4-0000120
NEW BEDFORD	S100829288	SUBSTATIONS/INTERCEPTORS	HOWARD AVE STATION	02740	SHWS	4-0000127
NEW BEDFORD	1000335359	EXXON CO U S A	1097 KEMPTON RD RTE 6	02740	RCRIS-SQG, FINDS	
NEW BEDFORD	S100423522	NEW BEDFORD LANDFILL	LIBERTY ST		SWF/LF	SL0201.004
NEW BEDFORD	S100829276	FISH ISLAND	NEW BEDFORD HARBOR/RTE 6	02740	SHWS	4-0000854
NEW BEDFORD	S100361794	TELEDYNE/BRITTANY DYE	E. RODNEY FRENCH BLVD	02740	SHWS	4-0000129
NEW BEDFORD	S100829278	ISOTRONICS	SAMUEL BARNET BLVD	02740	SHWS	4-0000780
NEW BEDFORD	1000178455	US COAST GUARD BIBB	STATE PIER	02740	FINDS, RCRIS-LQG	
NEW BEDFORD	S100361768	BRISTOL MILL LOT	WASHBURN/COGGES/BELLEVILLE	02740	SHWS	4-0000243
NEW BEDFORD	1000178456	US COAST GUARD CUTTER	WMEC 909 STATE PIER	02740	RCRIS-SQG, FINDS	

## GEOCHECK VERSION 2.1 ADDENDUM GROUNDWATER FLOW INFORMATION

Map ID  
Direction  
Distance  
Elevation

Site

<b>1g</b> <b>NNW</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0001168 Groundwater Flow: NE Shallowest Water Table Depth: 2.5 Deepest Water Table Depth: 13.5 Date: 2/1996
<b>2g</b> <b>NNE</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0000337 Groundwater Flow: W Shallowest Water Table Depth: 95.40 Deepest Water Table Depth: 93.54 Date: 2/1987
<b>3g</b> <b>NNE</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0000377 Groundwater Flow: Not Reported Shallowest Water Table Depth: 95.40 Deepest Water Table Depth: 93.54 Date: 5/1989
<b>4g</b> <b>WNW</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0001284 Groundwater Flow: S Shallowest Water Table Depth: 8.60 Deepest Water Table Depth: 9.80 Date: 11/1992
<b>5g</b> <b>WNW</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0001284 Groundwater Flow: Not Reported Shallowest Water Table Depth: 8.60 Deepest Water Table Depth: 9.80 Date: 11/1992
<b>7g</b> <b>NE</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0000785 Groundwater Flow: VARIES Shallowest Water Table Depth: 6.4 Deepest Water Table Depth: 7.9 Date: 8/15/1989
<b>8g</b> <b>WNW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: 4-0000119 Groundwater Flow: NOT REPORTED Shallowest Water Table Depth: 7.1 Deepest Water Table Depth: 8.4 Date: 10/10/1985
<b>9g</b> <b>NW</b> <b>1/8 - 1/4 Mile</b> <b>Lower</b>	Site ID: 4-0000485 Groundwater Flow: VARIES Shallowest Water Table Depth: 5.5 Deepest Water Table Depth: 7 Date: 4/11/1991
<b>10g</b> <b>WSW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: 4-0000688 Groundwater Flow: VARIES Shallowest Water Table Depth: 6.64 Deepest Water Table Depth: 15.63 Date: 7/10/1991

# GEOCHECK VERSION 2.1

## GROUNDWATER FLOW INFORMATION

Map ID  
Direction  
Distance  
Elevation

Site

<b>11g</b> <b>WSW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: 4-0000688 Groundwater Flow: Not Reported Shallowest Water Table Depth: 6.64 Deepest Water Table Depth: 15.63 Date: 6/11/1992
<b>12g</b> <b>SW</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0000217 Groundwater Flow: Not Reported Shallowest Water Table Depth: 5.58 Deepest Water Table Depth: 10.40 Date: 2/1991
<b>13g</b> <b>SW</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID: 4-0000217 Groundwater Flow: SW Shallowest Water Table Depth: 5.58 Deepest Water Table Depth: 10.40 Date: 9/1988

The following regulatory files were reviewed by a member of EDR's professional field research team in an effort to identify groundwater flow direction and depth information. However, this information was not evident in the reports. This may be for a number of reasons, such as groundwater monitoring wells not being part of the field work or groundwater not having been encountered during drilling. This information is provided to save you time and money in the conduct of your hydrogeological research.

<u>Map ID</u>	<u>Date</u>	<u>Type Of Report</u>
6g	10/22/1997	Technical Memorandum Remedial Alternatives Screeni

**GEOCHECK VERSION 2.1**  
**FEDERAL DATABASE WELL INFORMATION**

Well Closest to Target Property (Northern Quadrant)

**BASIC WELL DATA**

Site ID:	413739070553101	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1905	County:	Bristol
Altitude:	22.00 ft.	State:	Massachusetts
Well Depth:	225.00 ft.	Topographic Setting:	Hillside (slope)
Depth to Water Table:	10.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	11011905	Prim. Use of Water:	Industrial

**LITHOLOGIC DATA**

Geologic Age ID (Era/System/Series):	Unknown
Principal Lithology of Unit:	Not Reported
Further Description:	Not Reported

**WATER LEVEL VARIABILITY**

Not Reported

**GEOCHECK VERSION 2.1  
FEDERAL DATABASE WELL INFORMATION**

Well Closest to Target Property (Eastern Quadrant)

**BASIC WELL DATA**

Site ID:	413811070534101	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1950	County:	Bristol
Altitude:	8.00 ft.	State:	Massachusetts
Well Depth:	10.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	1.00 ft.	Prim. Use of Site:	Test
Date Measured:	01011950	Prim. Use of Water:	Unused

**LITHOLOGIC DATA**

Not Reported

**WATER LEVEL VARIABILITY**

Not Reported

**GEOCHECK VERSION 2.1  
FEDERAL DATABASE WELL INFORMATION**

Well Closest to Target Property (Southern Quadrant)

**BASIC WELL DATA**

Site ID:	413709070545801	Distance from TP:	1/8 - 1/4 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Bristol
Altitude:	5.00 ft.	State:	Massachusetts
Well Depth:	87.00 ft.	Topographic Setting:	Valley flat
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

**LITHOLOGIC DATA**

Geologic Age ID (Era/System/Series):	Unknown
Principal Lithology of Unit:	Not Reported
Further Description:	Not Reported

**WATER LEVEL VARIABILITY**

Not Reported

**GEOCHECK VERSION 2.1  
FEDERAL DATABASE WELL INFORMATION**

Well Closest to Target Property (Western Quadrant)

**BASIC WELL DATA**

Site ID:	413735070554201	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1925	County:	Bristol
Altitude:	40.00 ft.	State:	Massachusetts
Well Depth:	146.00 ft.	Topographic Setting:	Hillside (slope)
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

**LITHOLOGIC DATA**

Geologic Age ID (Era/System/Series):	Unknown
Principal Lithology of Unit:	Not Reported
Further Description:	Not Reported

**WATER LEVEL VARIABILITY**

Not Reported

**GEOCHECK VERSION 2.1**  
**PUBLIC WATER SUPPLY SYSTEM INFORMATION**

Searched by Nearest PWS.

**PWS SUMMARY:**

PWS ID:	MA4094003	PWS Status:	Active	Distance from TP:	1 - 2 Miles
Date Initiated:	April / 1993	Date Deactivated:	Not Reported	Dir relative to TP:	North
PWS Name:	SHAWS COVE IMPROVEMENT ASSN. SHAWS COVE FAIRHAVEN, MA 02719				

Addressee / Facility:	Mailing SHAWS COVE IMPROVEMENT ASSN. 270 ALLEN STREET NEW BEDFORD, MA 02740
-----------------------	--

Facility Latitude:	41 38 15	Facility Longitude:	070 54 15
City Served:	Not Reported		
Treatment Class:	Untreated	Population Served:	Under 101 Persons

PWS currently has or has had major violation(s): No

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MA SPILLS: Historical Spill List

Source: Department of Environmental Protection

Telephone: 617-292-5720

This list includes sudden releases reported to DEP from the mid-1980's through September 30, 1993. This list has been archived and will not undergo further updates. At the vast majority of releases on this list, response actions have been completed and the case is no longer active.

Date of Government Version: 09/30/93

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/29/94

Date of Next Scheduled EDR Contact: N/A

## Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

**Former Manufactured Gas (Coal Gas) Sites:** The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

## Disclaimer Provided by Real Property Scan, Inc.

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## DELISTED NPL: NPL Deletions

Source: EPA

Telephone: 703-603-8769

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/19/99

Date Made Active at EDR: 02/19/99

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/08/99

Elapsed ASTM days: 11

Date of Last EDR Contact: 02/08/99

## NFRAP: No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 11/10/98

Date Made Active at EDR: 01/29/99

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/29/98

Elapsed ASTM days: 31

Date of Last EDR Contact: 03/03/99

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

## **PWS ENF: Public Water Systems Violation and Enforcement Data**

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

**Area Radon Information:** The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

**EPA Radon Zones:** Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

**Oil/Gas Pipelines/Electrical Transmission Lines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

**USGS Water Wells:** In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1996 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI: National Wetlands Inventory.** This data, available in select counties across the country, was obtained by EDR in March 1997 from the U.S. Fish and Wildlife Service.

**Epicenters:** World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

**Water Dams:** National Inventory of Dams

Source: Federal Emergency Management Agency

Telephone: 202-646-2801

National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

## **Massachusetts Geographic Information System (MassGIS) Datalayers**

Source: Executive Office of Environmental Affairs

**Community Public Water Supplies Datalayer:** Data was compiled by the DEP Division of Water Supply and contains 1435 public community water supplies as defined in 310 CMR 22.00. Both groundwater and surface water supplies are included. As stated in 310 CMR 22.00, a Community Water Supply is part of a community water system "which serves at least fifteen (15) service connections used by year-round residents".

**Areas of Critical Environmental Concern Datalayer:** The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**EPA Designated Sole Source Aquifers Datalayer:** The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by a EPA hydrogeologist.

**Aquifers Datalayer:** MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

**DEP Approved Zone IIs Datalayer:** The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is "that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary)." These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.

- Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line.
- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.
- Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

### **AQUIFLOW™ Information System**

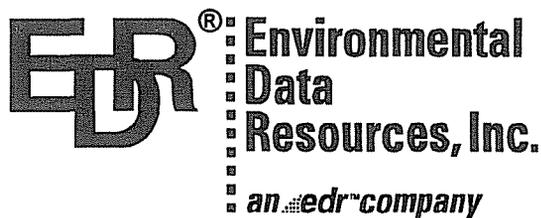
Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.



APPENDIX B  
HISTORICAL SANBORN MAPS

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"Linking Technology with Tradition"

## Sanborn™ Map Report

**Ship to:** Neil Thurber

Metcalf & Eddy, Inc.

30 Harvard Mill Square

Wakefield, MA 01880

**Order Date:** 4/15/1999

**Completion Date:** 04/16/1999

**Inquiry #:** 359293.2S

**P.O. #:** 020655-0002-001

**Site Name:** Standard Times Field

**Address:** Front Street/Blackmer Street

**City/State:** New Bedford, MA 02740

1241585KJG

781-246-5200

**Cross Streets:**

Based on client-supplied information, fire insurance maps for the following years were identified

1888 - 1 - map    1995 - 2 - maps  
1893 - 1 - map  
1906 - 2 - maps  
1924 - 2 - maps  
1950 - 2 - maps  
1990 - 2 - maps  
1992 - 2 - maps  
1993 - 2 - maps

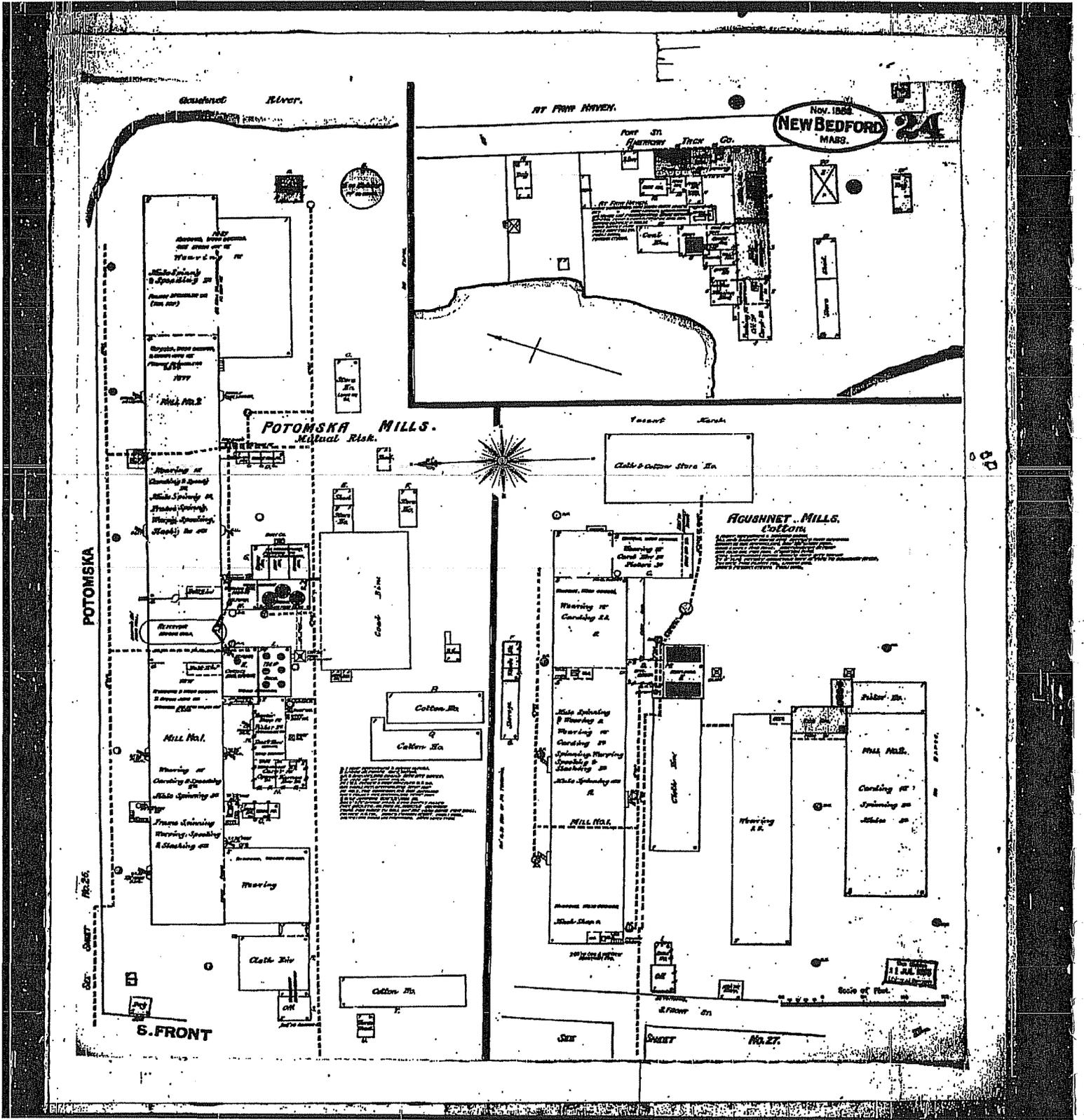
Total Maps: 16

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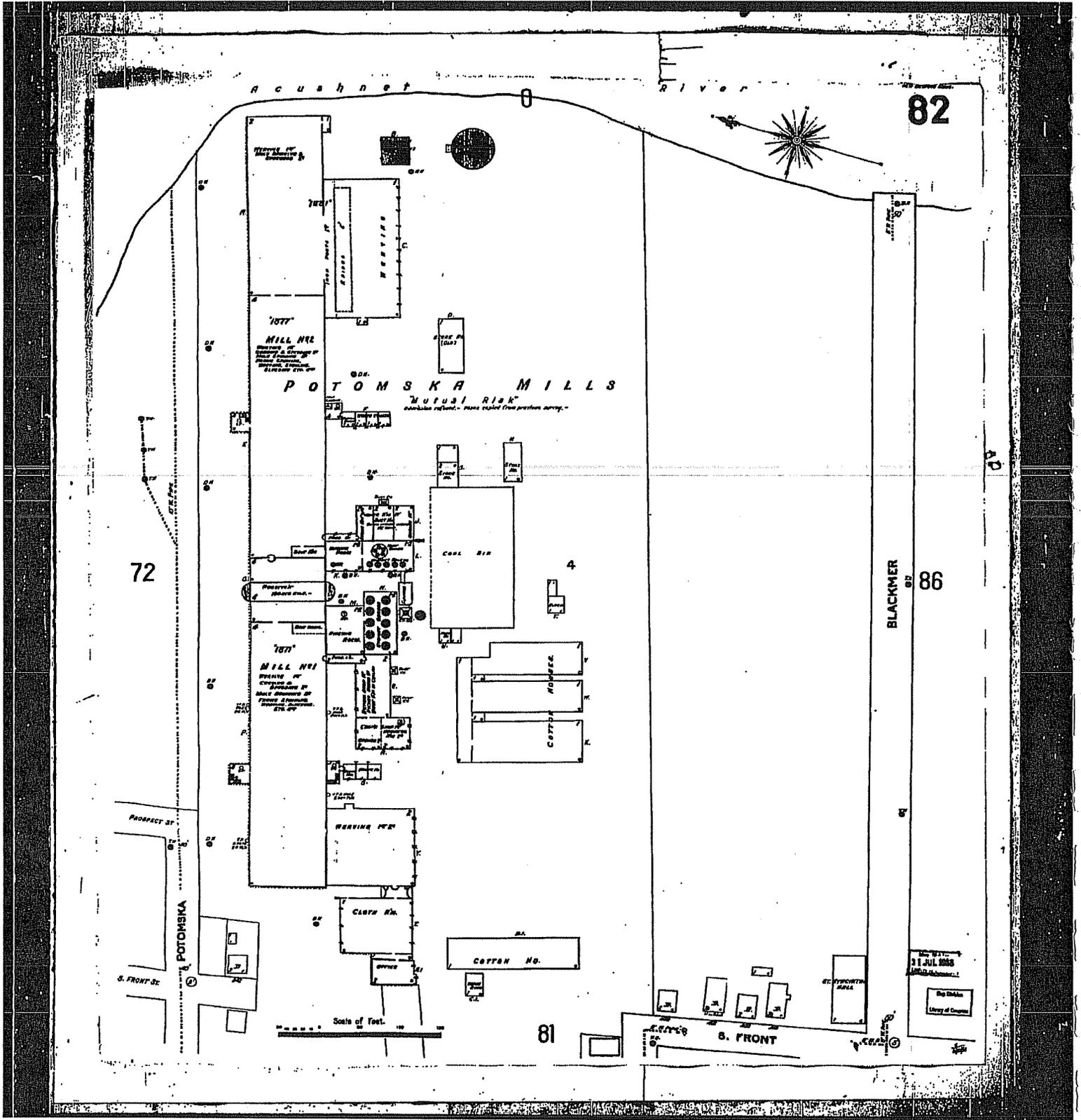
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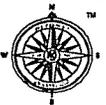
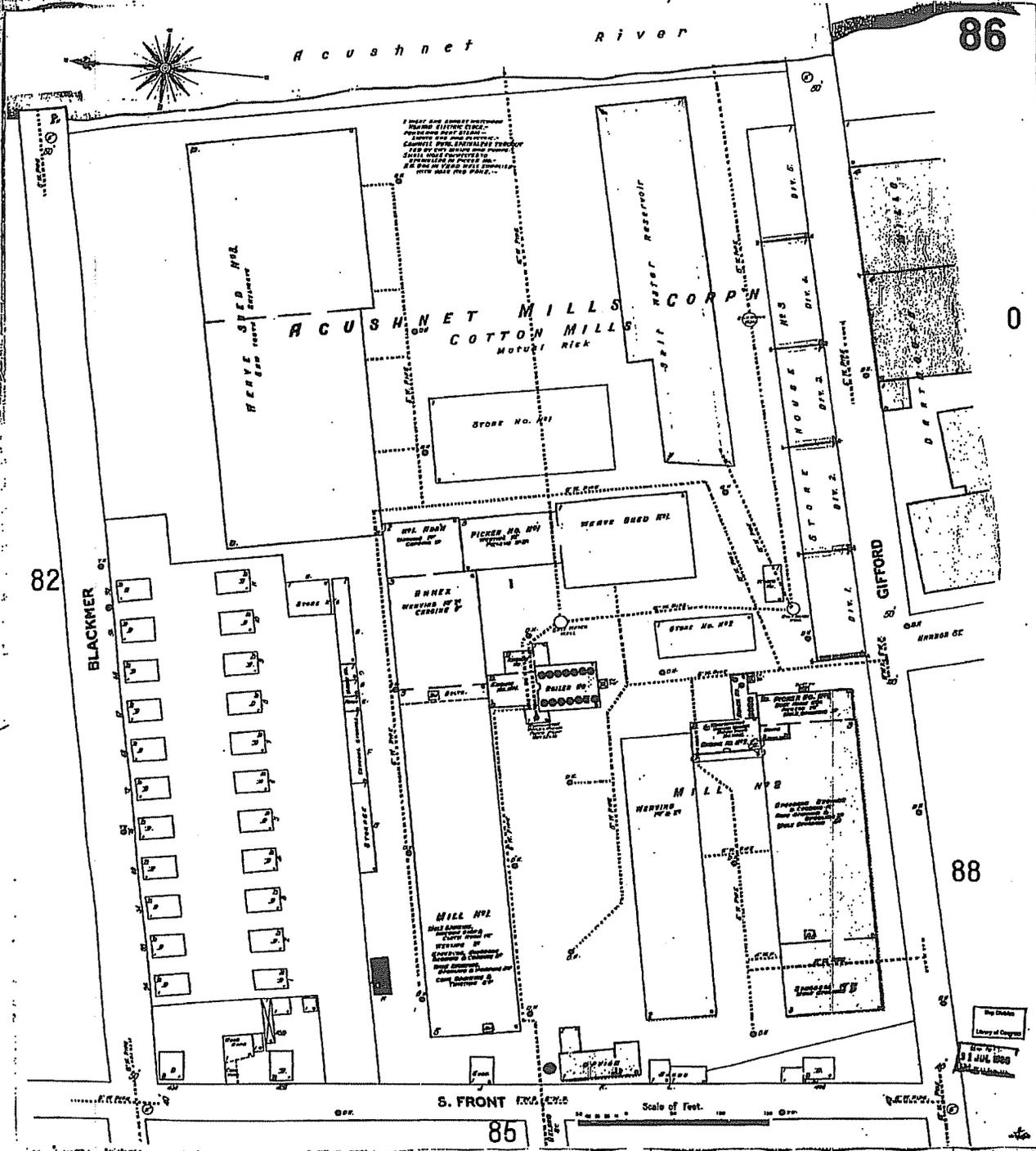


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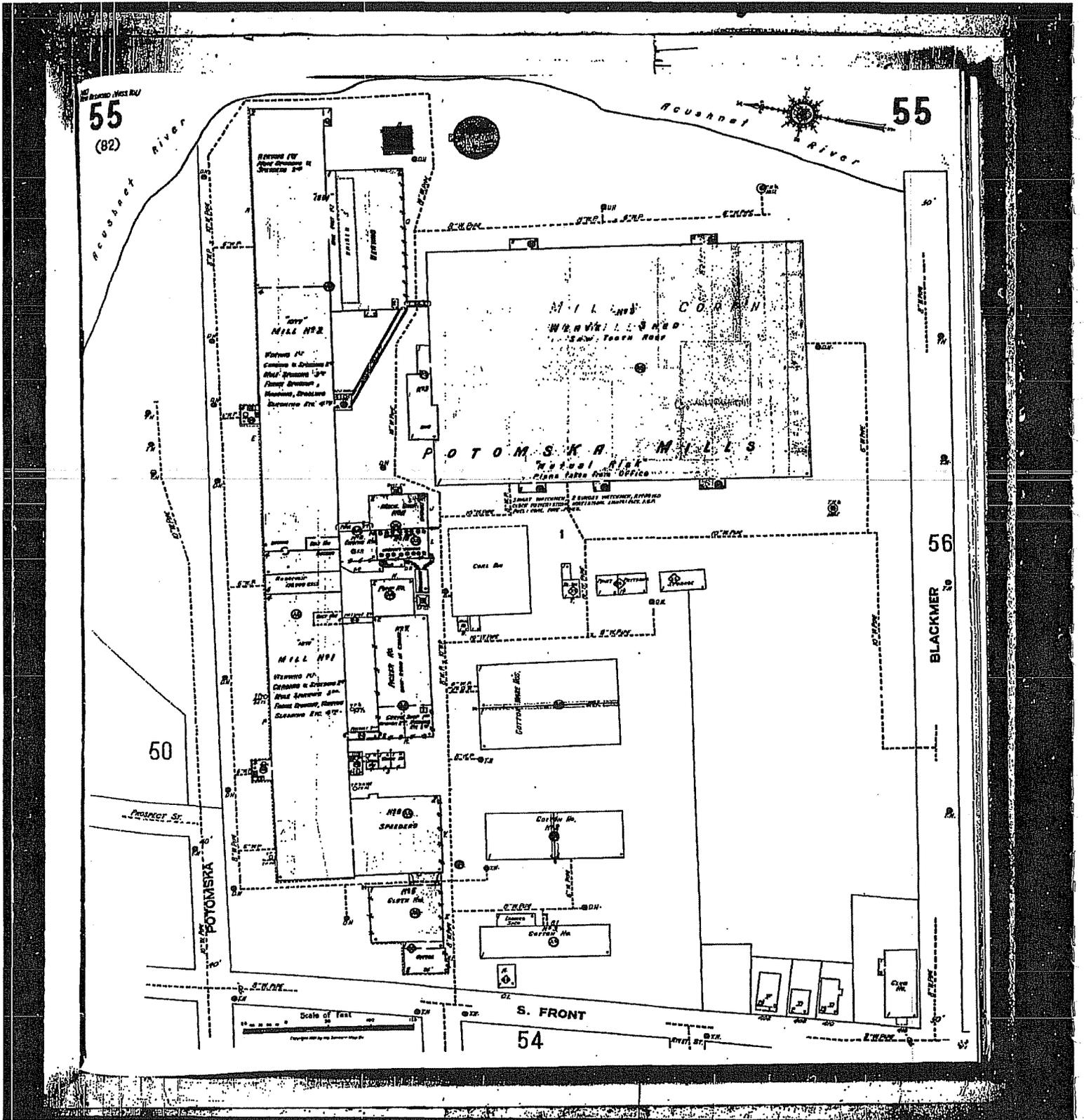


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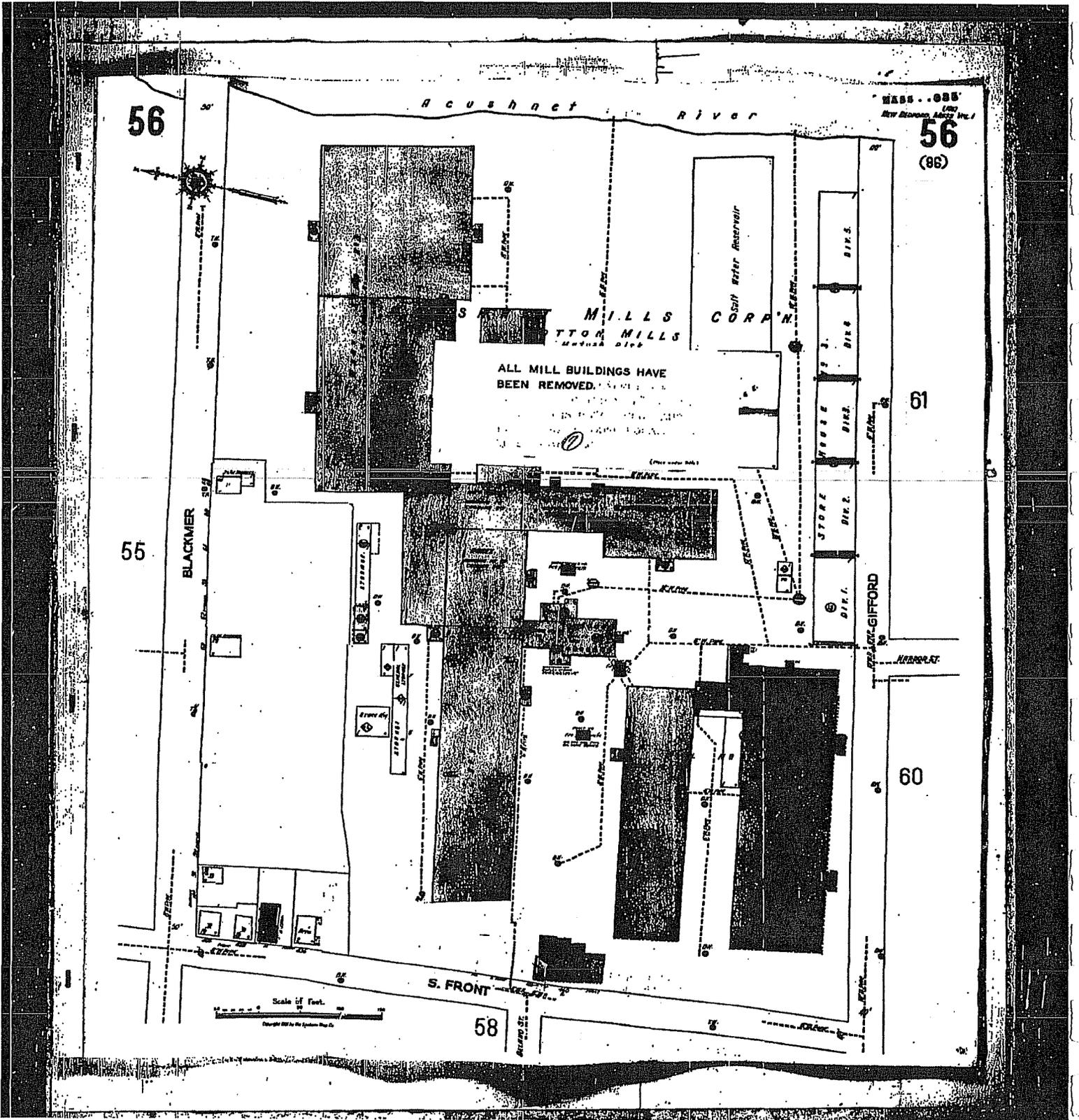
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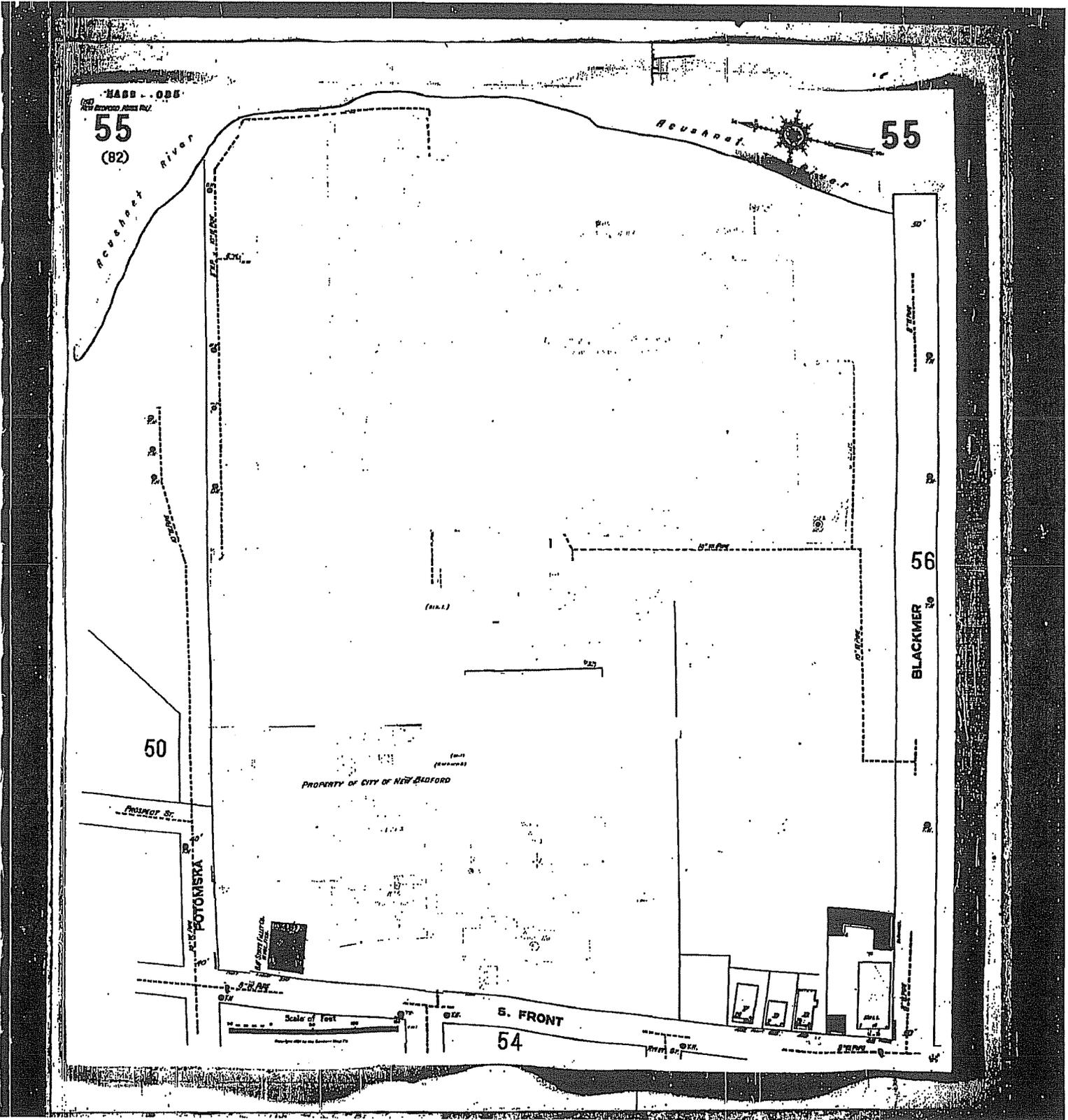


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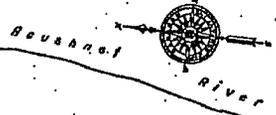
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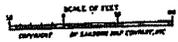
New Bedford West 1/2  
55

Housatonic River



Housatonic River

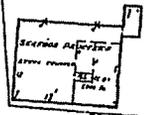
49



MC JEROME DR

S. POTOMSKA

PROPERTY OF CITY OF NEW BEDFORD



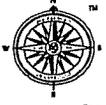
S. FRONT

54

56

BLACKMER

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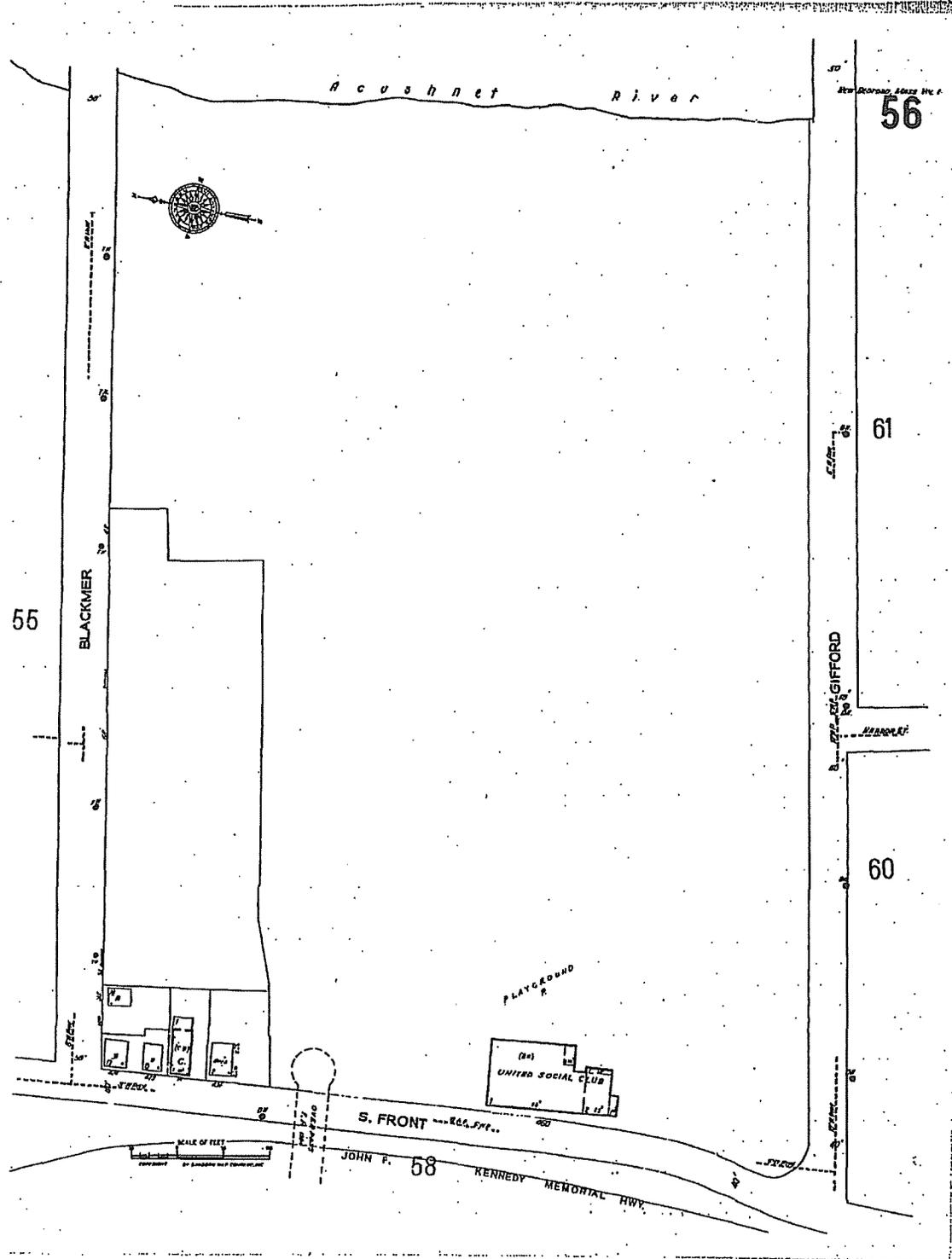


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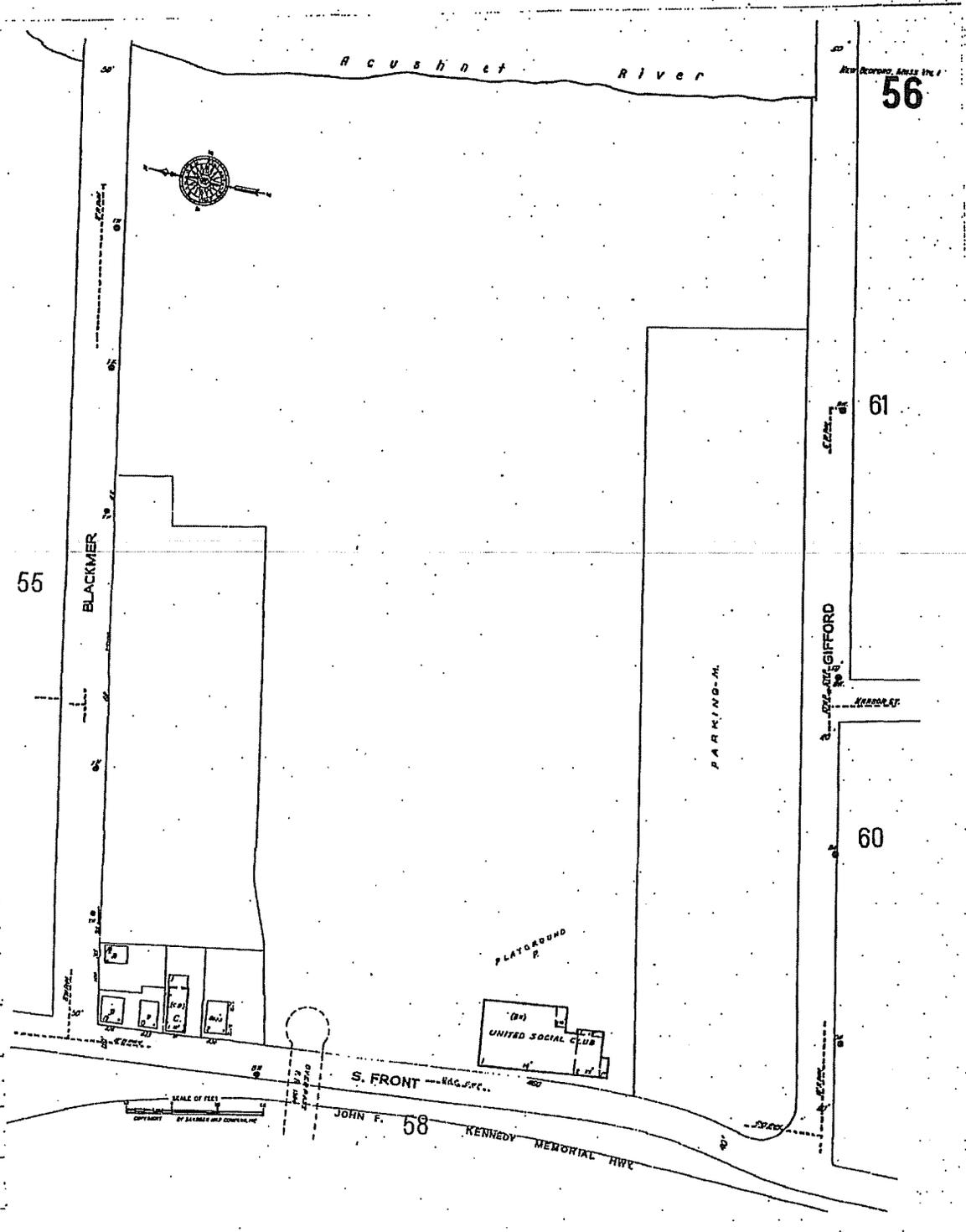


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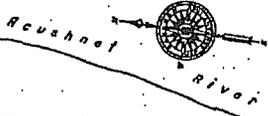
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55

Roughnet River



49



PROPERTY OF CITY OF NEW BEDFORD  
35' x 55' 20" ALSO TOWER

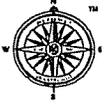
AKC JEFFREY DR  
AKC POTOMSKA



S. FRONT  
54

56  
BLACKMER

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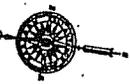
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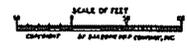
New Standard Atlas No. 55

Housheer River

Housheer River



49

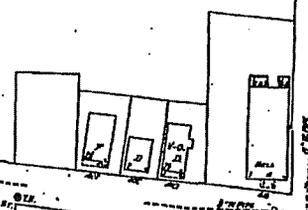


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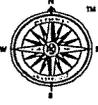
ALICE ANTHONY DR.  
S. 4th POTOMSKA

BLACKMER No. 56

S. FRONT  
54



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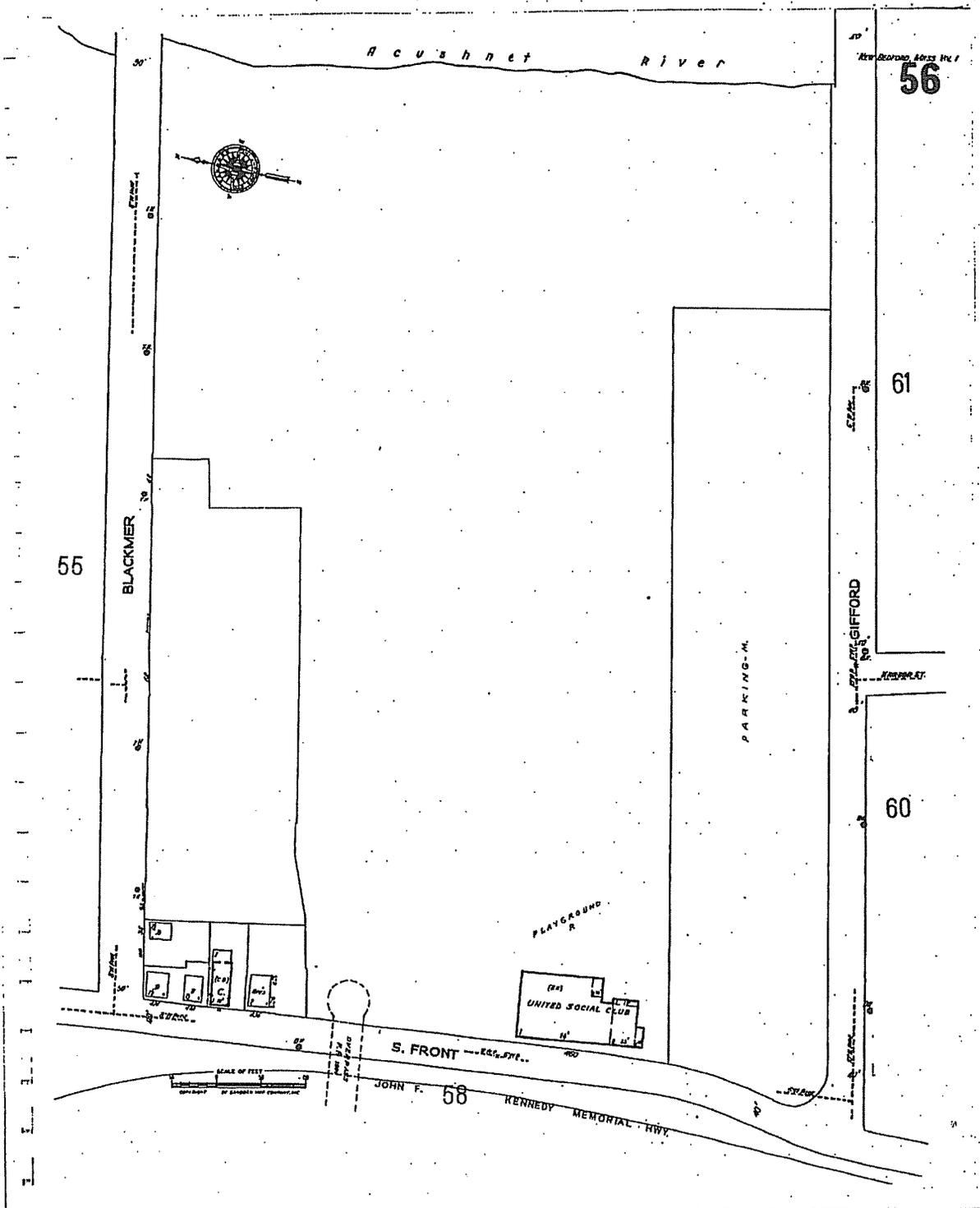


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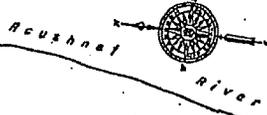
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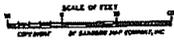
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New Bedford Mass. No. 55

Acushnet River



49



PROPERTY OF CITY OF NEW BEDFORD  
1/2" = 100' SCALE, HAND TOWN

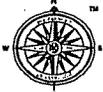
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POTOMSKA

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BLACKMER

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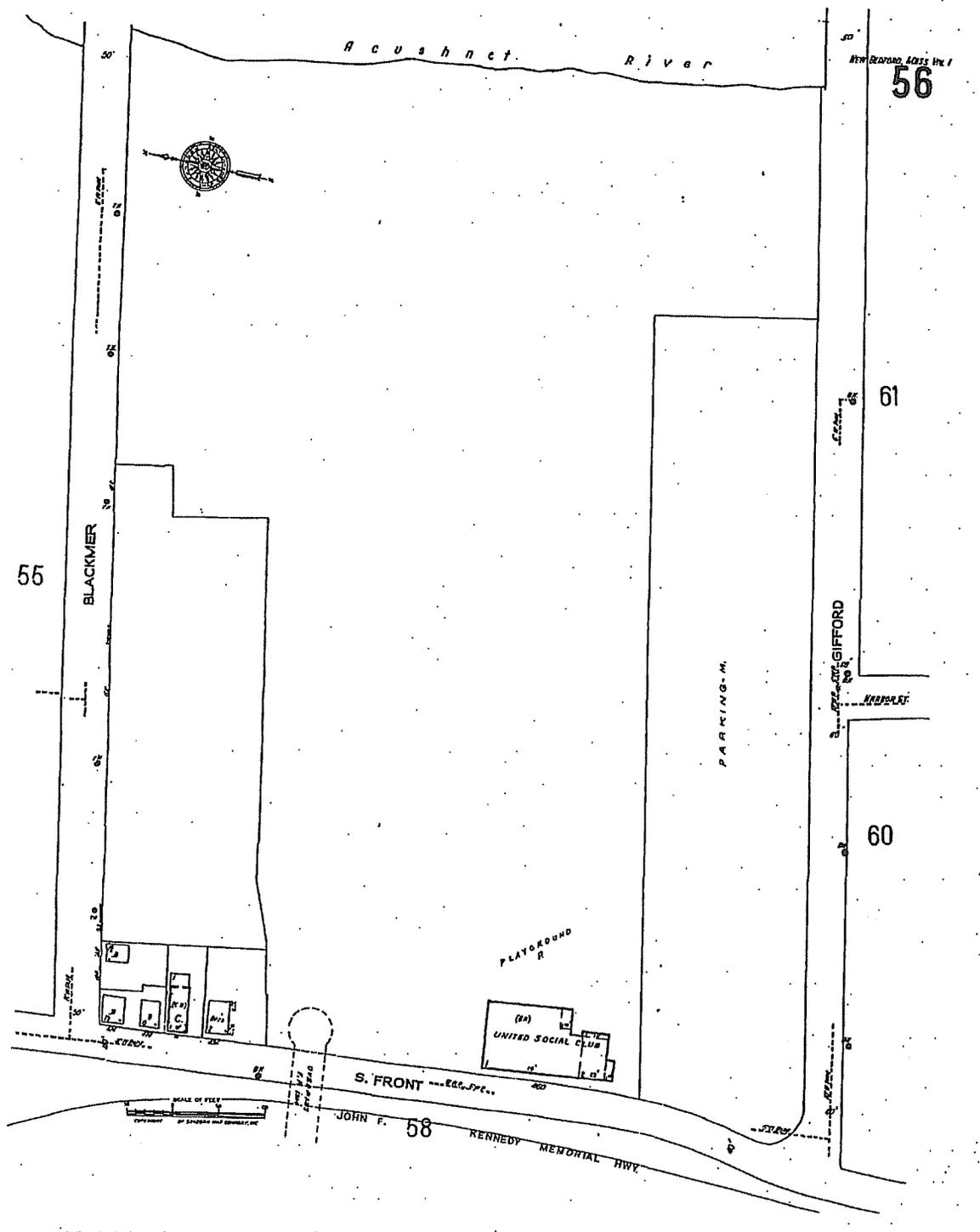


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## APPENDIX C

# HISTORICAL TOPOGRAPHIC MAPS

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Acushnet

NEW BEDFORD

NEW BEDFORD  
HARBOR

Harbor V  
BUZ

38 (NEW BEDFORD SOUTH)  
6867 111 SW

FT. RODMAN 2.2 MI. 340

55'

341

342  
O INTERIOR-GEOLOGICAL





RURAL CEMETERY

NEW BEDFORD

Palmer Island

Fort Phoenix Park

F A I R

Bliss Corner

Redgate Corner

CLARK COVE

SOUTH DARTMOUTH

FORT RODMAN MILITARY RESERVATION

Butler Fla Lighthouse

Ricketsons Pt

Padanaram Breakwater

Light

9

18

24



**AQUA ALLIANCE**

J-020655-0002-006

January 20, 2000

Mr. Jim Byrne  
Brownfields Team  
Work Assignment Manager  
U.S. EPA Region I  
1 Congress Street  
Suite 1100 (HIO)  
Boston, Massachusetts 02114-2023

**Subject: Contract No. 68-W6-0042  
BTSA - Standard Times Field Site  
Work Assignment No. 043-SISI-01ZZ  
Draft BTSA Report**

Dear Mr. Byrne:

Please find enclosed one copy of the draft report for the Standard Times Field site. The report has been prepared in accordance with the Final Field Task Work Plan (September 1999) for the site.

Very truly yours,

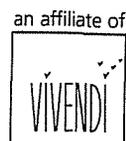
**METCALF & EDDY, INC.**

Barbara Wyskowski  
M&E Work Assignment Manager

enclosure

cc: D. King, EPA (cover letter only)  
S. Alphonse, City of New Bedford  
J. Hobil, MADEP  
C. Hagger, M&E (cover letter only)  
N. Thurber, M&E

**RAC WA#043-SISI-01ZZ (Standard Times Field -- Task 0002) File**  
Metcalf & Eddy  
30 Harvard Mill Square  
P.O. Box 4071  
Wakefield, MA 01880-5371  
Tel: 781 246 5200 Fax: 781 245 6293





**AQUA ALLIANCE**

J-020655-0002-006

January 20, 2000

Mr. Jim Byrne  
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Work Assignment Manager  
U.S. EPA Region I  
1 Congress Street  
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RAC WA#043-SISI-01ZZ (Standard Times Field -- Task 0002) File  
Metcalf & Eddy

30 Harvard Mill Square  
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Wakefield, MA 01880-5371  
Tel: 781 246 5200 Fax: 781 245 6293



EPA CONTRACT NO. 68-W6-0042  
EPA WORK ASSIGNMENT NO. 043-SISI-01ZZ

EPA Project Officer: Diana King  
EPA Work Assignment Manager: Jim Byrne

**BROWNFIELDS TARGETED SITE ASSESSMENT**  
***DRAFT REPORT***

**STANDARD TIMES FIELD**  
**NEW BEDFORD, MASSACHUSETTS**

**January 2000**

*Prepared By:*

*Metcalf & Eddy*  
*30 Harvard Mill Square*  
*Wakefield, Massachusetts*



EPA CONTRACT NO. 68-W6-0042  
EPA WORK ASSIGNMENT NO. 043-SISI-01ZZ

EPA Project Officer: Diana King  
EPA Work Assignment Manager: Jim Byrne

**BROWNFIELDS TARGETED SITE ASSESSMENT**  
***DRAFT REPORT***

**STANDARD TIMES FIELD**  
**NEW BEDFORD, MASSACHUSETTS**

**January 2000**

*Prepared By:*

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## **1.0 INTRODUCTION**

The Brownfields Targeted Site Assessment (BTSA) report for the property known as Standard Times Field has been prepared in accordance with Metcalf & Eddy's (M&E's) EPA-approved Final Field Task Work Plan (FTWP; 1999c) for conducting BTSAs under EPA's Response Action Contract (RAC). The Standard Times Field property is located off South Front Street in New Bedford, Massachusetts (Figure 1-1).

The overall objectives of the BTSA for the Standard Times Field property are to:

- 1) assess the types and general extent of contamination on the site
- 2) evaluate the risks posed by the contamination, based on future use/redevelopment options
- 3) develop potential alternatives for cleanup based on future use/redevelopment options
- 4) estimate the costs of implementing the cleanup alternatives

The draft report presents information and conclusions in support of Objectives 1 and 2. A technical memorandum will be prepared to address Objectives 3 and 4. The final BTSA report will combine the draft BTSA report and the Remedial Alternatives/Estimated Costs Technical Memorandum.

The BTSA for the Standard Times Field property was initiated by obtaining and reviewing all reasonably available information that was relevant to an environmental assessment of the site including the site's ownership history, use and operations history, and regulatory history. In addition, pertinent information on surrounding or nearby properties was reviewed. The primary sources of information included the city of New Bedford's BTSA application, record searches/file reviews of the city's municipal offices and the Massachusetts Department of Environmental Protection (MADEP) Lakeville office, an environmental database search of federal and state regulatory agencies, historical topographic maps and Sanborn Fire Insurance maps, and several environmental reports on the site and nearby properties. The information was summarized in a Background Summary Memorandum (M&E, 1999a) prepared for the site and is presented in this report where appropriate.

The information provided herein is designed to meet the objectives of the BTSA developed for the site (Section 2.7). No portion of the site is currently listed as a waste site under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E); however, the information presented in the report incorporates many of the requirements of a Phase I report as defined under 310 CMR 40.0483.

## **2.0 SITE INFORMATION AND OBJECTIVES**

Information presented in this section is largely summarized from the Background Summary Memorandum (M&E, 1999a) prepared for the site. Field observations made by M&E during site

visits and field work as well as information obtained through conversations with city personnel are also included.

## **2.1 Location**

The Standard Times Field property is located in the city of New Bedford (Figure 2-1), off South Front Street, and is bordered by parking areas parallel to Gifford Street to the south, and the Acushnet River to the east. New Bedford Radio, Inc. and various commercial properties border the site to the north. Residential and commercial properties along South Front Street border the site along the western boundary. The site is approximately 25.5 acres in size. The site coordinates are 41°37'16.0"11 latitude and 70°55'3.7" longitude.

## **2.2 Site Description and Use**

The site is currently owned by the city of New Bedford. It is primarily vacant, and there are no current formal operations or uses conducted on the property. The city is currently overseeing the development of the property into a 10-lot subdivision intended for future use as a marine-related industrial area.

Former use of the site included mill work during a period between the 1880s to 1930s. From the 1930s to 1940s, the site was owned by the city of New Bedford. During this period there are no records of use; however, the mill buildings had been demolished, likely sometime between 1923 and 1935. The site was owned by E. Anthony & Sons, Inc. from 1946 to 1966. The only record of use during that time was by the U.S. Army Corps of Engineers in 1963, who used the site as a staging area for the construction of the hurricane barrier in the Acushnet River. There were several owners from the late 1960s up to 1998, when the city of New Bedford became the current owner. There are no records of site use during the period prior to city acquisition.

## **2.3 Site Features and Utilities**

Site features that are relevant to the BTSA are shown in Figure 2-1. Historical Sanborn Fire Insurance maps dated 1888 through 1924 indicate mill structures and associated uses at the site. Of particular interest, these older maps show a "gas holder" and an associated building (that may have been part of a coal gasification plant) in the northeast corner of the site, a transformer in the south section, a coal bin along the northern site boundary, and a 150,000-gallon buried fuel tank in the southeast corner of the site (in the vicinity of the current baseball field). There are no records of the buried tank being removed or abandoned. The Sanborn map for 1950 indicates that the numerous mill buildings and coal bin that occupied most of the site had been removed by that time, although no records of the removal of the building structures were located. Since the 1950s, Sanborn maps and city records indicate that there have not been any permanent structures on the site and that the property has remained undeveloped open area.

As part of the subdivision development, the city is in the process of extending Blackmer Street towards the river and constructing a smaller cul-de-sac road (Silva Street) off the Blackmer Street extension. The city is installing utilities, including new storm water and sewage lines and underground electrical service, along these roads. Existing storm water and sewer lines cross the center of the site from west to east, extending from Blackmer Street towards the Acushnet River. According to historical information, another storm water line extends along the northern boundary of the site.

Early mill plans (New Bedford, 2000) indicate that there were a number of saltwater wells on the site; however, no physical evidence of the wells was mentioned in previous reports or was observed by M&E.

#### **2.4 Current Site Conditions**

As stated in Section 2.2, the vacant site has been an undeveloped open area since the 1930s. The current site conditions described in this section are based on observations made by M&E personnel during the May 26, 1999 site visit and field work in the fall of 1999. Through the spring and early fall of 1999, prior to the start of on-site construction, the central and southern portions of the site were relatively flat. The central section of the site is an area of compacted sand and gravel, used as a staging area for equipment and materials by the city. Unpaved roads provided vehicular access to the center of the site and to other areas of the site. The baseball field in the southwest section of the site appears to be regularly maintained.

The south-southeastern section of the site was characterized by tall, thick growths of grasses and shrubs. Ponded water and thick wetland vegetation (primarily reeds) were observed in this area. At the southeastern corner, the topography rises and a dirt bike track with evidence of recent use was observed. Just to the northeast of the dirt track, there was a circular burned area approximately 15 to 20 feet in diameter with tires and empty automotive/boat fuel tanks.

A sandy beach (50- to 100-foot wide at the time of the site visit) marks the eastern site boundary along the Acushnet River. There was a drop-off between the land surface and the sandy beach, ranging from 1 foot to over 8 feet in some places.

In the northern portion of the site, the surface is very irregular and rough, with evidence of extensive alteration over the years. In this section, mounds and ditches have been created by large piles of excavated earth and large boulders. Some of the earthen mounds were intermixed with concrete, building demolition remains (brick, roofing shingles, tile), and asphalt debris along with tires, metal, and municipal rubbish. Mounds in the central north section of the site appeared to be relatively recent, while older mounds in the more northern and northeast sections of the site were overgrown with well-established wooded areas, thick scrub brush, and tall vegetation.

In the northeastern corner of the site, one small area of stressed vegetation was observed. Stained gravel, coal ash, and capacitor debris was noted in the area. In addition, an area with stressed

vegetation was noted just north of the northeast corner boundary, near the areas where the alleged gas machine and gas holder were former located.

Construction for preparation of the subdivision was on-going through the fall, when M&E conducted field work. As a result, the terrain in the central and southern portions of the site changed from conditions observed in spring and early fall 1999. Further changes in terrain are expected as work on the subdivision proceeds and the lots are sold to private owners.

The city does not currently store or allow the storage of any hazardous materials at the site. Asbestos-containing materials and lead-based paint may have been used at one time within the mill buildings. Visual observations made during the site visit noted the possible presence of these constituents in debris piles located across the site and on the ground surface.

## **2.5 Summary of Previous Environmental Assessments**

Several limited environmental assessments have been conducted on the site. Additional details can be found in the Background Summary Memorandum (M&E, 1999a). The results of the assessments are summarized in this section. It should be noted that the boundaries defining the property for previous investigations were slightly larger than the site is currently defined.

A 21E Environmental Assessment conducted by (Kurz, 1986) consisted of a file review, site visit, and limited soil and groundwater sampling across the Standard Times Field property. The subsurface investigation included 20 test pits from which selected soil and groundwater samples were analyzed for volatile organic compounds (VOCs), PCBs, and oil and grease content. Two soil samples indicated the presence of relatively low levels of PCBs (0.8 and 1.9 ppm), and two soil samples indicated the presence of oil and grease (3,490 ppm and 7,070 ppm). The PCBs that were detected were encountered near the radio tower on the property bordering the site to the west. No VOCs were detected in grab groundwater samples collected from test pits.

An assessment was conducted near the southwest corner of the site, in the vicinity of the baseball field and basketball court (NUS, 1989). The study was limited to a records search and site observations. No samples were collected or analyzed.

In 1991 and 1993, further environmental assessments of the site were performed (GZA, 1991 and 1993). Soil and groundwater samples collected from test pits in 1991 and 1993 were analyzed for VOCs. The soil samples were also analyzed for PCBs and petroleum hydrocarbons. Two of the soil samples were collected close to the locations where PCBs were previously found by Kurz (1986). The analyses did not report PCBs in soil, but did confirm the presence of petroleum hydrocarbons (fuel oil and asphalt). During the 1993 assessment, piles of construction debris, concrete and asphalt were observed to be randomly scattered across the site. In addition, municipal rubbish dumping along roadways was observed.

## 2.6 Adjacent Properties

Several adjacent properties were discovered to have previous releases of oil and hazardous materials. In particular, releases of oil from leaking underground storage tanks were reported for two nearby (almost adjacent) properties: Mutual Oil Station at 56 Potomska Street and Southeast Transit Authority (STA) at 65 Potomska Street. These properties are both located near the northwest corner of the site.

The Mutual Service Station is located within approximately 600 feet of the northwest corner of the site (across South Front Street) and has operated as a fuel service station since 1968. Several underground storage tanks (USTs) have been placed and replaced on this property, including gasoline, unleaded gasoline, diesel, and kerosene tanks. In 1989, the MADEP issued a Notice of Responsibility to Mutual for the release of oil and hazardous materials (leaking gasoline UST) on the property. The presence of separate-phase product was reported in groundwater monitoring wells on the property in 1990. A groundwater treatment and soil vapor extraction remediation system was installed in 1993 and was operated into 1996. According to a Response Action Outcome (RAO) dated June 1996, data from the site indicate a trend of lower contaminant concentrations. Oil and hazardous material concentrations in the groundwater were below MCP Method 1 GW-2 levels. The RAO indicated that the site conditions met a level of No Significant Risk in accordance with the MCP. The likely flow of groundwater from this property is in a southeast direction, towards the Standard Times Field site and the Acushnet River.

The STA is located within approximately 900 feet of the northwest corner of the site. The MADEP files reported that soil contamination was observed at the STA location in 1988 during the removal of USTs (gasoline, diesel fuel, and motor oil). Sampling and analyses indicated the presence of petroleum hydrocarbons in soil and groundwater from the former tank locations. An undocumented amount of soil was removed from the property. A Notice of Responsibility was issued to STA by the MADEP in March of 1998 indicating the need to address the presence of separate phase product in the groundwater. Approximately 1,000 tons of additional contaminated soil was removed from the STA location in 1998.

## 2.7 Site-Specific Objectives

The primary objectives and technical approach for the BTSA at Standard Times Field were developed based on review of available site and background information, along with observations and information gathered during the May 26, 1999 site visit and in discussions with EPA and the city and MADEP Points-of-Contact (POCs) for the site. The purpose of the BTSA was to conduct a site investigation to determine the nature of contamination at the site, and to a limited degree, evaluate the extent of contamination. In general, the site investigation was focused towards known or suspected contamination source areas and areas where the potential exists for the greatest risks to be posed based on the proposed future use/redevelopment of the site (Section 2.2). Field and analytical data were collected to provide limited information with respect to hydrogeologic conditions, to supplement existing site information from previous environmental assessments, and

to support characterization of risk and development of cleanup alternatives and cost estimates. At the request of the city, risks have also been assessed for soil by subdivision lot. However, delineation of the full extent of contamination, or a detailed risk assessment and alternatives evaluation, were not within the scope of work that was conducted. The technical approach, which is detailed in the Final FTWP (M&E, 1999c) developed for the site, was conducted in coordination with MCP guidance where feasible.

### 3.0 SITE INVESTIGATION

This section summarizes the field investigation that was conducted at the site by M&E in the fall of 1999 and discusses the findings of the investigation. Information from previous environmental studies on the site is incorporated with the findings of this site investigation to provide a more comprehensive understanding of conditions

The primary focus of the field investigation was to collect current information about the environmental condition of the site for use by the city of New Bedford. The field activities were performed in accordance with the M&E FTWP and Generic-BTSA Sampling and Analysis Plan (SAP) for the site (1999c and 1999a, respectively). The field investigation was focused on potential contamination source areas and areas that may pose the greatest risk. The investigations that were conducted, and the specific focus if applicable, were:

- a geophysical survey to locate the possible buried tank in the southwest corner of the site
- test pit excavations to confirm the presence and location of the buried tank (based on geophysical survey data) and to ascertain the approximate location and possible configuration of the former coal bin (near the northern site perimeter, south of the New Bedford Radio Station Tower)
- installation and sampling of four temporary shallow overburden wells (located hydrogeologically downgradient or in potential source areas and screened across the groundwater table)
- surface soil sampling at 11 locations (1 to 2 locations per subdivision lot)

Figure 3-1 presents the field investigation locations. An M&E representative was onsite during all field activities and oversaw subcontractors performing designated field work. Specific details of the different field activities are discussed in the appropriate sections that follow.

Prior to initiating any investigation work, the city POC identified boundary markers for M&E and assisted M&E in locating areas for test pits and surface soil sampling. Lot boundaries were previously marked by city engineers for the on-going construction work. A grading/utility plan for the site (SITEC, 1998) and GPS equipment were used to approximate the boundary locations

not already marked. A backhoe operated by a city employee was used to perform minor clearing and grading to improve access to several areas of investigation.

### **3.1 Geophysical Survey and Test Pit Excavations**

A geophysical survey was conducted in the southwest corner of the site (baseball field in Lot 9) where the 150,000-gallon UST was suspected to be located (Figure 3-1). The survey was conducted on September 28, 1999 by Hager GeoScience, Inc. of Waltham, Massachusetts. A combination of electromagnetic (EM) terrain conductivity and ground penetrating radar (GPR) techniques were used. EM terrain conductivity was used to survey the entire investigation area of approximately 180 by 240 feet. GPR was performed in areas of EM anomalies. The instrumentation and procedures used are detailed in the geophysical report presented in Appendix A.

Preliminary results of the geophysical survey indicated an anomaly that was the possible UST. The geophysical data indicated that the structure consists of concrete with rebar. The final results of the survey are provided in the geophysical report (Appendix A).

On September 29, 1999, the targeted area was excavated using a backhoe operated by the city of New Bedford. Two large test pits, designated Tank 1 and Tank 2, were excavated. The excavation uncovered a cylindrical concrete structure that fits the physical description of the suspected buried tank (New Bedford, 2000). The surface of the concrete structure was located at 1 to 2 feet below grade. The excavation revealed that the structure is at least 6 feet in height. The presence of groundwater at 6 feet below grade interfered with additional excavation to determine the total height of the structure. A hole was discovered at the center of the structure. This hole may have been a former cover or manhole as indicated by the round shape and a partial metal ring. Rebar was evident around this hole. Soil within the hole had a heavy fuel odor, and there was visual evidence of a tar-like substance. A sample of the soil/tar-like substance from within the hole was collected. Laboratory results confirmed the presence of petroleum hydrocarbons. PCBs were not detected in the sample. The groundwater adjacent to the western wall of the structure appeared to have a slight sheen on its surface, although no product was detected using field methods. Subsequent to excavation activities, it was determined that the tank was located just outside of the site boundaries.

A second area was excavated along the northern perimeter of the site to try to locate the former coal bin (Figure 3-1). Two shallow test pits, TP-01 and TP-02, were excavated with a backhoe operated by a city employee on September 27, 1999. The test pits were excavated to the top of groundwater at approximately 6 feet below grade. Physical evidence of coal was observed in the two test pits, from 1- to 2-feet below grade. At this depth, a dark, dry, dense peat-like layer with coal pieces was observed. Concrete rubble was also noted at this depth in TP-02. The top 1 foot of TP-01 and TP-02 consisted of sand intermixed with vegetation, primarily roots. The limits of the coal layer were estimated to be an area of about 100-by-50 feet, adjacent to the property line at Lot 2, south of the radio tower.

Two shallow test pits, TP-03 and TP-04, were excavated in a third area located at the northeastern section of the site, within the limits of the area with stressed vegetation. The upper layers of both test pits included sandy materials from 0 to 2 feet. From 2 to 4 feet, both test pits contained sandy material with debris, which included roofing material, brick, and wood fragments. Some capacitor-like materials were also observed in TP-04. A sulfur-like odor was also noted during excavation of TP-04. Wood planks were observed at the bottom of TP-03, indicating that perhaps a pier or support may have existed in this area at one time.

Upon completion of all excavation activities, the test pits were filled in and leveled to grade. Excavation logs are located in Appendix B.

### **3.2 Surface Soil Sampling**

Eleven surface soil samples were collected with the aid of a city-operated backhoe on September 28, 1999. One sample was collected per lot, with the exception of Lots 3 and 4, where two samples were collected. The surface soil samples are identified with the designation "SS" on Figure 3-1. For the lots where more than one sample was collected, the designation "A" and "B" were added after the location number.

Generally, a sample was collected where visual observations or field screening suggested that a potential contaminant source may exist (Table 3-1). Prior to sample collection, the excavation hole and excavated soil were screened with a photoionization detector (PID) for organic vapors. Headspace screening methods were used for the excavated soil. With the exception of the volatile petroleum hydrocarbon (VPH) fraction, the samples were composited from soil removed directly from the walls of the excavation hole, 0 to 3 feet below grade. The VPH fraction was collected by twisting a pre-weighed syringe directly into the soil, then discharging the contents into a vial pre-filled with methanol. Following collection of the VPH fraction, the remaining sample containers were filled with composited soil. The samples were immediately placed in a cooler with ice, after which the samples were recorded onto a chain-of-custody (CoC) form and submitted for laboratory analysis of the parameters listed in Table 3-2. Surface soil analytical data are presented and discussed in Section 4.4.

In addition, three samples of debris were collected for asbestos analysis in the vicinity of bare soil/stressed vegetation (Figure 3-1), near well location GW-01 and surface soil sample SS-04B on Lot 3. One sample of roofing tar material was collected from a debris pile (comprised mostly of roofing materials and soil). One sample of a transite-type material and one sample of a tile-like material were collected from the ground surface. The transite-type material tested positive for asbestos materials.

### **3.3 Temporary Well Installation, Monitoring, and Sampling**

Four temporary shallow overburden wells were installed and developed on September 29, 1999. The wells are identified with the designation "GW" on Figure 3-1. The wells were drilled and

installed by GeoTek Engineering, Inc. using an Earth Probe 2000 direct-push rig. The holes for the well were advanced with a 1-inch-OD steel rod and point. Once at the desired depth, generally determined by refusal, the rod was removed. Soil was not collected from the resulting borehole for stratigraphy identification or chemical analysis. Table 3-3 summarizes the rationale for location placement of each of the wells.

A 1-inch-OD schedule 40 PVC pipe with continuous-slotted screen (0.010 inch), capped at the bottom end, was carefully lowered into the borehole. The PVC well was gently tapped to the desired depth, cut off level to grade, and capped. A stainless steel flush-mounted lock box was installed over the top of the well for security. Installation details are shown on well installation logs located in Appendix C. It should be noted that GW-01 and GW-04 were installed further from their proposed locations than expected. In both cases, this occurred because refusal was encountered at very shallow depths (2 to 4 feet), despite repeated attempts. As a result, GW-01 was located further southwest and GW-04 was located further east than originally proposed.

Following installation of all four wells, the wells were developed by M&E. Development was accomplished by slowly removing groundwater using low-flow purging methods and recording field parameters (i.e., pH, specific conductance, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity). Only one well volume was removed from two of the wells (GW-01 and GW-04) because of very low recharge rates. Less than one well volume was removed from GW-03.

Groundwater levels were measured and the wells were sampled by M&E the day following installation, September 30, 1999. Groundwater level measurements were taken prior to purging and sampling activities. Measurements were taken from a notch at the top of the well. Groundwater elevations were calculated using survey data and are presented in Table 3-4.

The wells were sampled with peristaltic pumps and dedicated tubing using low-flow sampling procedures. Because of low recharge, the intake end of the tubing was positioned near the bottom of the well. Each well was purged at a slow rate, with regular monitoring of drawdown of the water table and regulation of the flow rate. During purging, the water passed through a YSI Model 610-DM flow-through cell for continuous measurement of pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (Eh), and temperature. Turbidity measurements were taken at regular intervals using a turbidimeter. Minimal purging prior to sampling occurred for most of the wells because of poor recharge. Field parameters were measured again upon completion of sample collection.

Groundwater samples were collected into sample containers directly from the outflow port of the tubing. During sample collection, 40-ml vials used for VPH analysis were filled first and checked to insure that no air bubbles were present. Following collection of the VPH fraction, the remaining sample containers were filled. Sample volume for metals were field filtered (0.45  $\mu\text{m}$ ) at GW-01, GW-02, and GW-04 because turbidities remained greater than 25 NTU after purging. Each sample container was labeled, preserved, and placed in a cooler with ice, after which the

samples were recorded onto a chain-of-custody (CoC) form and submitted for laboratory analysis of the parameters listed in Table 3-2. Upon completion of sampling activities, the wells were abandoned in-place (filled with bentonite).

Upon completion of the sampling effort (and abandonment of the temporary wells), it was realized that two of the wells (GW-02 and GW-04) required re-installation and re-sampling for organic parameters. Re-installation of these wells was completed on November 1, 1999 in the same manner as the initial installation. The re-installed wells are identified with the designation "RE" after the well number. As a result of on-going construction activities at the site, the areas in the vicinity of the original well locations had undergone changes. Where level ground had been, construction materials (e.g., culverts, large concrete drains) and piles of excavated soil and asphalt were now located. The re-installed wells were situated as close to their original locations as possible. On November 2, 1999, the re-installed wells were developed, sampled, and abandoned in-place following the same procedures as the original wells. During the sampling of well GW-02RE, a thin, petroleum-like sheen was detected on the groundwater; however, headspace readings for organic vapors revealed no measurements above background.

Well sampling sheets for each of the wells are located in Appendix D. Groundwater analytical data are presented and discussed in Section 4.4.

### **3.4 Survey for Locations and Elevations**

M&E used GPS field equipment to record relative locations of the test pits, surface soil samples, temporary wells, and additional site features. The positions were recorded on September 29 and 30, 1999 and November 2, 1999. A surveying level and rod were used by M&E to measure elevations at the top of the temporary wells relative to a local datum. The GPS locations were mapped on the Land Plan provided by the SITEC (1998), which serves the base map for all of the site figures in the report.

### **3.5 Analytical Program**

Table 3-5 summarizes the samples submitted for laboratory analysis during the field investigation. Quality control (QC) samples were also taken and submitted for laboratory analysis to monitor and evaluate laboratory and sampling performance. The field QC samples collected, which are also listed on Table 3-5, included trip blanks, field duplicates, matrix spike/matrix spike duplicate samples, and performance evaluation (PE) samples.

Samples were analyzed using a combination of EPA's Contract Laboratory Program (CLP) for Routine Analytical Services (RAS) and directly-subcontracted laboratories. The methodologies selected for analysis of samples by the directly-subcontracted laboratory were consistent with standard EPA or MADEP methods. Samples collected for analysis of organic parameters using RAS methods were submitted to Southwest Laboratory of Broken Arrow, Oklahoma, and samples being analyzed for inorganic parameters using RAS methods were submitted to Sentinel, Inc. of

Huntsville, Alabama. With the exception of the analysis for asbestos containing material (ACM), M&E directly subcontracted the Woods Hole Group of Raynham, Massachusetts to perform all of the remaining analyses. The ACM analysis was performed by Proscience Analytical Services of Woburn, Massachusetts.

M&E conducted a limited QC review/validation of analytical laboratory data in accordance with the EPA-approved FTWP (M&E, 1999c). The review/validation provides an overview of the laboratory and field QC data by identifying potential QC issues and assessing common QC criteria that might affect reporting and usability of the environmental data as well as ensuring that the laboratory has met minimum data acceptance criteria established by M&E. Although the limited review/validation was based on EPA Region I Tier guidelines (U.S. EPA, 1996), it was more limited in scope. The review/validation performed by M&E consisted of completing Tier II-like forms only for applicable criteria parameters, assessing data usability, and summarizing the results in abbreviated Tier II-like memoranda. The validation memoranda are included in Appendix E.

Limited review of the results from the asbestos analysis and the UST soil sample was performed because these data were collected for identification purposes only, and not used for risk characterization. The review memoranda are included in Appendix E.

Data found to be suspect during the validation/review process were qualified. Laboratory data forms were marked up to indicate any validation qualifications that supersede laboratory qualifiers and are included in the data validation memoranda (Appendix E). The final validation qualifiers are consistent with EPA validation guidelines. Positive and nondetect results that were shown to have serious QC problems were rejected and flagged with an "R." Positive results that were shown to exhibit poor precision or accuracy were qualified as approximated and flagged with a "J." Nondetect results that were flagged with a "UJ" if the associated QC data did not meet applicable criteria. Nonqualified positive results were found to meet all validation criteria. Nondetect results that were found to meet the validation criteria were shown as the quantitative limit or detection limit followed by a "U" qualifier.

Surface soil and groundwater analytical data are presented and discussed in Section 4.4. Approximated and nonqualified results were used in further evaluations, but the qualified data were first reviewed to establish their usability. Rejected values were considered to be unusable results for subsequent evaluations. Overall, less than 3% of all the analytical data generated in support of this report were rejected as a result of validation actions.

#### **4.0 SUMMARY OF FINDINGS**

The findings from the BTSA conducted by M&E for the site, as well as pertinent information from previous studies and sources, are presented and discussed in this section.

## 4.1 General Topography

The topography of the site is relatively flat with a mild east-southeast slope towards the Acushnet River. Surface water drainage appears to follow the natural topography of the site and flows towards the river, although ponding of water is evident, particularly in wetland areas (Figure 2-1) and areas with substantial mounding and depressions (Section 2.4).

## 4.2 Subsurface Geologic Conditions and Features

As previously described, the results of previous environmental studies at the site (Kurz, 1986 and GZA, 1991 and 1993) indicate that the soil sequence across much of the site varies. Some of the test pit logs suggested possible fill at some locations, ranging from 2- to 8- feet in depth and overlying a layer of peat or natural deposits of sand and gravel. The fill typically consisted of sand and gravel containing brick and shingle fragments, cinders, asphalt, and concrete rubble in some areas. The peat layer, which varies in thickness from 1 to 2 feet, is underlain by natural deposits of sand and gravel or bedrock. Depths to bedrock ranged from 6 to 9.5 feet across much of the site. In the northwest corner, bedrock depths may be as shallow as 2 to 4 feet below ground surface, based on depths of refusal encountered during repeated attempts to install GW-04 further west and northwest of its final location. A similar situation was encountered during the installation of GW-01, which was originally sited closer to the northeast corner of the site perimeter.

Kurz (1986) indicated that some of the site was filled, presumably with dredged materials from the harbor, during construction in 1963 of the hurricane barrier at the end of the Acushnet River, a short distance from the southeastern corner of the site. However, records documenting the placement of fill (or dredged materials) have not been found by M&E or previous file searches (GZA, 1991). The materials in the fill appear to be more indicative of demolition debris, perhaps from the removed mill structures, than of materials dredged from the river. One exception to this is a gray plastic silt material that was logged in a test pit excavated in the southeast corner of the site, near the river. GZA (1991) suggested that this material may represent hydraulic fill.

According to EDR (1999) and Zen (1983), bedrock at the site is a Precambrian biotite gneiss of the Blackstone Group.

The only known subsurface features on the site consist of storm water, sewer, and utility lines (Section 2.3). A large cylindrical structure, appearing to be the 150,000-gallon buried tank, was located in the baseball field, but was determined to be off the site (Section 3.1). Soil in the tank suggests that it was filled and abandoned in place, but this was not confirmed. Evidence of petroleum contamination near the tank was observed in groundwater and soil from the excavation. Along the northern site perimeter (Lot 2), evidence of the coal storage was found from 1 to 2 feet below grade (Section 3.1) in the suspected location of the former coal bin. Based on the physical evidence observed during excavations, it appears that the coal may have set directly on the ground or on a temporary structure such as wooden slabs, brick floor, or a concrete slab. Other evidence

of buried wood and brick debris (1 to 3 feet) was noted in Lots 3 and 4. It is likely that this debris was part of former building walls and foundations or piers and supports.

### 4.3 Hydrogeologic Conditions

Groundwater depths measured during this investigation were similar to those found previously (GZA, 1991); depths ranged from 8.5 feet below the ground surface along the western side of the site to 4 feet below ground surface along the eastern side of the site. Groundwater elevations measured during this investigation (Section 3.3) indicate the direction of groundwater flow is east-southeast towards the Acushnet River and harbor. It is likely that the groundwater is tidally influenced to some degree. Review of the MADEP Bureau of Waste Site Cleanup (BWSC) site scoring map for the site (Appendix F) indicate that the site is not within an Interim Wellhead Protection Area or within 500 feet of a public water supply. The BWSC map also indicates that the site is not within 500 feet of a surface water body used as a public water supply. No known private water supply wells are within 500 feet of the site.

### 4.4 Nature and Extent of Contamination

The field and analytical data from the field effort conducted by M&E are presented and discussed by media in this section. Where appropriate, data from previous environmental studies at the site are discussed.

Analytical results for surface soil are summarized in Table 4-1. Analytical results for groundwater are summarized in Table 4-2. The tables present detected data by analytical fraction. For each fraction, an analyte is presented if it was detected in at least one sample for that media.

On each table the MCP reportable concentrations (RCs) applicable to the site and to the samples are presented for relative comparison to detected concentrations for detected analytes. This information is provided to evaluate whether a release of oil and/or hazardous material has occurred at the site that requires MADEP notification (MCP 40.03000) based on the reporting category that best characterizes the use of the site.

**Surface Soil.** Eleven surface soil samples were collected at the site (Figure 3-1). Sample collection procedures were described in Section 3.2. Tables 3-1 describes the rationale for selection of each sampling location and provides a brief description of the sample appearance. Table 3-2 summarizes the analyses conducted on each sample. Detected analytical data and reportable concentrations (RC) are shown on Table 4-1. The reporting category RCS-1 applies to surface soil samples collected on Lots 1B, 8, and 9 (SS-02, SS-09, and SS-10) because the sampled locations are within 500 feet of a residentially-zoned and used property. The reporting category RCS-2 applies to all of the other surface soil samples collected from the site since the sampled locations are not at or within 500 feet of a residential dwelling or a residentially-zoned property, school, playground, recreational area or park; or within the geographic boundaries of

a groundwater resource categorized as RCGW-1 (see groundwater results). Surface soil concentrations exceeding RCs are shown in bold on Table 4-1.

Specific VOCs and VPHs were not detected at any of the surface soil locations based on VPH analysis.

Aliphatic and aromatic hydrocarbon fractions were found at many of the surface soil locations based on EPH analysis. Concentrations for the hydrocarbon fractions were below the applicable RCs at all locations.

Numerous polycyclic aromatic hydrocarbons (PAHs) were found in all of the surface soil samples. Two sets of PAH data are shown in Table 4-1 because of overlap between two analytical methods: EPH and RAS semivolatiles organic analysis. Data are reasonably comparable between the two data sets for concentrations detected above the sample-specific detection limits. Concentrations of individual PAH compounds were above the applicable RCs on five lots: Lot 2 (SS-03), Lot 3 (SS-04A and B), Lot 4 (SS-05A and B), Lot 5 (SS-06), and Lot 6 (SS-07). It should also be noted that PAHs other than those analyzed for (reported as tentatively identified compounds) were also detected in many of the samples. The highest PAH concentrations tended to occur on Lots 3 and 4. The PAHs are most likely related to historical use involving the burning and storage of coal or coal products, and possibly fill and the use and storage of asphalt on the site. Maps/plans of the site from when mill operations were active, show the presence of numerous coal piles across the site, possible operation of a coal gasification plant near the northeast corner of the site (offsite), and a former coal bin. In particular, coal ash was observed by M&E in the bare soil/stress vegetation area on Lot 3, where SS-04B was collected.

In addition to PAHs, dibenzofuran and carbazole (no RCs available) were found at most of the surface soil locations. These compounds are often found in samples with elevated PAH concentrations that result from coal sources.

At least one pesticide was detected in a surface soil sample from each lot; however, individual concentrations were below the applicable RCs in all samples. The highest concentrations tended to occur in SS-04B, Lot 3, the area with bare soil/stressed vegetation.

PCBs, Aroclor-1254, were detected on five lots: Lot 1B (SS-02), Lot 3 (SS-04B), Lot 5 (SS-06), Lot 6 (SS-07), and Lot 8 (SS-09). All of the detected PCB concentrations were below the applicable RCs. Aroclor-1254 was previously detected in soil on the site (Kurz, 1986). One of the previous locations (TP-19) was adjacent to the bike track, near Lot 6. The other previous location (TP-6) was near the central section of the site, possibly near the sample collected on Lot 5. The soil sample from Lot 3 (SS-04B) was collected from the area with bare soil/stressed vegetation where M&E observed used capacitors. The source(s) of the PCBs is not readily apparent; however, the Sanborn maps indicate that at one time, there was a transformer on the property. The source of PCBs may also be attributed to fill, if brought in from off-site areas or from the river.

All of the 23 metals analyzed for were detected in at least one of the 11 surface soil samples. The eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were detected in most of the samples. Concentrations varied widely for many metals, with elevated concentrations for heavy metals on several lots. The only exceedance of the applicable metal RC was for lead on Lot 3 (SS-04A). Contaminated fill, if brought onto the site, may be a potential source of some of the metals found at elevated concentrations. Cyanide was not detected in any of the surface soil samples.

In summary, PAHs, most likely from past coal use and asphalt, are widespread in surface soil across the site. PAH concentrations exceeded applicable RCs on Lots 2 through 6. In particular, one surface soil location, SS-04B (Lot 3), exhibited elevated PAH concentrations compared to other surface soils. PCBs were detected in surface soil on three lots (1B, 3, and 6). Like PAHs, the highest PCB concentrations occurred at SS-04B on Lot 3. The only RC exceeded for metals was lead on Lot 3 (SS-04A). It should also be noted that some of the building debris found across the site may contain asbestos (Section 3.2).

**Groundwater.** Groundwater samples were collected from six temporary wells (for a total of four data sets) installed at the site (Figure 3-1). Sample collection procedures were described in Section 3.3. Table 3-2 summarizes the analysis conducted on each sample. Detected analytical data and reportable concentrations (RC) are shown on Table 4-2. The reporting category RCGW-2 applies to all groundwater samples collected from the site since the site is not within a current drinking water source area or a potential drinking water source area. Groundwater concentrations exceeding RCs are shown in bold on Table 4-2.

Volatile organic compounds (VOCs) were detected in groundwater at two well locations: the aliphatic hydrocarbon fraction in GW-01 and toluene in GW-03. Concentrations were below the RCGW-2 values for both analytes. It should be noted that no VOCs were detected in GW-04 even though a petroleum-like sheen was observed in the purge water during sampling (Section 3.3).

Two PAH compounds and the EPH C<sub>11</sub>-C<sub>22</sub> aromatic hydrocarbon fraction were detected in GW-01 and EPH C<sub>9</sub>-C<sub>12</sub> aliphatic hydrocarbon fraction were detected in GW-02. The detected concentrations were below the RCGW-2 values for these analytes.

One pesticide was detected in GW-02 (*gamma*-chlordane) and in GW-0-4 (heptachlor). Several pesticides were detected in GW-01 (*alpha*-BHC; heptachlor; 4,4'-DDE and 4,4'-DDT; and *gamma*-chlordane). Pesticides were not analyzed for in GW-03. None of the detected pesticides was above the RCGW-2 value.

The only PCB detected in groundwater was Aroclor-1254 in GW-01 at 2.6 µg/l. The detected concentration was above the RCGW-2 value of 0.3 µg/l. Generally, PCBs are not readily soluble in aqueous environments, preferring to sorb onto soil particles. Review of turbidity values directly prior to and following sample collection (2 to 6 NTU) at this well indicates that there were few solids in the sample and suggest that the detected value is a colloidal or dissolved form that

can easily migrate through groundwater. Furthermore, GW-01 is located near the bare soil/stressed vegetation area on Lot 3, the same area where used capacitors and PCBs were detected in surface soil sample SS-04B. PCBs were not analyzed for in GW-03.

A number of metals were detected in groundwater at all wells. Generally, basic cations (calcium, magnesium, sodium, and potassium) were present in the highest concentrations. The most elevated metals concentrations occurred at GW-03 (Lot 7), where the available RCGW-2 values were exceeded for antimony, cadmium, nickel, and silver. The elevated metals concentrations at GW-03 would be expected, to some degree, since groundwater from all wells except GW-03 were field filtered for metals due to elevated turbidities. This suggests that the elevated concentrations could be attributed to solids within the sample, as it was not filtered despite an elevated turbidity level (Appendix D) because of very limited sample volume due to poor recharge of this well.

The only detection of cyanide in groundwater was found in GW-04 (Lot 1B), and it exceeded the RCGW-2 value of 10  $\mu\text{g/l}$ . It should be noted that the presence and certainty of this result are questionable based on review of laboratory QC criteria (Appendix E), since cyanide was reported as nondetected in a laboratory duplicate of the sample from GW-04. As a result of validation, the detected cyanide value was estimated and qualified with a "J" because of the conflicting duplicate analysis information. Therefore, the presence of this compound in the sample is uncertain.

In summary, no VOC or petroleum hydrocarbons were detected in GW-04 (Lot 1B). This suggests that petroleum-related contaminants from the fuel release at Mutual Oil Station (across the street from the northwest corner of the site) have not migrated onto the site in shallow groundwater. At each of the other three wells, there was some organic contamination found, though it was different at each well. Aliphatic hydrocarbons were detected in GW-01 (Lot 7), whereas toluene was detected at GW-03 (Lot 9). PCBs, PAHs, and several pesticides were found at GW-01 (Lot 3).

The organics detected in GW-04 (Lot 1B) and GW-01 (Lot 7) may be from an off-site source, since there are no known on-site sources of these compounds. The source of the aliphatic hydrocarbon fraction found in GW-02 (Lot 7) may be attributed to the concrete structure, assumed to be the 150,000-gallon buried tank. GW-02 is hydrogeologically downgradient of the structure, and evidence of petroleum-contamination from the structure was observed during test pit excavation (Section 3.1). Since the Lisbon Auto Repair Shop is hydrogeologically upgradient of GW-03 (Lot 9) and may have used/uses cleaning fluids, solvents, etc., that contain chemicals like toluene, the shop may be a potential source of the toluene found in GW-01 (Lot 7).

On the other hand, the organics detected in GW-01 (Lot 3) are similar to those found in the surface soil (SS-04B) collected within the same bare soil/stressed vegetation area. The physical characteristics of this area, coupled with the chemical data suggest that discrete dumping may have occurred at this location.

The only well where RCGW-2 values for metals were exceeded was GW-03 (Lot 7). The metals for which the RC values were exceeded are antimony, cadmium, nickel, and silver. Metals concentrations at GW-03 are likely more elevated compared to the three other wells that were sampled because the potential for higher solids within the sample volume analyzed. Review of laboratory data suggests that the cyanide detected in GW-04 (Lot 1B) may not be accurate.

## **5.0 RISK CHARACTERIZATION**

The methods used to perform a preliminary risk characterization of the environmental surface soil and groundwater analytical data, as well as the findings of the preliminary risk characterization, are presented and discussed in this section.

### **5.1 Risk Characterization Methodology**

A preliminary risk characterization of the surface soil and groundwater analytical data has been performed through a comparison of exposure point concentrations (EPCs) to applicable MCP Method 1 Standards. In order to calculate EPCs for soil and groundwater, sampling locations with sample and field duplicate results (i.e., SS-09, GW-02, and GW-04) were averaged to derive a single set of data for each sampling location. In calculating average values, one-half the sample quantitation limit was used for any non-detect results. EPCs for surface soil were derived for each subdivision lot. For lots where a single soil sample was collected, the detected contaminant concentrations were selected as the EPCs. For lots where two surface soil samples were collected (i.e., Lots 3 and 4), analytical results from the two samples were averaged, treating non-detect results as previously described, to derive EPCs. For groundwater, the analytical results for each temporary monitoring well were selected as the EPCs. Surface soil EPCs by lot, and groundwater EPCs by well, are presented on Tables 5-1 and 5-2, respectively.

Applicable Method 1 soil and groundwater standards were selected based on site-specific information regarding anticipated future site uses and known groundwater characteristics which were used to classify soil and groundwater into MCP soil and groundwater categories. The BWSC Site Scoring Map is presented in Appendix F. For groundwater, the site is not within an area that meets the criteria for classification into the GW-1 category (i.e., a current or future source of drinking water). However, since average annual depth to groundwater at the site is less than 15 feet below ground surface, structures will likely be built on the land above the groundwater, and groundwater likely discharges to a surface water receiving body (i.e., the Acushnet River). Therefore, the GW-2 and GW-3 groundwater categories were selected as appropriate to characterize groundwater risks to future human on-site receptors and potential ecological receptors in the environs of the Acushnet River. The MCP Method 1 standards for GW-2 groundwater were developed by MADEP to address the potential migration of volatile materials from groundwater to indoor air. The MCP Method 1 standards for GW-3 groundwater provide for protection against migration and discharge of groundwater contaminants to surface water at concentrations above Ambient Water Quality Criteria for freshwater and marine environments.

The site is currently undergoing development for marine-related industry. Therefore, the MCP S-2 soil category was selected as the most appropriate to characterize potential on-site risks to future industrial receptors contacting surface soil contaminants. The MCP Method 1 standards for category S-2 soils were developed by MADEP to be protective of adult exposures to soil contaminants during work-related activities and also to be protective of childhood exposures to soil contaminants of low intensity and frequency (e.g., passive recreational exposures).

Based on the soil and groundwater category classification for the site, surface soil EPCs for each lot were compared to MCP Method 1 S-2/GW-2 and S-2/GW-3 soil standards, and groundwater EPCs for each temporary monitoring well were compared to MCP Method 1 GW-2 and GW-3 groundwater standards. The S-2/GW-2 and S-2/GW-3 soil standards are presented on Table 5-1. GW-2 and GW-3 groundwater standards are presented on Table 5-2.

Method 2 standards were not developed for contaminants lacking MCP Method 1 standards. Instead, EPCs for contaminants lacking MCP Method 1 standards were qualitatively discussed relative to background levels, if appropriate and available, to standards developed for other contaminants with similar toxicological and/or fate and transport characteristics, or to guidelines developed by other regulatory agencies for a detected contaminant.

## 5.2 Findings

**Surface Soil.** Surface soil EPCs exceeding MCP Method 1 soil standards are shown in bold on Table 5-1. No exceedances of soil standards were noted for Lots 1B, 7, 8, and 9. For Lot 2, slight exceedances of the MCP Method 1 soil standards for benzo(a)pyrene (700  $\mu\text{g}/\text{kg}$ ) and dibenzo(a,h)anthracene (700  $\mu\text{g}/\text{kg}$ ) were noted (770 and 820  $\mu\text{g}/\text{kg}$ , respectively). A number of exceedances of MCP Method 1 standards were noted for Lots 3, 4, 5, and 6, including benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenzo(a,h)anthracene. In addition, the chrysene EPC for Lot 4 (10,300  $\mu\text{g}/\text{kg}$ ) slightly exceeds its Method 1 standard (10,000  $\mu\text{g}/\text{kg}$ ), and the lead EPC for Lot 3 (2,010  $\text{mg}/\text{kg}$ ) exceeds its Method 1 standard (600  $\text{mg}/\text{kg}$ ). As discussed in Section 4.4, the presence of PAHs and lead in surface soils may be related to the historical use and activities on the site.

Calcium, iron, magnesium, potassium, and sodium are essential nutrients, which were detected in on-site soils, lack MCP Method 1 soil standards. Because they are essential nutrients and present at relatively low environmental concentrations, it is unlikely that these analytes would present a risk to human or environmental receptors. In addition, the detected inorganic analytes aluminum, cobalt, copper, and manganese lack MCP Method 1 soil standards. However, MADEP has published background levels for these analytes in soil (aluminum 13,000  $\text{mg}/\text{kg}$ ; cobalt 4.4  $\text{mg}/\text{kg}$ ; copper 38  $\text{mg}/\text{kg}$ ; manganese 300  $\text{mg}/\text{kg}$ ). A comparison of the detected levels of these four analytes to their respective MADEP background levels demonstrates that each analyte is present at levels consistent with or only slightly above its background level.

MCP Method 1 soil standards are also lacking for the organic contaminants dibenzofuran, carbazole, *beta*-BHC, endosulfan sulfate, endrin ketone, and endrin aldehyde. The detected concentrations of these analytes may be qualitatively compared to MCP Method 1 soil standards developed for compounds with similar toxicological and/or fate and transport characteristics or to guidelines developed by other regulatory agencies for the detected contaminant. For this comparison, standards for: (1) endrin (S-2/GW-2 standard of 10,000  $\mu\text{g}/\text{kg}$  and S-2/GW-3 standard of 1,000  $\mu\text{g}/\text{kg}$ ) have been selected for endrin ketone and endrin aldehyde; (2) endosulfan (S-2/GW-2 standard of 400,000  $\mu\text{g}/\text{kg}$  and S-2/GW-3 standard of 5  $\mu\text{g}/\text{kg}$ ) have been selected for endosulfan sulfate; and (3) *gamma*-BHC (S-2/GW-2 standard of 600  $\mu\text{g}/\text{kg}$  and S-2/GW-3 standard of 500  $\mu\text{g}/\text{kg}$ ) have been selected for *beta*-BHC. None of the EPCs for these compounds exceeds the surrogate Method 1 standard. Since no appropriate surrogates were identified for dibenzofuran and carbazole, the surface soil EPCs for these analytes have been qualitatively compared to the lower of the industrial soil risk-based concentration or the soil screening level (protective of leaching to groundwater, assuming dilution and attenuation) presented by EPA Region 9. All dibenzofuran surface soil EPCs are less than the screening level for dibenzofuran (510,00  $\mu\text{g}/\text{kg}$ ; risk-based concentration adjusted to a hazard index of 0.1). However, surface soil EPCs for Lots 3, 4, 5, and 6 exceed the screening level for carbazole (600  $\mu\text{g}/\text{kg}$ ; soil screening level).

**Groundwater.** Groundwater EPCs exceeding MCP Method 1 groundwater standards are shown in bold on Table 5-2. No exceedances of groundwater standards were noted for temporary monitoring well GW-02. For GW-01, an exceedance of the MCP Method 1 groundwater standards for PCB Aroclor-1254 (0.3  $\mu\text{g}/\text{l}$ ) was noted (EPC of 2.6  $\mu\text{g}/\text{l}$ ). A slight exceedance of the MCP Method 1 groundwater standard for cyanide (10  $\mu\text{g}/\text{l}$ ) was noted for GW-04 (EPC of 11.1  $\mu\text{g}/\text{l}$ ). However, as discussed in Section 4.4, the presence of cyanide in the GW-04 sample is uncertain. A number of inorganic exceedances of MCP Method 1 standards were noted for GW-03, including antimony, cadmium, nickel, and silver. It should be noted that field filtering was not performed on the groundwater sample from GW-03 prior to metals analysis.

Calcium, iron, magnesium, potassium, and sodium are essential nutrients, which were detected in on-site groundwater, but lack MCP Method 1 groundwater standards. Because they are essential nutrients and all, except sodium, are present at relatively low environmental concentrations, it is unlikely that these analytes would present a risk to human or environmental receptors. In addition, the detected metals aluminum, cobalt, copper, and manganese lack MCP Method 1 groundwater standards. No published MADEP background levels or appropriate risk-based concentrations are available to compare to the detected concentrations of these analytes. MCP Method 1 groundwater standards are also lacking for the *alpha*-BHC. The detected concentrations of this analyte may be qualitatively compared to the MCP Method 1 groundwater standards developed for a compound with similar toxicological and/or fate and transport characteristics. For this comparison, standards for *gamma*-BHC (GW-3 standard of 0.8  $\mu\text{g}/\text{l}$ ) have been selected for *alpha*-BHC. None of the EPCs for *alpha*-BHC exceed its surrogate Method 1 groundwater standard.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

This section presents the conclusions and recommendations for the BTSA investigation conducted at the Standard Times Field. The conclusions and recommendations are based on the intended future use of the site, which is to develop a 10-lot subdivision to support marine-related industry. Currently, the site preparation of the subdivision is being conducted by the city of New Bedford for this purpose.

The site is currently not listed as a waste site under the MCP. The BTSA was structured to provide environmental data that could be used to meet many of the requirements needed to assess the site relative to the MCP.

### 6.1 Conclusions

Information about historical use and operations at the site, ownership history, current site conditions, previous environmental studies at the site, and site-specific objectives are discussed in Section 2.0. The conclusions presented below focus on only the investigation and evaluation conducted as part of M&E's BTSA at the site.

- Groundwater flow direction, inferred from groundwater elevation measurements at four temporary monitoring wells, is east-southeast towards the Acushnet River.
- A large cylindrical concrete/rebar structure was located using geophysical techniques in the suspected area of the 150,000-gallon buried tank. The location was determined to be outside of the site boundaries. Test pits were excavated along the top of the tank and the western wall. Evidence of petroleum contamination in the immediate vicinity of the structure was visually observed during excavations. Petroleum hydrocarbons were detected in a soil/tar-like sample submitted for analysis from an opening on top of the structure.
- Evidence of coal layer 1 to 2 feet below grade was found in the suspected area of the former coal bin.
- Some of the building debris that is scattered across the site may contain asbestos. Asbestos was detected in a transite-type material on Lot 3.
- Aliphatic and aromatic hydrocarbon fractions, PAHs, pesticides, PCBs, and metals were detected in surface soils across the site. Applicable RCs (RCS-1 and RCS-2) and MCP Method 1 soil standards for industrial use were exceeded for PAHs in surface soils on Lots 2 through 6 and for lead in surface soils on Lot 3.
  - Since there is considerable evidence of historical coal use on the site, the site would qualify for exemption from notification for the PAH exceedances only.

- The lead exceedance on Lot 3 requires notification and further investigation. The source of the elevated lead level in this area is not known.
- The risk exceedances suggest that further investigation may be warranted at Lots 2 through 6 prior to industrial development.
- A limited number of organic compounds were detected in groundwater samples collected from four temporary monitoring wells installed across the site. The only organic compound that exceeded RCGW-2 values and MCP Method 1 groundwater standards for category GW-3 in groundwater was PCBs at GW-01 (Lot 3). A number of metals were detected; highest concentrations were found in the unfiltered sample from GW-03 (Lot 9). RCGW-2 values and MCP Method 1 groundwater standards for category GW-3 were exceeded for antimony, cadmium, nickel, and silver at GW-03 (Lot 9). RCGW-2 values and MCP Method 1 groundwater standards for category GW-3 were exceeded for cyanide at GW-04 (Lot 1B); however, the presence of cyanide detection is uncertain.
  - The PCB exceedance on Lot 3 and the metals exceedances on Lot 9 require notification and further investigation.
  - The risk exceedances suggest that further investigation may be warranted concerning potential impacts at the Acushnet River.

## 6.2 Recommendations

- Notification to MADEP is required because of applicable RC exceedances in surface soil and/or groundwater. Although it may involve more paperwork, it is suggested that separate notifications be made for different areas of the site. This will allow further assessments to be more focused and may facilitate a Response Action Outcome (RAO) for each specific area as it is investigated and/or remediated. A scope of work for Phase II investigation(s) and Tier Classification will need to be prepared and submitted in association with the notification paperwork.
  - Notification of PAH, PCB, and lead exceedances on Lot 3
  - Prepare separate notifications for Lot 3; one for area of SS-04A and one for area of SS-04B
  - Notification of metals exceedances on Lot 9
- Although there is not a need to notify the MADEP of subdivision lots with only PAH exceedances for RCs in surface soil (2 and 4 through 6) because of the coal/coal ash/wood ash exemption, further assessment and evaluation of risk is suggested.

- Consider applying minimal deed restrictions on subdivision lots with a reporting category of S-2 (Lots 2 through 6), to prevent future residential use.
- Precautions should be taken to ensure protection of personnel safety while conducting construction work on the site, particularly around building debris, where some materials may contain asbestos. Building debris materials such as roofing shingles, wall board, ceiling and floor tiles should be tested for ACMs prior to removal to determine proper disposal.

### 6.3 Limitations

No warranty, whether expressed or implied, is given with respect to this report or any opinions herein. It is expressly understood that this report and opinions expressed herein are based upon site conditions reported to M&E, observed by M&E, and as they existed only at the time this BTSA was conducted. Without limiting the foregoing, this report, any opinions or conclusions stated herein, and its attachments are subject to the complete General Statement of Limitations and Conditions provided in Appendix G, which are incorporated by reference into, and are an integral part of, this report submittal. This report has been prepared on behalf of, and for the exclusive use of, the U.S. Environmental Protection Agency. Any use of or reliance on M&E's report by a third party, even with M&E's consent, shall be at such party's own risk.

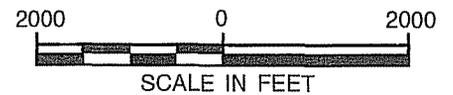
### 7.0 REFERENCES

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- Metcalf & Eddy, Inc. (M&E). 1999a. *Background Summary Memorandum for Standard Times Field Site, New Bedford, Massachusetts – Brownfields Targeted Site Assessment*. Prepared for the U.S. Environmental Protection Agency. May 1999.

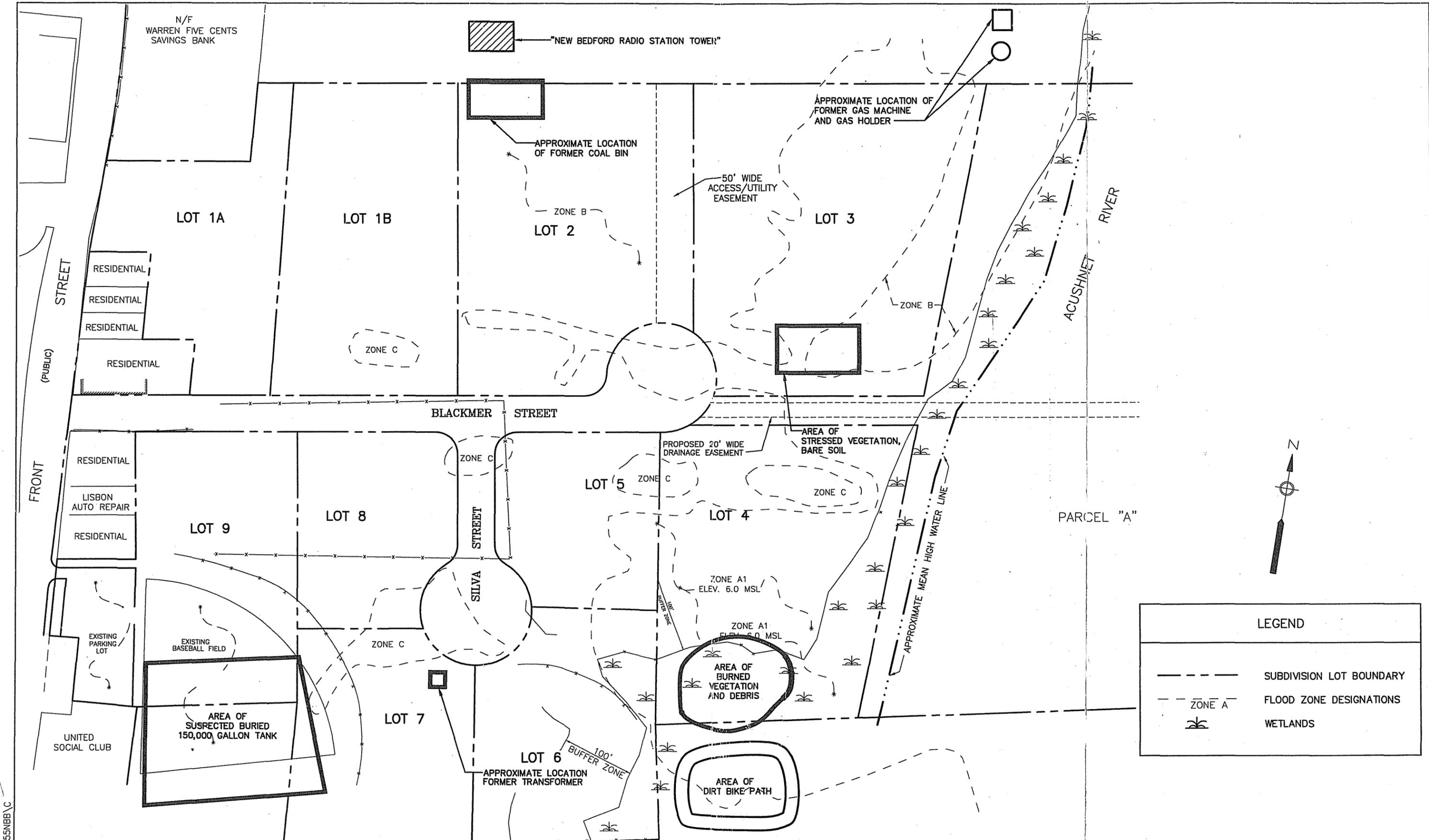
**FIGURES**



SOURCE: USGS TOPOGRAPHIC MAP  
 NEW BEDFORD SOUTH, MA., 1977



**FIGURE 1-1. SITE LOCATION MAP  
 STANDARD TIMES FIELD  
 FRONT STREET  
 NEW BEDFORD, MASSACHUSETTS**



LEGEND	
	SUBDIVISION LOT BOUNDARY
	FLOOD ZONE DESIGNATIONS
	WETLANDS



SOURCE OF BASEMAP: (SITEC, 1998)  
 GRADE/UTILITY PLAN-SOUTH TERMINAL  
 OCTOBER 21, 1998

Note:  
 All BTSA locations are approximated  
 based on GPS data obtained by  
 Metcalf & Eddy.

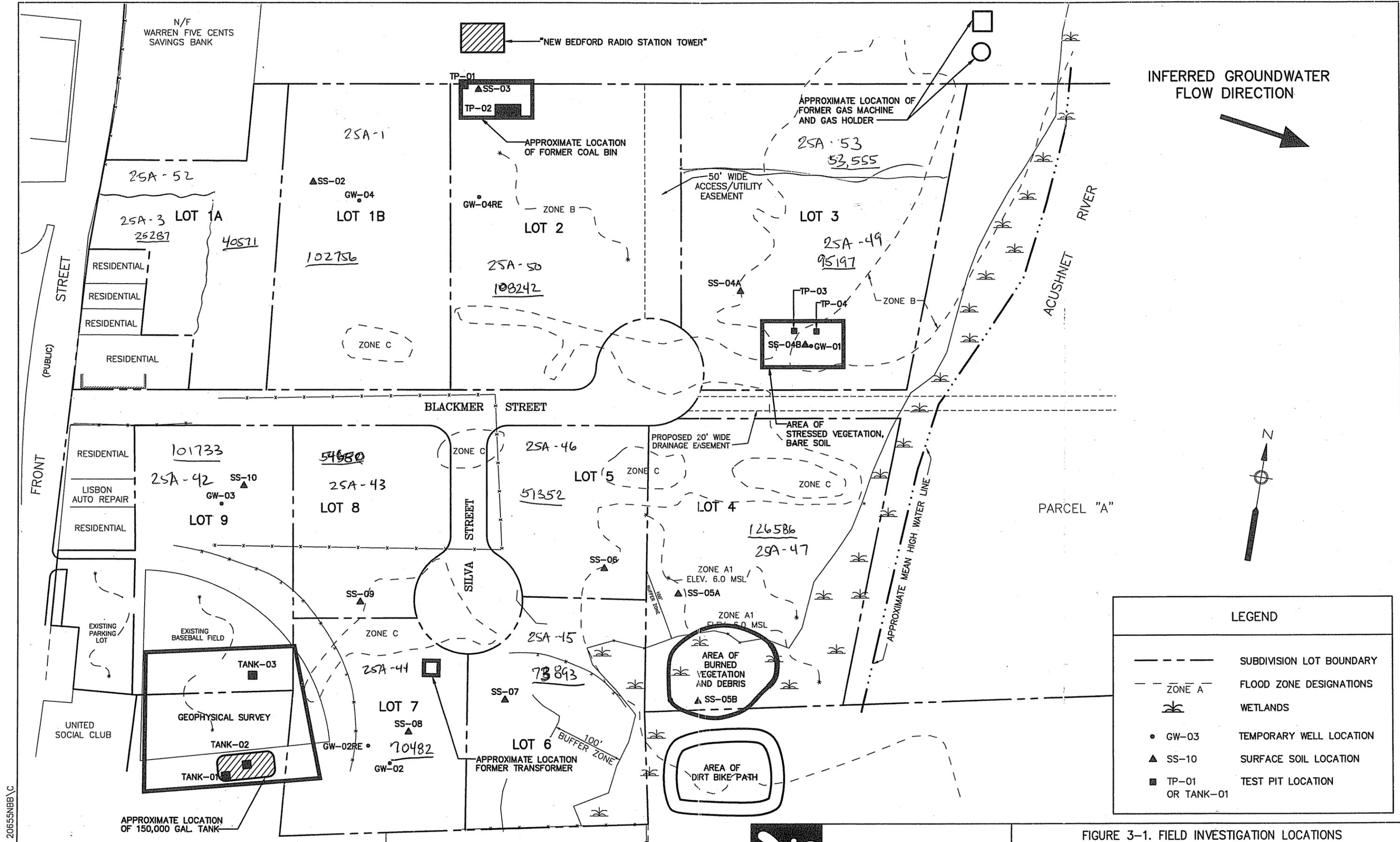


METCALF & EDDY

FIGURE 2-1. SITE BASE MAP  
 FALL 1999  
 STANDARD TIMES FIELD  
 NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=120'	1/18/00	CZNB001
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SDB - 08-04-03 20655NBB\C



INFERRED GROUNDWATER FLOW DIRECTION



LEGEND	
---	SUBDIVISION LOT BOUNDARY
- - -	FLOOD ZONE DESIGNATIONS
Wetland symbol	WETLANDS
•	TEMPORARY WELL LOCATION
▲	SURFACE SOIL LOCATION
■	TEST PIT LOCATION OR TANK-01

SOURCE OF BASEMAP: (SITEC, 1998)  
GRADE/UTILITY PLAN-SOUTH TERMINAL  
OCTOBER 21, 1998

Note:  
All BTSA locations are approximated  
based on GPS data obtained by  
Metcalf & Eddy.



METCALF & EDDY

FIGURE 3-1. FIELD INVESTIGATION LOCATIONS  
FALL 1999  
STANDARD TIMES FIELD  
NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=120'	1/18/00	CZNB003
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20655NBB\C  
STB - 08-04-93

**TABLE 3-1. SURFACE SOIL LOCATION SELECTION RATIONALE  
- STANDARD TIMES FIELD, FALL 1999 BTSA**

Lot No.	Location ID	Rationale for Location Selection	Physical Description of Hole/Soil Sample
1B	SS-02	<ul style="list-style-type: none"> <li>• most upgradient location for entire site (assumed groundwater flow direction)</li> <li>• possible impact area from off-site sources (Mutual Oil Station); no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1½ feet, dark loam</li> <li>• 1½ to 2 feet, sandy gravel</li> <li>• 2 to 3 feet, medium graded sand</li> </ul>
2	SS-03	<ul style="list-style-type: none"> <li>• located within estimated area of former coal bin</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to ½ feet, sandy loam</li> <li>• ½ to 1 feet, clay with gravel</li> <li>• 1 to 1½ feet, sand with coal fragments over a layer of cobbles (possible road or foundation)</li> <li>• 1½ to 2 feet, sand</li> <li>• 2 to 3 feet, dark, dense sand with clay</li> </ul>
3	SS-04A	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to ½ feet, sandy loam</li> <li>• ½ to 3 feet, dense sand with gravel</li> <li>• 3 feet, dark dense clay layer (6 inches thick)</li> <li>• 3 to 4 feet, dense sandy clay below the clay layer</li> </ul>
	SS-04B	<ul style="list-style-type: none"> <li>• located within area of stressed vegetation, bare soil, capacitor debris, and coal ash</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1 feet, sandy loam</li> <li>• 1 to 2 feet, sand</li> <li>• 2 to 2½ feet, layer of bricks</li> <li>• 2½ to 3 feet, dark, poorly graded sand and some coal ash with a sweet odor</li> <li>• cobbles and debris (brick and wood) were mixed throughout each layer</li> </ul>
4	SS-05A	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 3 feet, loam with some sand, small quantity of bricks, wetland plant roots evident</li> <li>• 3 to 4 feet, greyish, dense sand</li> </ul>
	SS-05B	<ul style="list-style-type: none"> <li>• location within area of burned vegetation and debris including automotive/boat fuel tanks, tires, and glass fragments</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to ½ feet, sandy loam</li> <li>• ½ to 3 feet, sandy clay with cobbles and some brick debris</li> <li>• 3 feet, dense sand layer</li> </ul>
5	SS-06	<ul style="list-style-type: none"> <li>• arbitrary location, placed; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1 feet, dark sandy loam</li> <li>• 1 to 3 feet, dense sand with cobbles (some greyish sand mixed in)</li> </ul>
6	SS-07	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 2 feet, fine sand with loam</li> <li>• 2 to 3 feet, sandy clay</li> <li>• 3 feet, ledge or boulder</li> </ul>
7	SS-08	<ul style="list-style-type: none"> <li>• arbitrary location, placed downgradient of suspected UST</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1½ feet, loamy sand</li> <li>• 1.5 to 3 feet, poorly graded sand (beach sand)</li> </ul>
8	SS-09	<ul style="list-style-type: none"> <li>• arbitrary location; no visual evidence of potential contaminant areas observed</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 2 feet, sandy clay</li> <li>• 2 to 3 feet, dark, dense clay</li> </ul>
9	SS-10	<ul style="list-style-type: none"> <li>• arbitrary location, placed downgradient of auto body shop</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 1 feet, loamy sand</li> <li>• 1 to 3 feet, medium graded sand, some gravel</li> </ul>

**TABLE 3-2. SUMMARY OF SAMPLING LOCATIONS AND ANALYSES**

LOT NO.	LOCATION ID	PARAMETERS*						
		VPH	EPH	SVOC	PEST	PCB	METALS	CYANIDE
<b>SURFACE SOIL:</b>								
1B	SS-02	x	x	x	x	x	x	x
2	SS-03	x	x	x	x	x	x	x
3	SS-04A	x	x	x	x	x	x	x
3	SS-04B	x	x	x	x	x	x	x
4	SS-05A	x	x	x	x	x	x	x
4	SS-05B	x	x	x	x	x	x	x
5	SS-06	x	x	x	x	x	x	x
6	SS-07	x	x	x	x	x	x	x
7	SS-08	x	x	x	x	x	x	x
8	SS-09	x	x	x	x	x	x	x
9	SS-10	x	x	x	x	x	x	x
<b>GROUNDWATER:</b>								
1B	GW-04	x	x	-	x	x	x	x
3	GW-01	x	x	-	x	x	x	x
7	GW-02	x	x	-	x	x	x	x
9	GW-03	x	x	-	**	**	x	x

**NOTES:**

\* - Refer to Table 3-5 for analytical methodology

\*\* - Sample volume not collected for this analysis due to poor recharge

VPH - Volatile Petroleum Hydrocarbons

EPH - Extractable Petroleum Hydrocarbons

PEST - Pesticides

PCB - Polychlorinated biphenyls

**TABLE 3-3. TEMPORARY WELL LOCATION SELECTION RATIONALE -  
STANDARD TIMES FIELD, FALL 1999 BTSA**

Lot No.	Location ID	Rationale for Location Selection
1B	GW-04	<ul style="list-style-type: none"> <li>located in the hydrogeologically-inferred downgradient direction of Mutual Oil Station</li> <li>attempts to locate further northwest failed because of shallow refusal depths encountered (2 to 3 feet)</li> </ul>
3	GW-01	<ul style="list-style-type: none"> <li>located within area of bare soil and stressed vegetation</li> <li>attempts to locate further northeast failed because of difficult terrain and shallow refusal depths</li> </ul>
7	GW-02	<ul style="list-style-type: none"> <li>located hydrogeologically-inferred downgradient direction of buried concrete structure (assumed to be 150,000-gallon buried tank)</li> </ul>
3	GW-03	<ul style="list-style-type: none"> <li>located hydrogeologically-inferred downgradient direction of Lisbon Auto Repair Shop</li> </ul>

**TABLE 3-4. GROUNDWATER ELEVATION MEASUREMENTS**

Lot No.	Location ID	Depth groundwater (ft bgs)	Relative Elevation* (feet)
1B	GW-04	6.15	7.21
3	GW-01	3.14	6.86
	GW-03	7.31	7.89
7	GW-02	5.90	7.10

\*Top of well elevation is relative to an on-site reference point  
ft bgs - feet below ground surface

TABLE 3-5. SAMPLE ANALYSES AND QUANTITIES COLLECTED

Analysis/Parameter *	Locations/ Field Samples	Field-Collected QC Samples				Total Samples
		Trip Blanks	Field Duplicates	MS	MSD	
<b>Surface Soil Samples</b>						
<i>RAS</i>						
Semivolatile Organic Compounds (OLM04.1)	11	0	1	1	1	14
Inorganics - Metals/Cyanide (ILM04.0)	11	0	1	1	0	13
Pesticides/PCBs (OLM04.1)	11	0	1	1	1	14
<i>Directly Subcontracted</i>						
Volatile Petroleum Hydrocarbons (VPH; MADEP)	11	1	1	0	0	13
Extractable Petroleum Hydrocarbons (EPH; MADEP)	11	0	1	0	0	12
<b>Soil Samples - Ground Surface Debris</b>						
<i>Directly Subcontracted</i>						
Asbestos (40CFR, Chap.1)	3	0	0	0	0	3
<b>Product Sample - Buried Tank</b>						
<i>Directly Subcontracted</i>						
GC/FID Fingerprint (SW8100)	1	0	0	0	0	1
PCBs (SW8082)	1	0	0	0	0	1
<b>Groundwater</b>						
<i>RAS</i>						
Metals (ILM04.0)	4	0	1	1	0	6
Cyanide (ILMO4.0)	3	0	1	1	0	5
Pesticides (OLMO4.1)	5	0	2	1	1	9
PCBs (OLM04.1)	5	0	2	1	1	9
<i>Directly Subcontracted</i>						
Volatile Petroleum Hydrocarbons (VPH; MADEP)	6	2	2	1	1	12
Extractable Petroleum Hydrocarbons (EPH; MADEP)	6	0	2	1	1	10

NOTES:

\* - RAS method numbers indicate the most recent CLP Statement of Work revision. Previous versions may be used by the CLP laboratory. Methods for subcontracted laboratory analyses are presented parenthetically, with references listed below.

**Directly Subcontracted Methods:**

40CFR: Analysis is based upon *Analysis of Bulk Asbestos in Building Materials* as defined in 40 CFR.  
 SW846: Test Methods for Evaluating Solid Wastes, Third Edition, Update 3, U.S.EPA, December 1996.

CLP - Contract Laboratory Program  
 RAS - Routine Analytical Services

GC/FID - Gas Chromatograph/Flame Ionization Detector  
 MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 4-1. SUMMARY OF ANALYTICAL DATA - SURFACE SOILS \*  
 B TSA INVESTIGATION - STANDARD TIMES FIELD - FALL 1999

LOT NUMBER LOCATION NAME SAMPLE DEPTH (ft bgs) M&E SAMPLE ID DATE SAMPLED COMMENTS	1B		8		9	Reportable Concentrations ** RCS-1	2		3		4		Reportable Concentrations ** RCS-2
	SS-02		SS-09		SS-10		SS-03		SS-04		SS-05		
	0.0 - 3.0		0.0 - 3.0		0.0 - 3.0		0.0 - 3.0		0.0 - 3.0		0.0 - 3.0		
	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	SS0301STF		SS0401STF	SS0402STF	SS0501STF	SS0502STF			
	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99		
				FD									
<b>PARAMETER/ANALYTE</b>													
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (ug/kg)</b>													
None Detected													
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (ug/kg)</b>													
C <sub>9</sub> -C <sub>18</sub> Aliphatics (1)						1,000,000							2,500,000
C <sub>19</sub> -C <sub>36</sub> Aliphatics (1)	3,200 U	3,100 U	3,200 U	2,900 U		2,500,000	3,500 U	3,200	3,400 U	3,300 U	3,400 U		5,000,000
C <sub>11</sub> -C <sub>22</sub> Aromatics (1,2)	4,200 U	4,200 U	4,200 U	3,900 U		200,000	4,600 U	50,000	19,000	32,000	19,000		2,000,000
	9,000 U	8,900 U	9,000 U	8,300 U			23,000	180,000	120,000	290,000	75,000		
Naphthalene	530 U	520 U	530 U	490 U		4,000	580 U	520 U	570 U	1,300	570 U		1,000,000
2-Methylnaphthalene	530 U	520 U	530 U	490 U		4,000	580 U	520 U	570 U	720	570 U		1,000,000
Acenaphthylene	530 U	520 U	530 U	490 U		100,000	580 U	520 U	570 U	1,100	570 U		1,000,000
Acenaphthene	530 U	520 U	530 U	490 U		20,000	580 U	520 U	570 U	2,000	570 U		2,500,000
Fluorene	530 U	520 U	530 U	490 U		400,000	580 U	570	570 U	2,600	570 U		2,000,000
Phenanthrene	530 U	520 U	530 U	490 U		100,000	1,500	7,800	6,800	20,000	1,500		100,000
Anthracene	530 U	520 U	530 U	490 U		1,000,000	580 U	2,100	1,600	4,000	570 U		1,000,000
Fluoranthene	530 U	520 U	530 U	490 U		1,000,000	1,600	16,000	13,000	24,000	3,000		1,000,000
Pyrene	530 U	520 U	530 U	490 U		700,000	1,500	17,000	13,000	28,000	3,900		2,000,000
Benzo(a)anthracene	530 U	520 U	530 U	490 U		700	780	8,600	6,000	12,000	2,000		1,000
Chrysene	530 U	520 U	530 U	490 U		7,000	850	7,400	5,200	12,000	2,000		10,000
Benzo(b)fluoranthene	530 U	520 U	530 U	490 U		700	580	7,700	5,700	9,300	2,100		1,000
Benzo(k)fluoranthene	530 U	520 U	530 U	490 U		7,000	770	4,600	5,300	8,700	1,800		10,000
Benzo(a)pyrene	530 U	520 U	530 U	490 U		700	770	8,200	5,800	11,000	2,200		700
Indeno(1,2,3-cd)pyrene (3)	530 U	520 U	530 U	490 U		700	820	7,500	7,000	10,000	2,500		1,000
Dibenzo(a,h)anthracene (3)	530 U	520 U	530 U	490 U		700	820	7,500	7,000	10,000	2,500		700
Benzo(g,h,i)perylene	530 U	520 U	530 U	490 U		1,000,000	580 U	5,300	5,000	7,400	2,000		2,500,000
<b>SEMIVOLATILE ORGANIC COMPOUNDS - RAS (ug/kg)</b>													
Naphthalene	360 U	350 U	340 U	18 J		4,000	140 J	450 J	510 J	1,300 J	430 J		1,000,000
2-Methylnaphthalene	360 UJ	350 UJ	340 UJ	340 UJ		4,000	49 J	440 J	250 J	480 J	3,800 UJ		1,000,000
Acenaphthylene	29 J	350 U	340 U	340 U		100,000	59 J	1,200 J	700 J	1,700 J	1,400 J		1,000,000
Acenaphthene	28 J	350 U	340 U	340 U		20,000	140 J	470 J	1,200 J	2,100 J	640 J		2,500,000
Dibenzofuran	19 J	350 U	340 U	340 U		100,000	110 J	370 J	710 J	1,600 J	410 J		1,000,000
Fluorene	27 J	350 U	340 U	340 U		400,000	140 J	1,600 J	1,400 J	2,200 J	820 J		2,000,000
Phenanthrene	360	22 J	27 J	84 J		100,000	1,100	11,000	14,000	18,000	7,000		100,000
Anthracene	83 J	350 U	340 U	25 J		1,000,000	250 J	3,300	4,200	5,600	2,200 J		1,000,000
Carbazole	42 J	350 U	340 U	340 U		-	150 J	770 J	2,000 J	2,400 J	670 J		-
Fluoranthene	650	41 J	72 J	170 J		1,000,000	1,400	14,000	21,000	24,000	12,000		1,000,000
Pyrene	530	35 J	60 J	140 J		700,000	1,100	20,000	19,000	22,000	12,000		2,000,000
Benzo(a)anthracene	290 J	23 J	37 J	91 J		700	640	8,900	10,000	14,000	6,200		1,000
Chrysene	320 J	27 J	35 J	96 J		7,000	700	8,400	9,900	14,000	6,600		10,000
Benzo(b)fluoranthene	250 J	21 J	33 J	76 J		700	580	7,700	9,100	12,000	5,300		1,000
Benzo(k)fluoranthene	340 J	25 J	33 J	92 J		7,000	620	5,000	11,000	11,000	6,100		10,000
Benzo(a)pyrene	310 J	21 J	36 J	92 J		700	650	7,800	11,000	14,000	7,100		700

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS \*  
 BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER LOCATION NAME SAMPLE DEPTH (ft bgs) M&E SAMPLE ID DATE SAMPLED COMMENTS	1B	8		9	Reportable Concentrations ** RCS-1	2	3		4		Reportable Concentrations ** RCS-2
	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0		0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	
	SS0201STF	SS0901STF	SSK0901STF	SS1001STF		SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	
	09/28/99	09/28/99	09/28/99	09/28/99		09/28/99	09/28/99	09/28/99	09/28/99		
			FD								
Indeno(1,2,3-cd)pyrene	190 J	350 U	22 J	59 J	700	370 J	4,200	7,400	7,900	4,300	700
Dibenz(a,h)anthracene	65 J	350 U	340 U	28 J	700	190 J	2,100	2,500 J	3,200 J	1,500 J	700
Benzo(g,h,i)perylene	190 J	19 J	24 J	66 J	1,000,000	400	4,700	8,300	9,100	5,300	2,500,000
<b>PESTICIDES - RAS (µg/Kg)</b>											
beta-BHC	3.9 J	1.8 UJ	1.8 UJ	1.7 UJ	10,000	1.9 UJ	R	R	2.0 UJ	2.0 UJ	100,000
Heptachlor	R	0.29 J	0.62 J	0.69 J	100	1.9 U	1.8 U	1.9 U	2.0 U	2.0 U	200
4,4'-DDE	20 J	3.4 U	3.5 U	3.3 U	2,000	3.7 U	R	82 J	R	R	2,000
Endrin	R	3.4 UJ	3.5 UJ	3.3 UJ	600	7.7 J	R	3.7 UJ	R	3.8 UJ	50
Endosulfan II	4.0 J	3.4 U	3.5 U	3.3 U	50	3.7 U	3.6 J	3.7 U	3.8 U	3.8 U	50
4,4'-DDD	3.4 U	3.4 U	3.5 U	3.3 U	2,000	R	R	3.7 U	3.8 U	73 J	3,000
Endosulfan sulfate (4)	13 J	3.4 U	3.5 U	3.3 U	50	R	R	22 J	12 J	8.0 J	50
4,4'-DDT	75	6.7 J	4.4 J	4.7 J	2000	11 J	R	300 J	R	R	2,000
Methoxychlor	40	18 UJ	18 UJ	17 UJ	30,000	53 J	18 UJ	180 J	R	R	30,000
Endrin ketone (5)	3.4 U	3.4 U	3.5 U	3.3 U	600	17 J	47 J	60 J	56 J	R	1,000
Endrin aldehyde	R	3.4 U	3.5 U	3.3 U	10,000	7.0 J	5.5 J	R	50 J	12 J	100,000
alpha-Chlordane	8.6 J	1.8 U	1.8 U	1.7 U	1,000	1.9 U	1.80 U	R	2.0 U	2.0 U	2,000
gamma-Chlordane	R	1.8 U	1.8 U	1.7 U	1,000	1.9 U	2.6 J	R	R	3.7 J	2,000
<b>PCBS - RAS (µg/kg)</b>											
Aroclor-1254	380 J	41	37	33 U	2,000	37 U	36 U	1,700 J	38 U	38 U	2,000
<b>METALS - RAS (mg/kg)</b>											
Aluminum	5,110	3,390	3,070	2,020	--	3,860	3,720	3,950	3,680	3,880	--
Antimony	0.48 J	0.49 UJ	0.47 UJ	0.46 UJ	10	0.51 UJ	21.4 J	0.54 UJ	0.49 UJ	0.52 UJ	40
Arsenic	1.3	1.7	1.6	1.0	30	14.3	5.5	14.7	7.1	6.6	30
Barium	18.3	8.1	7.1	10.4	1,000	55.1	165	125	86.8	28.9	2,500
Beryllium	0.02 U	0.04 U	0.06 U	0.04 U	1	0.12 U	0.11 U	0.59	0.11 U	0.09 U	0.8
Cadmium	0.09 U	0.09 U	0.09 U	0.08 U	30	0.09 U	1.9	0.34 U	0.09 U	0.09 U	80
Calcium	559	556	497	966	--	737	4,900	6,110	1,400	1,500	--
Chromium	4.4	7.1	6.2	3.8	1,000	4.5	9.1	5.7	9.1	8.5	2,500
Cobalt	1.5	1.8	1.5	1.2	500	2.7	3.5	3.5	3.1	2.3	5,000
Copper	4.7	7.3	5.2	6.7	1,000	16.5	47.7	57.5	32.8	28.5	10,000
Iron	5,770	6,370	5,600	3,400	--	9,730	17,400	10,700	16,600	12,400	--
Lead	30.0 J	5.4 J	5.1 J	13.4 J	300	105 J	3,640 J	379 J	151 J	99.7 J	600
Magnesium	834	1,260	1,100	858	--	929	1,290	1,880	1,280	943	--
Manganese	91.8	65.9	61.4	51.8	--	65.9	141	122	121	85.7	--
Mercury	0.06 UJ	0.06 UJ	0.05 UJ	0.05 UJ	20	0.05 UJ	0.07 UJ	0.27 J	0.41 J	0.08 UJ	60
Nickel	2.8	3.8	3.2	3.0	300	5.1	7.6	8.0	8.0	5.5	700
Potassium	253	556	442	256	--	985	324	480	433	308	--
Selenium	0.39 U	0.55 U	0.39 U	0.39 U	400	1.7 U	0.96 U	2.8	1.1 U	1.1 U	2,500
Silver	0.13 U	0.13 U	0.09 U	0.08 U	100	0.23 U	0.82	0.15 U	0.31 U	0.23 U	200
Sodium	94.0	132	98.2	117	--	255	129	305	132	114	--
Vanadium	8.6	10.1	8.5	4.9	400	9.2	11.7	14.9	22.8	11.5	2,000
Zinc	20.0	14.4	13.1	13.2	2,500	58.9	327	142	85.1	55.8	2,500

**TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS \***  
**BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999**

LOT NUMBER	1B	8		9	Reportable Concentrations **	2	3		4		Reportable Concentrations **
	SS-02	SS-09	SS-09	SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
LOCATION NAME											
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0		0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF		SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99		09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	
COMMENTS			FD		RCS-1						RCS-2
<b>INORGANICS - RAS (mg/kg)</b>											
None Detected											
<b>LAB SAMPLE ID</b>											
Volatile Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Extractable Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Semivolatile Organic Compounds	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Pesticides/PCBs	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Inorganics (Metals/Cyanide)	MALP88	MALP97	MALP98	MALP99		MALP89	MALP90	MALP91	MALP92	MALP93	

TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS \*  
 BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOCATION NAME SAMPLE DEPTH (ft bgs) M&E SAMPLE ID DATE SAMPLED COMMENTS	5	6	7	8		9	Reportable Concentrations ** RCS-2
	SS-06 0.0 - 3.0 SS0601STF 09/28/99	SS-07 0.0 - 3.0 SS0701STF 09/28/99	SS-08 0.0 - 3.0 SS0801STF 09/28/99	SS-09 0.0 - 3.0 SS0901STF 09/28/99		SS-10 0.0 - 3.0 SS1001STF 09/28/99	
					FD		
<b>PARAMETER/ANALYTE</b>							
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)</b>							
None Detected							
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)</b>							
C <sub>9</sub> -C <sub>18</sub> Aliphatics (1)							2,500,000
C <sub>19</sub> -C <sub>36</sub> Aliphatics (1)	3,200 U	3,200 U	2,900 U	3,100 U	3,200 U	2,900 U	5,000,000
C <sub>11</sub> -C <sub>22</sub> Aromatics (1,2)	14,000	7,500	3,900 U	4,200 U	4,200 U	3,900 U	2,000,000
	60,000	49,000	8,900	8,900 U	9,000 U	8,300 U	
Naphthalene	540 U	530 U	480 U	520 U	530 U	490 U	1,000,000
2-Methylnaphthalene	540 U	530 U	480 U	520 U	530 U	490 U	1,000,000
Acenaphthylene	540 U	530 U	480 U	520 U	530 U	490 U	1,000,000
Acenaphthene	540 U	530 U	480 U	520 U	530 U	490 U	2,500,000
Fluorene	540 U	530 U	480 U	520 U	530 U	490 U	2,000,000
Phenanthrene	1,900	3,400	480 U	520 U	530 U	490 U	100,000
Anthracene	540 U	820	480 U	520 U	530 U	490 U	1,000,000
Fluoranthene	3,200	4,900	480 U	520 U	530 U	490 U	1,000,000
Pyrene	3,800	4,800	480 U	520 U	530 U	490 U	2,000,000
Benzo(a)anthracene	1,800	2,200	480 U	520 U	530 U	490 U	1,000
Chrysene	1,900	2,100	480 U	520 U	530 U	490 U	10,000
Benzo(b)fluoranthene	1,700	1,900	480 U	520 U	530 U	490 U	1,000
Benzo(k)fluoranthene	1,200	1,600	480 U	520 U	530 U	490 U	10,000
Benzo(a)pyrene	1,800	2,100	480 U	520 U	530 U	490 U	700
Indeno(1,2,3-cd)pyrene (3)	1,800	2,100	480 U	520 U	530 U	490 U	1,000
Dibenzo(a,h)anthracene (3)	1,800	2,100	480 U	520 U	530 U	490 U	700
Benzo(g,h,i)perylene	1,300	1,400	480 U	520 U	530 U	490 U	2,500,000
<b>SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)</b>							
Naphthalene	500 J	280 J	330 U	350 U	340 U	18 J	1,000,000
2-Methylnaphthalene	170 J	3,700 UJ	330 UJ	350 UJ	340 UJ	340 UJ	1,000,000
Acenaphthylene	540 J	560 J	330 U	350 U	340 U	340 U	1,000,000
Acenaphthene	770 J	580 J	330 U	350 U	340 U	340 U	2,500,000
Dibenzofuran	570 J	370 J	330 U	350 U	340 U	340 U	1,000,000
Fluorene	840 J	540 J	330 U	350 U	340 U	340 U	2,000,000
Phenanthrene	7,600	5,400	35 J	22 J	27 J	84 J	100,000
Anthracene	1,800 J	1,400 J	330 U	350 U	340 U	25 J	1,000,000
Carbazole	880 J	650 J	330 U	350 U	340 U	340 U	-
Fluoranthene	9,400	8,900	70 J	41 J	72 J	170 J	1,000,000
Pyrene	8,600	8,200	56 J	35 J	60 J	140 J	2,000,000
Benzo(a)anthracene	4,200	4,700	33 J	23 J	37 J	91 J	1,000
Chrysene	4,400	4,900	35 J	27 J	35 J	96 J	10,000
Benzo(b)fluoranthene	3,100 J	4,600	24 J	21 J	33 J	76 J	1,000
Benzo(k)fluoranthene	4,400	5,200	48 J	25 J	33 J	92 J	10,000
Benzo(a)pyrene	4,300	5,500	31 J	21 J	36 J	92 J	700

TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS \*  
 BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOCATION NAME SAMPLE DEPTH (ft bgs) M&E SAMPLE ID DATE SAMPLED COMMENTS	5	6	7	8		9	Reportable Concentrations ** RCS-2
	SS-06 0.0 - 3.0 SS0601STF 09/28/99	SS-07 0.0 - 3.0 SS0701STF 09/28/99	SS-08 0.0 - 3.0 SS0801STF 09/28/99	SS-09 0.0 - 3.0 SS0901STF 09/28/99		SS-10 0.0 - 3.0 SS1001STF 09/28/99	
					FD		
Indeno(1,2,3-cd)pyrene	2,400 J	3,300 J	25 J	350 U	22 J	59 J	700
Dibenz(a,h)anthracene	950 J	1,300 J	330 U	350 U	340 U	28 J	700
Benzo(g,h,i)perylene	2,600 J	3,800	25 J	19 J	24 J	66 J	2,500,000
<b>PESTICIDES - RAS (ug/Kg)</b>							
beta-BHC	1.8 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	100,000
Heptachlor	1.8 U	1.7 U	1.7 U	0.29 J	0.62 J	0.69 J	200
4,4'-DDE	38 J	R	3.3 U	3.4 U	3.5 U	3.3 U	2,000
Endrin	3.6 UJ	3.4 UJ	3.3 UJ	3.4 UJ	3.5 UJ	3.3 UJ	50
Endosulfan II	3.6 U	3.4 U	3.3 U	3.4 U	3.5 U	3.3 U	50
4,4'-DDD	R	R	3.3 U	3.4 U	3.5 U	3.3 U	3,000
Endosulfan sulfate (4)	3.6 U	R	3.3 U	3.4 U	3.5 U	3.3 U	50
4,4'-DDT	R	49 J	2.3 J	6.7 J	4.4 J	4.7 J	2,000
Methoxychlor	18 UJ	17 UJ	17 UJ	18 UJ	18 UJ	17 UJ	30,000
Endrin ketone (5)	21	10	3.3 U	3.4 U	3.5 U	3.3 U	1,000
Endrin aldehyde	3.6 U	3.4 U	3.3 U	3.4 U	3.5 U	3.3 U	100,000
alpha-Chlordane	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	2,000
gamma-Chlordane	1.8 U	R	1.7 U	1.8 U	1.8 U	1.7 U	2,000
<b>PCBS - RAS (ug/kg)</b>							
Aroclor-1254	360 J	380	33 U	41	37	33 U	2,000
<b>METALS - RAS (mg/kg)</b>							
Aluminum	3,940	3,650	2,620	3,390	3,070	2,020	—
Antimony	0.47 UJ	0.49 UJ	0.45 UJ	0.49 UJ	0.47 UJ	0.46 UJ	40
Arsenic	3.9	3.5	1.3	1.7	1.6	1.0	30
Barium	54.2	37.5	8.1	8.1	7.1	10.4	2,500
Beryllium	0.09 U	0.11 U	0.06 U	0.04 U	0.06 U	0.04 U	0.8
Cadmium	0.09 U	0.09 U	0.08 U	0.09 U	0.09 U	0.08 U	80
Calcium	1,180	1,070	468	556	497	966	—
Chromium	10.6	6.4	4.3	7.1	6.2	3.8	2,500
Cobalt	2.6	2.2	1.4	1.8	1.5	1.2	5,000
Copper	20.8	15.5	4.4	7.3	5.2	6.7	10,000
Iron	6,130	6,290	4,500	6,370	5,600	3,400	—
Lead	134 J	66.4 J	5.0 J	5.4 J	5.1 J	13.4 J	600
Magnesium	1,460	1,190	891	1,260	1,100	858	—
Manganese	76.5	84.5	58.2	65.9	61.4	51.8	—
Mercury	0.09 UJ	0.05 UJ	0.05 UJ	0.06 UJ	0.05 UJ	0.05 UJ	60
Nickel	6.8	4.8	3.4	3.8	3.2	3.0	700
Potassium	466	433	251	556	442	256	—
Selenium	0.42 U	0.49 U	0.42 U	0.55 U	0.39 U	0.39 U	2,500
Silver	0.17 U	0.13 U	0.16 U	0.13 U	0.09 U	0.08 U	200
Sodium	94.9	122	95.9	132	98.2	117	—
Vanadium	10.6	11.1	5.8	10.1	8.5	4.9	2,000
Zinc	69.5	39.3	11.9	14.4	13.1	13.2	2,500

**TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS \*  
 BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999**

LOCATION NAME SAMPLE DEPTH (ft bgs) M&E SAMPLE ID DATE SAMPLED COMMENTS	5	6	7	8		9	Reportable Concentrations ** RCS-2
	SS-06 0.0 - 3.0 SS0601STF 09/28/99	SS-07 0.0 - 3.0 SS0701STF 09/28/99	SS-08 0.0 - 3.0 SS0801STF 09/28/99	SS-09 0.0 - 3.0 SS0901STF 09/28/99 SSK0901STF 09/28/99		SS-10 0.0 - 3.0 SS1001STF 09/28/99	
<b>INORGANICS - RAS (mg/kg)</b> None Detected							
<b>LAB SAMPLE ID</b>							
Volatile Petroleum Hydrocarbons	43026-6	43026-7	43026-8	43026-9	43026-10	43026-11	
Extractable Petroleum Hydrocarbons	43026-6	43026-7	43026-8	43026-9	43026-10	43026-11	
Semivolatile Organic Compounds	APF85	APF86	APF87	APF88	APF89	APF90	
Pesticides/PCBs	APF85	APF86	APF87	APF88	APF89	APF90	
Inorganics (Metals/Cyanide)	MALP94	MALP95	MALP96	MALP97	MALP98	MALP99	

**TABLE 4-1 NOTES:**

ft bgs - feet below ground surface

FD - Field Duplicate

J - Quantitation is approximate due to limitations identified in the quality control review.

R - Value is rejected.

U - Value reported is the sample-specific detection limit.

UJ - Sample-specific detection limit is approximate due to limitations identified in the quality control review.

-- No Reportable Concentration

**MADEP Criteria**

S-1 Reportable Concentrations, 310 CMR 40.0000 Subpart P Massachusetts Oil and Hazardous Material List

S-2 Reportable Concentrations, 310 CMR 40.0000 Subpart P Massachusetts Oil and Hazardous Material List

\* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

\*\* - Values shown for standards are in the same units as the analytical data.

1. Hydrocarbon range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2. C<sub>11</sub>-C<sub>22</sub> Aromatic hydrocarbons exclude the concentration of target PAH analytes.
3. Values reported reflect their sum.
4. Reportable concentration for Endosulfan shown.
5. Reportable concentration for Endrin and Metabolites shown.

**TABLE 4-2. SUMMARY OF ANALYTICAL DATA -- GROUNDWATER \*  
B TSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999**

LOT NUMBER LOCATION NAME SAMPLE DEPTH (ft bgs) ** M&E SAMPLE ID DATE SAMPLED COMMENTS	1B GW-04 *** 0-10 / 3-8.5		3 GW-01 0-7	7 GW-02 *** 0-10 / 3-8		9 GW-03 1-11	Reportable Concentrations **** RCGW-2
	GW0201STF & GW-02RE /30&11/02/99	GWK-02RE 11/02/99 FD	FGW0401STF 09/30/99	FGW0801STF & GW-08RE 9/30&11/02/99	GWK0801STF 09/30/99 FD	GW1001STF 09/30/99	
<b>PARAMETER/ANALYTE</b>							
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/l)</b>							
C <sub>9</sub> -C <sub>12</sub> Aliphatics (1,2)	100 U	100 U	120	100 U		100 U	1,000
Toluene	15 U	15 U	15 U	15 U		190	6,000
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/l)</b>							
C <sub>19</sub> -C <sub>36</sub> Aliphatics (1)	50 U	48 U	41 U	150		41 U	20,000
C <sub>11</sub> -C <sub>22</sub> Aromatics (1,3)	110 U	100 U	220 J	110 U		87 U	30,000
Naphthalene	6.2 U	6.0 U	8.1 J	6.2 U		5.1 U	6,000
2-Methylnaphthalene	6.2 U	6.0 U	14 J	6.2 U		5.1 U	3,000
<b>PESTICIDES - RAS (µg/l)</b>							
alpha-BHC	0.050 U	0.050 U	0.26	0.050 U		(5)	5,000
Heptachlor	0.031 J	0.021 J	0.059 J	0.050 U		(5)	1
4,4'-DDE	0.10 U	0.10 U	0.16	0.10 U		(5)	100
4,4'-DDT	0.10 U	0.10 U	0.15 J	0.10 U		(5)	0.3
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.023 J		(5)	2
<b>PCBS - RAS (µg/l)</b>							
Aroclor-1254	1.0 U	1.0 U	2.6 J	1.0 U		(5)	0.3
<b>METALS - RAS (µg/l) (4)</b>							
Aluminum	66.7 U		98.4 U	51.4 U	46.3 U	2,530	-
Antimony	2.2 UJ		2.2 UJ	2.2 UJ	2.2 UJ	352 J	300
Arsenic	2.1 U		2.8 U	3.8 U	2.9 U	46.1	400
Barium	40.4		756	10.4 U	9.3 U	2,830	30,000
Beryllium	0.10 U		0.20 U	0.10 U	0.10 U	47.3	50
Cadmium	0.40 U		2.4	0.40 U	0.40 U	53.0	10
Calcium	56,000		508,000	88,700	86,500	494,000	-
Chromium	0.70		0.30 U	0.30 U	0.30 U	196	2,000
Cobalt	0.60 U		0.60 U	0.80 B	0.70	505	-
Copper	2.0 U		R	2.0 U	2.0 U	293	100,000
Iron	6,650		2,770	1,410	1,450	3,650	-
Lead	1.0 U		1.0 U	1.0 U	1.0 U	18.6	30
Magnesium	8,650		312,000	22,100	20,800	304,000	-
Manganese	373		550	940	878	1,030	-
Nickel	0.80 J		0.70 U	1.4 J	1.4 J	522	80
Potassium	6,360		120,000	18,100	16700	117,000	-
Selenium	1.8 U		1.8 U	1.8 U	1.8 U	9.8	80
Silver	0.40 U		0.40 UJ	0.40 U	0.40 U	58.8	7
Sodium	8,940		2,310,000	63,200	58,700	2,220,000	-
Thallium	2.0 U		2.0 U	2.3	2.0 U	50.1	400
Vanadium	0.90		0.80 UJ	0.80 U	0.80 U	503	2,000
Zinc	16.3 U		16.3 U	16.3 U	16.3 U	480	900
<b>INORGANICS - RAS (µg/l)</b>							
Cyanide	11.1 J		0.90 UJ	0.93 J	0.90 UJ	(5)	10
<b>LAB SAMPLE ID</b>							
Volatile Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Extractable Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Pesticides/PCBs	AQL49	AQL50	APG52	AQL51			
Inorganics (Metals/Cyanide)	MALQ07		MALQ02	MALQ04	MALQ06	MALQ03	

**TABLE 4-2 NOTES:**

ft bgs - feet below ground surface

FD - Field Duplicate

J - Quantitation is approximate due to limitations identified in the quality control review.

NA - Not Applicable (MCP footnote)

R - Value is rejected.

U - Value reported is the sample-specific detection limit.

UJ - Sample-specific detection limit is approximate due to limitations identified in the quality control review.

-- No Reportable Concentration

**MADEP Criteria**

GW-2 Reportable Concentrations, 310 CMR 40.0000 Subpart P Massachusetts Oil and Hazardous Material List

\* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

\*\* - Screened interval depth.

\*\*\* - Inorganic data from 9/30/99 sampling effort; organic data from 11/02/99 sampling effort.

\*\*\*\* - Values shown for standards are in the same units as the analytical data.

1. Hydrocarbon range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2. C<sub>9</sub>-C<sub>12</sub> Aliphatic hydrocarbons exclude the concentration of target analytes eluting in that range and the concentration of C<sub>9</sub>-C<sub>10</sub> aromatic hydrocarbons.
3. C<sub>11</sub>-C<sub>22</sub> Aromatic hydrocarbons exclude the concentration of target PAH analytes.
4. Groundwater samples for metals were field filtered, with the exception of GW-03.
5. Sample volume not collected for this analysis due to poor recharge.

TABLE 5-1. SUMMARY OF RISK SCREENING – SURFACE SOILS \*  
B TSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER	1B	2	3	4	5	6	7	8	9	MCP Method 1 Soil Standards **	
LOCATION NAME	SS-02	SS-03	SS-04A/B	SS-05A/B	SS-06	SS-07	SS-08	SS-09	SS-10		
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	
M&E SAMPLE ID	SS0201STF	SS0301STF	SS0401STF	SS0501STF	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SS1001STF		
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99		
COMMENTS											
PARAMETER/ANALYTE											
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)</b>											
None Detected											
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)</b>											
C <sub>9</sub> -C <sub>18</sub> Aliphatics			2,450	ND	ND	ND	ND	ND	ND	2,500,000	2,500,000
C <sub>19</sub> -C <sub>36</sub> Aliphatics	ND	ND	34,500	25,500	14,000	7,500	ND	ND	ND	5,000,000	5,000,000
C <sub>11</sub> -C <sub>22</sub> Aromatics	ND	23,000	150,000	182,500	60,000	49,000	8,900	ND	ND	2,000,000	2,000,000
Naphthalene	ND	ND	ND	793	ND	ND	ND	ND	ND	1,000,000	1,000,000
2-Methylnaphthalene	ND	ND	ND	503	ND	ND	ND	ND	ND	1,000,000	1,000,000
Acenaphthylene	ND	ND	ND	693	ND	ND	ND	ND	ND	2,500,000	1,000,000
Acenaphthene	ND	ND	ND	1,143	ND	ND	ND	ND	ND	2,500,000	2,500,000
Fluorene	ND	ND	428	1,443	ND	ND	ND	ND	ND	2,000,000	2,000,000
Phenanthrene	ND	1,500	7,300	10,750	1,900	3,400	ND	ND	ND	2,500,000	100,000
Anthracene	ND	ND	1,850	2,143	ND	820	ND	ND	ND	2,500,000	2,500,000
Fluoranthene	ND	1,600	14,500	13,500	3,200	4,900	ND	ND	ND	2,000,000	1,000,000
Pyrene	ND	1,500	15,000	15,950	3,800	4,800	ND	ND	ND	2,000,000	2,000,000
Benzo(a)anthracene	ND	780	7,900	7,000	1,800	2,200	ND	ND	ND	1,000	1,000
Chrysene	ND	850	6,300	7,000	1,900	2,100	ND	ND	ND	10,000	10,000
Benzo(b)fluoranthene	ND	580	6,700	5,700	1,700	1,900	ND	ND	ND	1,000	1,000
Benzo(k)fluoranthene	ND	770	4,950	5,250	1,200	1,600	ND	ND	ND	10,000	10,000
Benzo(a)pyrene	ND	770	7,000	6,600	1,800	2,100	ND	ND	ND	700	700
Indeno(1,2,3-cd)pyrene	ND	820	7,250	6,250	1,800	2,100	ND	ND	ND	1,000	1,000
Dibenzo(a,h)anthracene	ND	820	7,250	6,250	1,800	2,100	ND	ND	ND	700	700
Benzo(g,h,i)perylene	ND	ND	5,150	4,700	1,300	1,400	ND	ND	ND	2,500,000	2,500,000
<b>SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)</b>											
Naphthalene	ND	140 J	480	865	500 J	280 J	ND	ND	18 J	1,000,000	1,000,000
2-Methylnaphthalene	ND	49 J	345	1,190	170 J	ND	ND	ND	ND	1,000,000	1,000,000
Acenaphthylene	29 J	59 J	950	1,550	540 J	560 J	ND	ND	ND	2,500,000	1,000,000
Acenaphthene	28 J	140 J	835	1,370	770 J	580 J	ND	ND	ND	2,500,000	2,500,000
Dibenzofuran	19 J	110 J	540	1,005	570 J	370 J	ND	ND	ND	-	-
Fluorene	27 J	140 J	1,500	1,510	840 J	540 J	ND	ND	ND	2,000,000	2,000,000
Phenanthrene	360	1,100	12,500	12,500	7,600	5,400	35 J	25 J	84 J	2,500,000	100,000
Anthracene	83 J	250 J	3,750	3,900	1,800 J	1,400 J	ND	ND	25 J	2,500,000	2,500,000
Carbazole	42 J	150 J	13,850	1,535	880 J	650 J	ND	ND	ND	-	-
Fluoranthene	650	1,400	17,500	18,000	9,400	8,900	70 J	57 J	170 J	2,000,000	1,000,000
Pyrene	530	1,100	19,500	17,000	8,600	8,200	56 J	48 J	140 J	2,000,000	2,000,000
Benzo(a)anthracene	290 J	640	9,450	10,100	4,200	4,700	33 J	30 J	91 J	1,000	1,000
Chrysene	320 J	700	9,150	10,300	4,400	4,900	35 J	31 J	96 J	10,000	10,000
Benzo(b)fluoranthene	250 J	580	8,400	8,650	3,100 J	4,600	24 J	27 J	76 J	1,000	1,000
Benzo(k)fluoranthene	340 J	620	8,000	8,550	4,400	5,200	48 J	29 J	92 J	10,000	10,000
Benzo(a)pyrene	310 J	650	9,400	10,550	4,300	5,500	31 J	29 J	92 J	700	700
Indeno(1,2,3-cd)pyrene	190 J	370 J	5,800	6,100	2,400 J	3,300 J	25 J	ND	59 J	1,000	1,000

TABLE 5-1. SUMMARY OF RISK SCREENING -- SURFACE SOILS \*  
B TSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	2	3	4	5	6	7	8	9	MCP Method 1 Soil Standards **	
LOCATION NAME	SS-02	SS-03	SS-04A/B	SS-05A/B	SS-06	SS-07	SS-08	SS-09	SS-10		
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0		
M&E SAMPLE ID	SS0201STF	SS0301STF	SS0401STF	SS0501STF	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SS1001STF		
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99		
COMMENTS										S-2/GW-2	S-2/GW-3
Dibenz(a,h)anthracene	65 J	190 J	2,300	2,350	950 J	1,300 J	ND	ND	28 J	700	700
Benzo(g,h,i)perylene	190 J	400	6,500	7,200	2,600 J	3,800	25 J	22 J	66 J	2,500,000	2,500,000
<b>PESTICIDES - RAS (ug/kg)</b>											
beta-BHC	3.9 J	ND	R	ND	ND	ND	ND	ND	ND	--	--
Heptachlor	R	ND	ND	ND	ND	ND	ND	0.46 J	0.69 J	200	200
4,4'-DDE	20 J	ND	82 J	R	38 J	R	ND	ND	ND	2,000	2,000
Endrin	R	7.7 J	ND	10,000	1,000						
Endosulfan II	4.0 J	ND	2.7	ND	ND	ND	ND	ND	ND	400,000	50
4,4'-DDD	ND	R	ND	37	R	R	ND	ND	ND	3,000	3,000
Endosulfan sulfate	13 J	R	22 J	10	ND	R	ND	ND	ND	--	--
4,4'-DDT	75	11 J	300 J	R	R	49 J	2.3 J	5.6 J	4.7 J	2,000	2,000
Methoxychlor	40	53 J	95	R	ND	ND	ND	ND	ND	300,000	30,000
Endrin ketone	ND	17 J	54	56 J	21	10	ND	ND	ND	--	--
Endrin aldehyde	R	7.0 J	5.5 J	31	ND	ND	ND	ND	ND	--	--
alpha-Chlordane	8.6 J	ND	2,000	2,000							
gamma-Chlordane	R	ND	2.6 J	3.7 J	ND	R	ND	ND	ND	2,000	2,000
<b>PCBS - RAS (ug/kg)</b>											
Aroclor-1254	380 J	ND	859	ND	360 J	380	ND	39	ND	2,000	2,000
<b>METALS - RAS (mg/kg)</b>											
Aluminum	5,110	3,860	3,835	3,780	3,940	3,650	2,620	3,230	2,020	--	--
Antimony	0.48 J	ND	10.8	ND	ND	ND	ND	ND	ND	40	40
Arsenic	1.3	14.3	10.1	6.9	3.9	3.5	1.3	1.7	1.0	30	30
Barium	18.3	55.1	145	57.9	54.2	37.5	8.1	7.6	10.4	2,500	2,500
Beryllium	ND	ND	0.32	ND	ND	ND	ND	ND	ND	1	1
Cadmium	ND	ND	1.0	ND	ND	ND	ND	ND	ND	80	80
Calcium	559	737	5,505	1,450	1,180	1,070	468	527	966	--	--
Chromium	4.4	4.5	7.4	8.8	10.6	6.4	4.3	6.7	3.8	2,500	2,500
Cobalt	1.5	2.7	3.5	2.7	2.6	2.2	1.4	1.7	1.2	--	--
Copper	4.7	16.5	52.6	30.7	20.8	15.5	4.4	6.3	6.7	--	--
Iron	5,770	9,730	14,050	14,500	6,130	6,290	4,500	5,985	3,400	--	--
Lead	30.0 J	105 J	2,010	125.4	134 J	66.4 J	5.0 J	5.3 J	13.4 J	600	600
Magnesium	834	929	1,585	1,112	1,460	1,190	891	1,180	858	--	--
Manganese	91.8	65.9	132	103.4	76.5	84.5	58.2	63.7	51.8	--	--
Mercury	ND	ND	0.15	0.23	ND	ND	ND	ND	ND	60	60
Nickel	2.8	5.1	7.8	6.8	6.8	4.8	3.4	3.5	3.0	700	700
Potassium	253	985	402	371	466	433	251	499	256	--	--
Selenium	ND	ND	1.6	ND	ND	ND	ND	ND	ND	2,500	2,500
Silver	ND	ND	0.45	ND	ND	ND	ND	ND	ND	200	200
Sodium	94.0	255	217	123	94.9	122	95.9	115	117	--	--
Vanadium	8.6	9.2	13.3	17.2	10.6	11.1	5.8	9.3	4.9	2,000	2,000
Zinc	20.0	58.9	235	70.5	69.5	39.3	11.9	13.8	13.2	2,500	2,500
<b>INORGANICS - RAS (mg/kg)</b>											
None Detected											

**TABLE 5-1 NOTES:**

ft bgs - feet below ground surface

ND - Not detected above the sample-specific detection limit.

J - Quantitation is approximate due to limitations identified in the quality control review.

R - Value is rejected.

-- No MCP standard

**MADEP Criteria**

MCP Method 1 Soil Category S-2 Standards, Table 3

\* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

\*\* - Values shown for standards are in the same units as the analytical data.

TABLE 5-2. SUMMARY OF RISK SCREENING – GROUNDWATER \*  
 BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER LOCATION NAME SAMPLE DEPTH (ft bgs) ** M&E SAMPLE ID DATE SAMPLED COMMENTS	1B	3	7	9	MCP Method 1 Groundwater Standards ****	
	GW-04 *** 0-10 / 3-8.5 GW0201STF & GW-02RE /30&11/02/99	GW-01 0-7 FGW0401STF 09/30/99	GW-02 *** 0-10 / 3-8 GWK0801STF 09/30/99	GW-03 1-11 GW1001STF 09/30/99	GW-2	GW-3
<b>PARAMETER/ANALYTE</b>						
<b>VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (ug/l)</b>						
C <sub>9</sub> -C <sub>12</sub> Aliphatics	ND	120	ND	ND	1,000	20,000
Toluene	ND	ND	ND	190	6,000	50,000
<b>EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (ug/l)</b>						
C <sub>15</sub> -C <sub>36</sub> Aliphatics	ND	ND	150	ND	NA	20,000
C <sub>11</sub> -C <sub>22</sub> Aromatics	ND	220 J	ND	ND	50,000	30,000
Naphthalene	ND	8.1 J	ND	ND	6,000	6,000
2-Methylnaphthalene	ND	14 J	ND	ND	10,000	3,000
<b>PESTICIDES - RAS (ug/l)</b>						
alpha-BHC	ND	0.26	ND	(2)	–	–
Heptachlor	0.026	0.059 J	ND	(2)	NA	1
4,4'-DDE	ND	0.16	ND	(2)	NA	100
4,4'-DDT	ND	0.15 J	ND	(2)	NA	0.3
gamma-Chlordane	ND	ND	0.023 J	(2)	NA	2
<b>PCBS - RAS (ug/l)</b>						
Aroclor-1254	ND	2.6 J	ND	(2)	NA	0.3
<b>METALS - RAS (ug/l) (1)</b>						
Aluminum	ND	ND	ND	2,530	–	–
Antimony	ND	ND	ND	352 J	NA	300
Arsenic	ND	ND	ND	46.1	NA	400
Barium	40.4	756	ND	2,830	NA	30,000
Beryllium	ND	ND	ND	47.3	NA	50
Cadmium	ND	2.4	ND	53.0	NA	10
Calcium	56,000	508,000	87,600	494,000	–	–
Chromium	0.70	ND	ND	196	NA	2,000
Cobalt	ND	ND	0.75	505	–	–
Copper	ND	R	ND	293	–	–
Iron	6,650	2,770	1,430	3,650	–	–
Lead	ND	ND	ND	18.6	NA	30
Magnesium	8,650	312,000	21,450	304,000	–	–
Manganese	373	550	909	1,030	–	–
Nickel	0.80 J	ND	1.4 J	522	NA	80
Potassium	6,360	120,000	17,400	117,000	–	–
Selenium	ND	ND	ND	9.8	NA	80
Silver	ND	ND	ND	58.8	NA	7
Sodium	8,940	2,310,000	60,950	2,220,000	–	–
Thallium	ND	ND	1.7	50.1	NA	400
Vanadium	0.90	ND	ND	503	NA	2,000
Zinc	ND	ND	ND	480	NA	900
<b>INORGANICS - RAS (ug/l)</b>						
Cyanide	11.1 J	ND	0.69	(2)	NA	10

**TABLE 5-2 NOTES:**

ft bgs - feet below ground surface

ND - Not detected above sample-specific detection limit.

J - Quantitation is approximate due to limitations identified in the quality control review.

NA - Not Applicable (MCP footnote)

R - Value is rejected.

-- No MCP standard

**MADEP Criteria**

MCP Method 1 Groundwater Standards, Table 1

\* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

\*\* - Screened interval depth.

\*\*\* - Inorganic data from 9/30/99 sampling effort; organic data from 11/02/99 sampling effort.

\*\*\*\* - Values shown for standards are in the same units as the analytical data.

1. Groundwater samples for metals were field filtered, with the exception of GW-03.
2. Sample volume not collected for this analysis due to poor recharge.

A

**APPENDIX A. GEOPHYSICAL SURVEY REPORT**

**GEOPHYSICAL SURVEY  
STANDARD TIMES FIELD SITE  
NEW BEDFORD, MASSACHUSETTS**

***Hager GeoScience, Inc.***

**GEOPHYSICAL SURVEY  
STANDARD TIMES FIELD SITE  
NEW BEDFORD, MASSACHUSETTS**



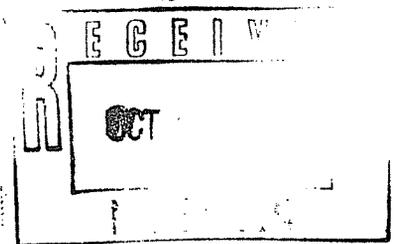
*Prepared for:*

Metcalf & Eddy, Inc.  
30 Harvard Mill Square Rd.  
Wakefield, Massachusetts 01880

*Prepared by:*

Hager GeoScience, Inc.  
174 Lexington Street  
Waltham, Massachusetts 02452-4644

File 99033  
October 1999



*Hager GeoScience, Inc.*

## INTRODUCTION

Metcalf & Eddy, Inc. (M&E) contracted with Hager GeoScience, Inc. (HGI) of Waltham, Massachusetts to perform a geophysical survey at a Brownfield site in New Bedford, Massachusetts under Brownfields Work Assignment #043-SISI-01ZZ. The site, known as the Standard Times Field Site, is located along South Front Street in downtown New Bedford, between Delano and Gifford Streets. The location of the site is shown in Figure 1.

The objective of the survey was to locate an underground storage tank (UST) possibly present at the site and, if located, to stake its location in the field.

## PROCEDURE

HGI personnel performed the geophysical survey on September 28, 1999. An M&E representative, who was present during the survey, designated the survey area and its location. The location was selected to focus on a UST shown on a 1924 Sanborn Map, with the approximate UST location scaled off relative to current features. The grid for the survey area, a baseball field, was laid out using a fiberglass tape and spray paint; home plate was designated Station 0N, 0E.

The geophysical survey was performed using a combination of electromagnetic (EM) terrain conductivity and ground penetrating radar (GPR). The techniques and their limitations are discussed in more detail in a separate section at the end of this report. EM terrain conductivity was used to survey the entire designated survey area, with focused GPR performed in areas of EM anomalies. Figure 2 is a base map prepared from HGI field notes showing the locations of the survey traverses.

### EM Terrain Conductivity

The EM survey was performed using a GEM-300 multi-frequency electromagnetic profiler. The GEM-300 uses multiple EM frequencies to enhance the detection of targets at varying depths. The GEM measures both the in-phase and quadrature-phase (conductivity) response of buried objects to an induced electromagnetic field. Metal objects are generally detected from the in-phase data, while variations in ground (soil and water) conductivity are more apparent in the quadrature-phase data.

EM traverses were made in north-south and east-west directions at a spacing of 10 feet. Data along each traverse were collected continuously and simultaneously at frequencies of 9990 and

7530 Hz. After completion of the fieldwork, the EM data were downloaded to a PC, processed, and contour plots prepared using SURFER® for Windows software.

### **Ground Penetrating Radar**

The GPR survey was performed using a Geophysical Survey Systems, Inc., SIR System 2 digital ground penetrating radar system with 400 MHz antenna and survey wheel. The range was set at 80 nanoseconds (ns), for an estimated depth penetration of 12 to 15 feet. The operator carried the electronics and battery in a harness connected to the antenna by a 3-meter cable. The GPR data were displayed on a color monitor and simultaneously recorded on a hard drive for later processing and interpretation.

## **RESULTS**

Preliminary results of the survey were reported to the M&E representative at the site and a possible UST-related target outlined with stakes in the field. The staked area is plotted to scale on Figure 2, as well as two utilities interpreted on the basis of the GPR data. Contour plots of data from the EM survey are shown in Plates 1 and 2. Data from both east-west and north-south traverses have been contoured; values are shown in parts per million (ppm).

### **EM Terrain Conductivity**

**Plate 1 (Area 1):** Plate 1 shows contoured EM data from the southern portion of the survey area (Area 1 in Figure 2). Because in-phase and quadrature-phase contour plots were very similar, only the contour plots for in-phase data are shown. A large anomaly was detected in the southern half of EM Survey Area 1 between approximately 120E and 190E. The contour plots for data from the east-west traverses in this area show two additional small anomalies in the southwest corner. The negative anomaly near Station 0N, 0E may be related to the presence of home plate at that location, if it has associated metal. The other, positive anomaly may be related to the fence immediately to its south. However, these hypotheses are speculative.

**Plate 2 (Area 2):** Plate 2 shows contoured EM data from the northern portion of the survey area (Area 2 in Figure 2). Because the quadrature-phase plots provide additional information not found in the in-phase plots, this plate includes contours of both in-phase and quadrature-phase data. The quadrature-phase contour plots for EM Survey Area 2 show a distinct linear anomaly trending north-south and centered at 25E that is not visible in the in-phase plots. Since the feature producing this anomaly does not have an in-phase signature, we interpret it as a buried former foundation or possibly a large non-metallic utility.

### **Ground Penetrating Radar**

GPR confirmed that a large anomaly identified in EM Survey Area 1 is composed of concrete with rebar and extends from approximately 120E to 190E. A portion of a GPR record from a traverse across the anomaly is shown in Figure 3. Since a UST might be present beneath the concrete, its location was staked in the field.

The GPR survey in the vicinity of the concrete structure detected several possible utilities, which have been plotted to scale in Figure 2.

Since no anomaly was detected in the in-phase data for EM Survey Area 2, no GPR was performed in that area.

## **THE GEOPHYSICAL TECHNIQUES**

### **GROUND PENETRATING RADAR**

#### **Description of the Method**

The principle of ground penetrating radar (GPR) is the same as that of weather radar, except that GPR transmits electromagnetic energy into the ground, and the energy is reflected back to the surface from interfaces between materials with contrasting electrical (dielectric and conductivity) and physical properties. The greater the contrast between two materials in the subsurface, the stronger the reflection observed on the GPR record. The depth of GPR signal penetration depends on the properties of the subsurface materials and the frequency of the antenna used to collect radar data. The lower the antenna frequency, the deeper the signal penetration but the lower the signal resolution.

We collect GPR data using a Geophysical Survey Systems SIR System 2 digital ground penetrating radar unit, which consists of a 486 computer connected to a transmit/receive antenna. Radar data are collected in discrete measurements (stacking) or continuous profile mode while moving the antenna across the ground and displayed in color on the computer monitor; they are simultaneously recorded on a 500 Mbyte hard drive for later processing and interpretation using proprietary RADAN® software. Hard copies of the data may also be printed in the field on a thermal printer.

#### **Data Analysis and Interpretation**

The horizontal scale of the GPR record shows distance along the survey traverse. In the continuous data collection mode, the horizontal scale on each GPR record is determined by the antenna speed. When a survey wheel is used, as at this site, the GPR record is automatically marked at specified intervals (chosen as one foot for this survey) along the survey line. The vertical scale of the radar records is determined by the recording interval. The recording interval represents the maximum two-way travel time in which data are recorded. The conversion of two-way travel time to depth depends on the propagation velocity of the GPR signal, which is site specific. In the absence of site-specific subsurface information about stratigraphy, we estimate propagation velocities from handbook values and experience at similar sites.

The size, shape, and amplitude of GPR reflections are used to interpret GPR data. Metal objects such as USTs and utilities produce reflections with high amplitude and distinctive hyperbolic shapes in GPR records when traverses are made perpendicular to their long axes. Clay or concrete pipes and boulders may produce radar signatures of similar shape but lower amplitude. The boundaries between saturated and unsaturated materials, sand and clay, and bedrock and

overburden, generally also produce strong reflections.

### **Limitations of the Method**

GPR signal penetration is site specific, determined by the dielectric properties of local soil and fill materials. GPR signals propagate well in resistive materials such as sand and gravel; however, soils containing clay, ash- or cinder-laden fill, or fill saturated with brackish or otherwise conductive groundwater cause GPR signal attenuation and loss of target resolution (i.e., limited detection of small objects). Concrete containing rebar or mesh also inhibits signal penetration.

Interpreted depths of objects detected using GPR are based on on-site calibration, handbook values, and/or estimated GPR signal propagation velocities from similar sites. GPR velocities and depth estimates may vary if the medium of investigation or soil water content is not uniform throughout the site. (Electromagnetic waves do not travel as fast through water as air, so the distance to a reflector below the water table may appear farther than in actuality.)

Utilities are interpreted on the basis of reflectors of similar size and depth that show a linear trend, but GPR cannot unambiguously determine that all such reflectors are related. Fiberglass USTs or utilities composed of plastic or clay may be difficult to detect, as well as objects underneath reinforced concrete pads.

Changes in the speed at which the GPR antenna is moved between stations causes slight variations in distance interpolations, and hence in interpreted object positions.

The GPR antenna produces a cone-shaped signal pattern that emanates approximately 45 degrees from horizontal fore and aft of the antenna. Therefore, buried objects may be detected before the antenna is located directly over them, and GPR anomalies may appear larger than actual target dimensions.

GPR is an interpretive method, based on the subjective identification of reflection patterns that may not uniquely identify a subsurface target. The results must be verified by borings, test pits, or site utility plans.

## **EM TERRAIN CONDUCTIVITY**

### **Description of the Method**

The EM technique operates on the principle that secondary electric and magnetic currents can be induced in metal objects and conductive bodies, such as USTs, utilities, and leachate, when an electric field is applied. This instrumentation measures the secondary magnetic field strength relative to the primary magnetic field and converts it directly into a conductivity value. Both the quadrature-phase (conductivity) and in-phase components of the secondary electric field are measured and values plotted in parts per million (ppm). In general, the quadrature-phase (conductivity) data provide information about soil and groundwater conditions, while the in-phase data provide information about metal objects. The instrument response is more affected by near-surface than by deeper material.

We collect terrain conductivity data using a GEM-300 multi-frequency electromagnetic profiler. The GEM-300 is an electromagnetic induction-type instrument that measures terrain conductivity without electrodes or direct soil contact. The instrument is a hand-held, bistatic EM sensor that operates in the frequency-domain mode. It is field-programmable to operate at simultaneous, multiple frequencies between 325 and 19975 Hz. The GEM sensor contains a transmitter and receiver coil separated by about 5.5 feet, along with a third "bucking coil" that removes the primary field from the receiver coil. All coils are molded into a single board in a fixed geometry.

A removable signal-processing console is attached to the board, from which data are downloaded to a computer and processed. The GEM-300 is capable of detecting underground targets and features to a depth of 26 feet.

### **Data Analysis and Interpretation**

Terrain conductivity surveys are commonly used to determine the lateral extent of fill and detect buried metal objects, utilities, and conductive leachate plumes. Typically, terrain conductivity values measured on fill materials are irregular and highly variable over short distances due to metal and the heterogeneous materials in the subsurface. The edge of fill materials is marked by a change to smoothly varying terrain conductivity values that represent native soils.

At sites free of metal objects and other cultural interference, the soil lithology and/or the conductivity of the ground water control the terrain conductivity measured at a particular location. In the presence of metal, conductivity values are often negative ("polarity reversals") and highly irregular. However, the exact identification of objects cannot be determined from the terrain conductivity data alone. The in-phase component helps confirm the location of metal

objects when correlated with conductivity data. Irregular or high positive or negative in-phase values may be caused by metal objects and help define their lateral extent.

Leachate plumes are generally recognized by relatively smoothly varying, but anomalously elevated, conductivity values, compared to background values for a given site. The value of the in-phase component resulting from conductive plumes generally shows little or no variation.

### **Limitations of the Method**

EM conductivity values are influenced by proximity to aboveground metal objects, such as fences, vehicles, or buildings. Magnetic fields produced along overhead power lines also interfere with terrain conductivity readings.

The shape and amplitude of conductivity and in-phase anomalies do not uniquely describe a buried object or material. Rather, they are influenced by the orientation of EM survey lines and the buried object(s) relative to north, and the orientation of the EM sensor relative to this buried object(s). To better locate the source(s) of EM conductivity and in-phase anomalies, data are frequently collected in two perpendicular directions.

High ambient conductivity readings (from a conductivity plume, sludge, or naturally occurring geologic condition) may mask anomalous conductivity values caused by metal objects. Evaluating the in-phase component of the data minimizes this effect.

Closely buried utilities may produce anomalies that interfere with each other. Hence, in areas where numerous utilities are present, the observed anomaly may result from an interference pattern and may not uniquely describe the location of a specific utility. Further, anomalies often appear larger than the object that produces them.

Smaller utilities, or utilities constructed from reinforced concrete, may be masked by larger utilities constructed of metal. Nonmetallic fill such as unreinforced concrete rubble and utilities constructed from PVC, clay, or unreinforced concrete will not be detected.

Geophysical Survey  
Standard Times Field Site  
New Bedford, Massachusetts

File 99033

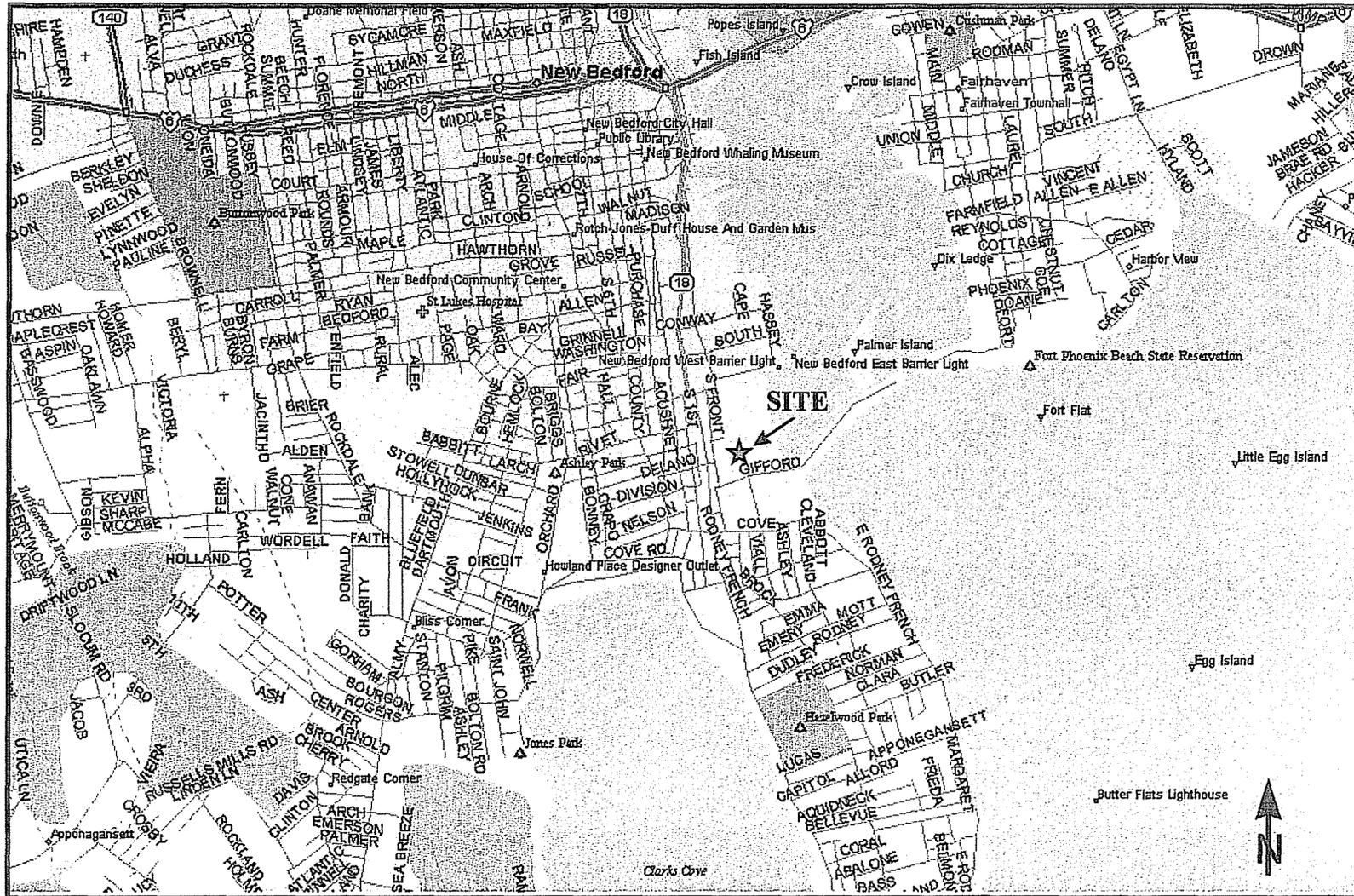


Figure 1. Location of the Standard Times Field Site, New Bedford, Massachusetts. Scale: 1 inch equals approx. 0.5 mi.

Hager GeoScience, Inc.

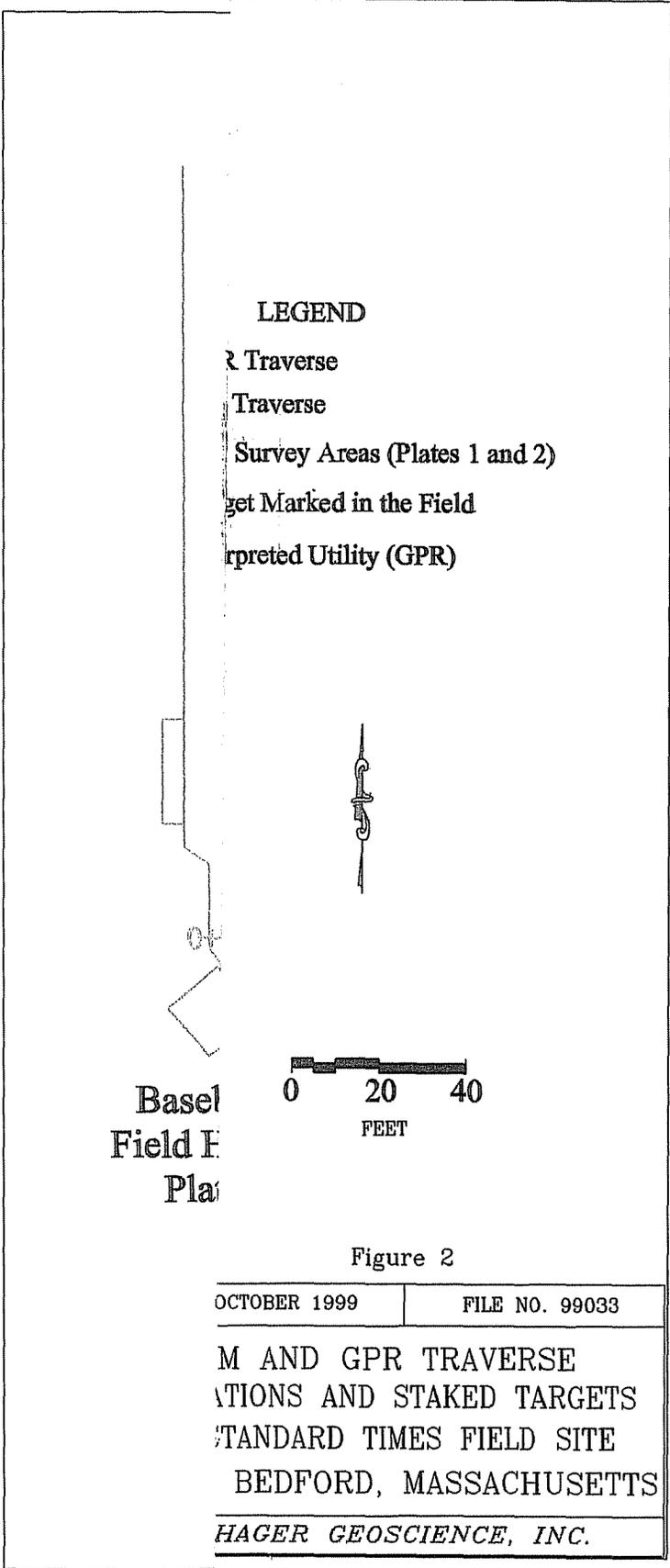


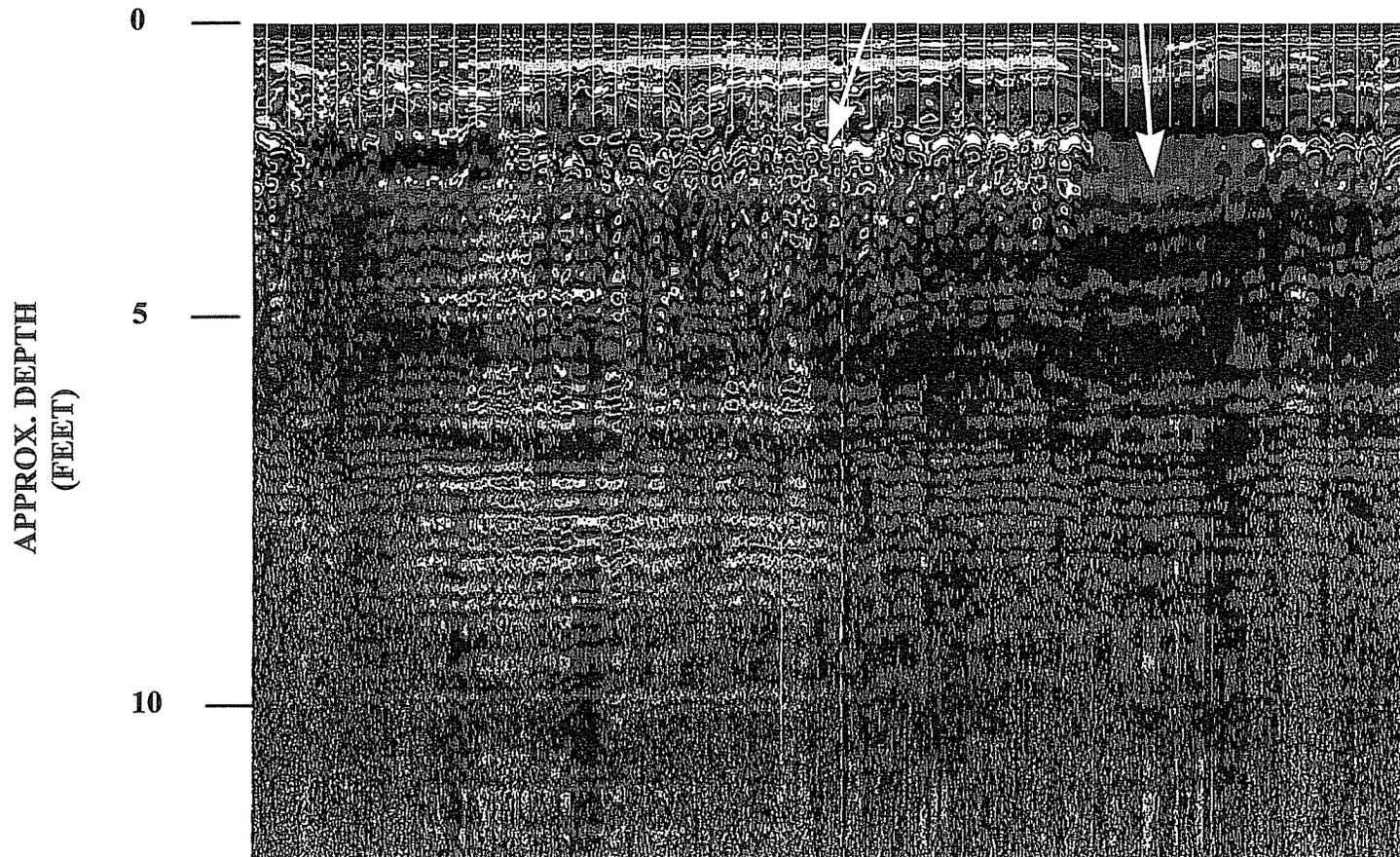
Figure 2

OCTOBER 1999	FILE NO. 99033
M AND GPR TRAVERSE ATIONS AND STAKED TARGETS STANDARD TIMES FIELD SITE BEDFORD, MASSACHUSETTS	
HAGER GEOSCIENCE, INC.	

Geophysical Survey  
Standard Times Field Site  
New Bedford, Massachusetts

File 99033

REBAR      POSSIBLE HOLE OR  
CHANNEL IN CONCRETE



**Figure 3.** GPR record of portion of Traverse 170E across possible concrete vault at Standard Times Field Site. Ticks at top of record are one-foot distance marks produced by survey wheel. Depths are approximate and not linear, based on GPR signal velocities determined from handbook values and from experience at similar sites.

*Hager GeoScience, Inc.*

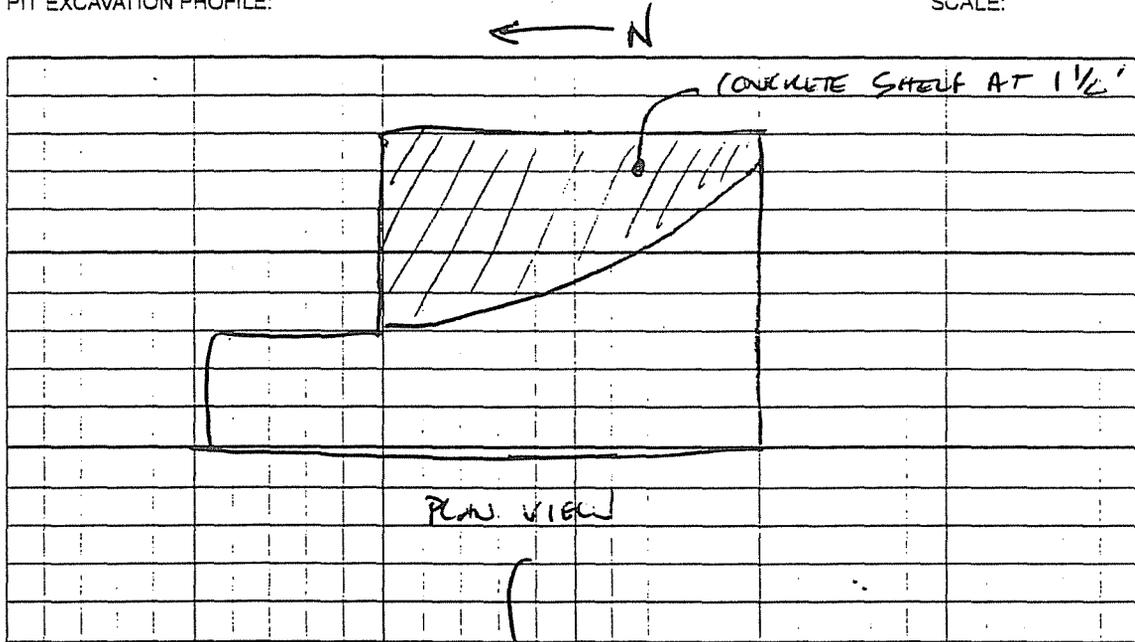
B

**APPENDIX B. TEST PIT EXCAVATION LOGS**

PROJECT: <b>STANDARD TIMES</b>		SHEET: <b>2 OF 4</b>	TEST PIT NO.: <b>TANK-1</b>
SITE LOCATION: <b>NEW BEDFORD</b>	JOB NO.: <b>020255-0002</b>	GROUND ELEV.: <b>74t</b>	TOTAL DEPTH: <b>7ft</b>
	GRID LOCATION: <b>BATHURD</b>		
CONTRACTOR: <b>MRE/CITY</b>	ENG/GEO: <b>N. THURBER</b>	BEGUN: <b>0830</b>	
EQUIPMENT: <b>BACKHOE</b>	OPERATOR: <b>CITY (RAMON)</b>	FINISHED: <b>0930</b>	
PIT/TRENCH DIMENSIONS: <b>10' x 10'</b>	WEATHER: <b>OVERCAST, 70°F</b>	GROUNDWATER (DEPTH): <b>7ft</b>	
SAMPLING METHOD: <b>SUDAN#1 - GW CHECK FOR PROJECT</b>	DECON. USED: <b>Day Burst w/ Seppay water spray</b>	TOP OF ROCK (DEPTH):	

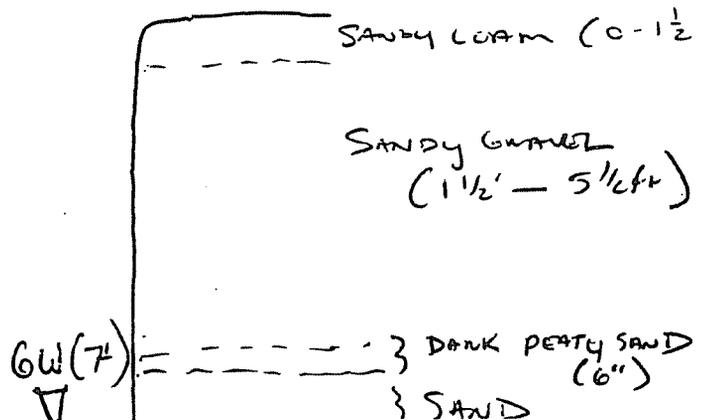
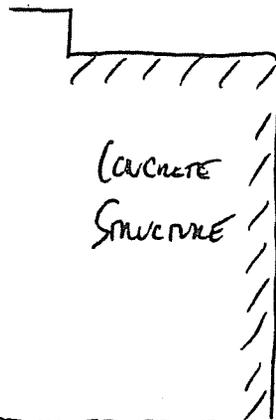
TEST PIT EXCAVATION PROFILE:

SCALE:



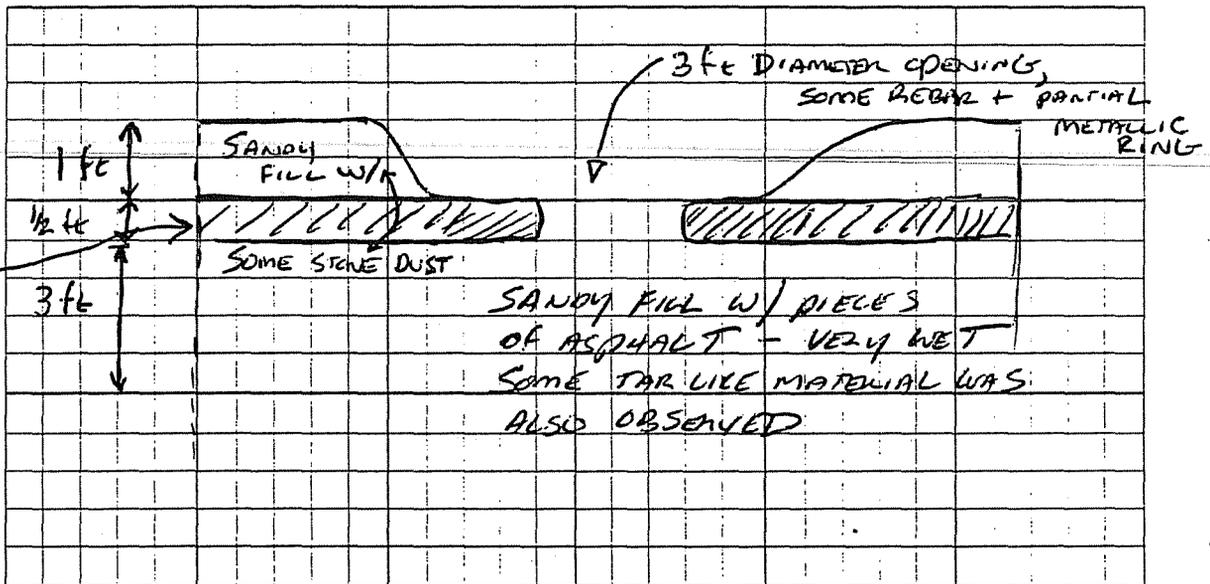
LOCATION OF TEST PITS:

SAMPLE COORDINATES:



PROJECT: <b>STANDARD &amp; TIMES</b>	SHEET: <b>3 OF 4</b>	TEST PIT NO.: <b>TANK-2</b>
SITE LOCATION: <b>NEW BEDFORD</b>	JOB NO.: <b>020655-0002</b>	TOTAL DEPTH: <b>3 ft</b>
	GRID LOCATION: <b>BALL FIELD</b>	GROUNDWATER (DEPTH): <b>* 2 ft (INSIDE TANK)</b>
CONTRACTOR: <b>M&amp;E/CITY</b>	ENG/GEO: <b>N. THURBERG</b>	BEGUN: <b>0930</b>
EQUIPMENT: <b>BACKHOE</b>	OPERATOR: <b>CITY</b>	FINISHED: <b>1030</b>
PIT/TRENCH DIMENSIONS: <b>4 x 4 x 3' DEEP</b>	WEATHER: <b>OVERCAST, 70°F</b>	TOP OF ROCK (DEPTH):
SAMPLING METHOD:	DECON. USED: <b>DRY BRUSH w/ SANDY WATER SPRAY</b>	SCALE: <b>1 ft TO CONCRETE TANK</b>
TEST PIT EXCAVATION PROFILE:		

CONCRETE SHELF OR SLAB.  
ASSUMED TO BE TOP OF FORMER 150,000 GALLON UST.



LOCATION OF TEST PITS: **ALONG RIGHT FIELD FAULT LINE OF BALL FIELD  
SEE BTSA REPORT FIGURE**

SAMPLE COORDINATES:

\* GROUNDWATER - UPON REMOVAL OF 3 ft OF SATURATED SANDY FILL KNOWN WITHIN OPENING, THE WATER LEVEL ROSE TO 1 FOOT BELOW THE TOP OF THE CONCRETE SHELF / SLAB (2 FEET BELOW GROUND SURFACE)





PROJECT: <u>STANDARD TINES</u>		SHEET: <u>1 OF 1</u>	TEST PIT NO.: <u>TP-01</u>
SITE LOCATION: <u>NEW BEDFORD, MA</u>	JOB NO.: <u>020655-0002</u>	GROUND ELEV.: <u>-</u>	TOTAL DEPTH: <u>6.5 ft</u>
	GRID LOCATION: <u>COAL BIN</u>		
CONTRACTOR: <u>M&amp;E/C.M.</u>	ENG/GEO: <u>N. THURBER</u>	BEGUN: <u>0930</u>	
EQUIPMENT: <u>BACKHOE</u>	OPERATOR: <u>C.M. (FRANK)</u>	FINISHED: <u>0945</u>	
PIT/TRENCH DIMENSIONS: <u>6x4x6</u>	WEATHER: <u>CLEAR, 70°F</u>	GROUNDWATER (DEPTH): <u>6 ft</u>	
SAMPLING METHOD: <u>NONE</u>	DECON. USED: <u>DRY BRUSH, SOAP + WATER SPRAY</u>	TOP OF ROCK (DEPTH): <u>NONE SEEN</u>	

TEST PIT EXCAVATION PROFILE:

SCALE: 1 sq = 1 1/2 ft

BRUSH AT TOP

1 ft	MEDIUM GRADED SAND W/ ROOTS	
2 ft	DENSE SOIL W/ COAL FRAGMENTS	
3 ft	SANDY GRAVEL W/ SOME MIXED	
4 ft	REDISH/BROWN SAND	
5 ft	TO BOTTOM @ 6.5 ft	
6 ft		Groundwater @ 6 ft
		(NO SCREEN ON GROUNDWATER)

LOCATION OF TEST PITS:

LOCATION OF SUSPECTED COAL BIN NEAR

SAMPLE COORDINATES:

RADIO TOWER

(ABOUT 75' FROM LOT 1 + 2 CORNERS)

\* NO HEADSPACE READINGS ABOVE BACKGROUND  
NO ODOR, SLIGHT COAL ODOR IN LAYER W/ COAL FRAGMENTS



PROJECT: <b>STANDARD TIMES</b>		SHEET: <b>1 OF 1</b>	TEST PIT NO.: <b>TP-02</b>
SITE LOCATION: <b>NEW BEDFORD, MA</b>	JOB NO.: <b>020655-0002</b>	GROUND ELEV.: <b>—</b>	TOTAL DEPTH: <b>6.5 ft</b>
	GRID LOCATION: <b>COAL B.N</b>		
CONTRACTOR: <b>MTE/CITY</b>	ENG/ GEO: <b>N. THURSEN</b>	BEGUN: <b>0950</b>	
EQUIPMENT: <b>BALLICE</b>	OPERATOR: <b>CITY (FRANK)</b>	FINISHED: <b>1015</b>	
PIT/TRENCH DIMENSIONS: <b>6 x 4 x 6 1/2</b>	WEATHER: <b>CLEAR, 70°F</b>	GROUNDWATER (DEPTH): <b>6 1/2'</b>	
SAMPLING METHOD: <b>NONE</b>	DECON. USED: <b>DRY BRUSH, SOAP WATER SPRAY</b>	TOP OF ROCK (DEPTH): <b>NONE</b>	

TEST PIT EXCAVATION PROFILE:

SCALE:

**BLAST AT TOP**

1ft	MEDIUM GRADED SAND W/ ROOTS	
2ft	DENSE SOIL W/ COAL FRAGMENTS	
3ft	SANDY GRAVEL W/ MIXED RD	
4ft	RED/BROWN SAND	
5ft	↓	
6ft		↓
		<b>GROUNDWATER @ 6ft</b>

LOCATION OF TEST PITS:

~~106 ft FROM~~

SAMPLE COORDINATES:

20ft FROM LOT 1+2 CORNER S

\* NO STEEN ON GROUNDWATER

NO ODOR (OTHER THAN MILD COAL-TYPE ODOR)



PROJECT: <b>STANDARD TIMES</b>	9/27/99	SHEET: <b>1 OF 1</b>	TEST PIT NO.: <b>TP-04</b>
SITE LOCATION: <b>NEW BORDEN</b>	JOB NO.: <b>020655-022</b>	GROUND ELEV.: <b>—</b>	TOTAL DEPTH: <b>5ft</b>
	GRID LOCATION: <b>LOT 3</b>		
CONTRACTOR: <b>MTE/CITY</b>	ENG/GEO: <b>N. THURBER</b>	BEGUN: <b>11:00</b>	
EQUIPMENT: <b>BACKHOE</b>	OPERATOR: <b>CITY (FRANK)</b>	FINISHED: <b>11:15</b>	
PIT/TRENCH DIMENSIONS: <b>4x6x4x5 ft depth</b>	WEATHER: <b>CLEAR, 70° F</b>	GROUNDWATER (DEPTH): <b>4ft</b>	
SAMPLING METHOD: <b>NONE</b>	DECON. USED: <b>DRY BRUSH, SOAP + WATER SPRAY</b>	TOP OF ROCK (DEPTH): <b>—</b>	

TEST PIT EXCAVATION PROFILE:

SCALE: 1 Square = 1' x 1'

NO VEGETATION AT SURFACE

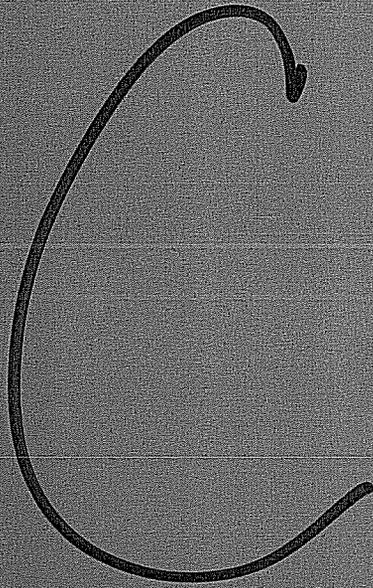
1ft	SANDY LOAM W/ SOME DEBRIS,		
2ft	MOSTLY BRICK		
3ft	DEFINED LAYER OF BRICK BETWEEN		
4ft	2 & 3 FEET		
5ft	SANDY MATERIAL W/ DEBRIS (SIMILAR)	← GROUNDWATER @ 4ft	* A SULFUR-LIKE ODOR WAS DETECTED AT 4ft

LOCATION OF TEST PITS:

NEAR EASTERN BOUNDARY WITHIN

SAMPLE COORDINATES:

AREA OF STRESSED VEGETATION —  
10 ft FROM TP-03



**APPENDIX C. WELL INSTALLATION LOGS**









# TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

**METCALF & EDDY, INC.**  
 30 Harvard Mill Square  
 Wakefield, MA 01880  
 (617) 246-5200

**SITE LOCATION**  
 Standard Times Field  
 New Bedford, MA

**BORING/WELL ID**  
 CW-02RG

DRILL CONTRACTOR: CosTEK  
 DRILLER: V. Bell  
 ENG/GEO: B. WYSKOWSKI  
 START DATE: 11/1/99  
 FINISH DATE: 11/1/99  
 DUPMT  
 SAMPLING METHOD: NONE

DRILLING METHOD: Direct Push  
 DRILL RIG: Earth Probe 2000  
 SAMPLING METHOD: NA  
 PIPE MATERIAL: 5ch 40 PVC  
 PIPE SIZE: 1" OD  
 SCREEN LENGTH: 8ft  
 DRILLING FLUID: NA  
 RISER: Flush mounted

**PAGE**  
 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft			///		Ø		SUDAN IV-neg	
	NA	NA	///	NA				
5 ft			///			▽ 5.2ft		
			///					
10 ft			Bottom 8ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								

Notes: No visible staining of soils on rod

# TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

**METCALF & EDDY, INC.**  
 30 Harvard Mill Square  
 Wakefield, MA 01880  
 (617) 246-5200

**SITE LOCATION**  
 Standard Times Field  
 New Bedford, MA 01930

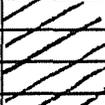
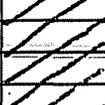
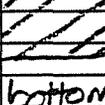
**BORING/WELL ID**  
 CW-042E

DRILL CONTRACTOR: CoorTek  
 DRILLER: J. Bell  
 ENG/GEO: B. Wiskowski  
 START DATE: 11/1/99  
 FINISH DATE: 11/1/99  
 DVPMT  
 SAMPLING METHOD: none

DRILLING METHOD: DWAT Push  
 DRILL RIG: Earth Probe 2000  
 SAMPLING METHOD: NA  
 PIPE MATERIAL: 1/2" 40 PVC  
 PIPE SIZE: 1" OD  
 SCREEN LENGTH: 8.5 ft  
 DRILLING FLUID: NA

**PAGE**  
 1 of 1

Riser: Flush Mounted

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft								
	<u>NA</u>	<u>NA</u>		<u>NA</u>		<u>φ</u>	<u>SUDAN IV Neg</u>	
5 ft								
						<u>5.9 ft</u>		
10 ft			<u>bottom</u> <u>8.5 ft</u>					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								
							<u>NO visible staining of soils or rock</u>	

D

**APPENDIX D. WELL SAMPLING DATA SHEETS**

1

**APPENDIX E. DATA VALIDATION MEMORANDA**

**TABLE D-1. FIELD PARAMETERS - STANDARD TIMES FIELD - FALL 1999**

LOCATION ID	SAMPLING DATE	FLOW RATE		pH		ORP		TEMPERATURE		SPECIFIC CONDUCTIVITY		DISSOLVED OXYGEN		TURBIDITY	
		INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
		(ml/min)	(ml/min)			(mV)	(mV)	(°C)	(°C)	(µmhos/cm)	(µmhos/cm)	(mg/l)	(mg/l)	(NTU)	(NTU)
GW-01	30-Sep-99	400	400	6.52	6.55	-101	-243	18.01	18.29	18931	16129	1.60	0.62	167	2.68
GW-02	30-Sep-99	230	240	6.72	6.70	-72.7	-69.7	17.54	17.22	854	839	0.90	0.71	168	158
GW-02RE	02-Nov-99	80	NM	6.73	6.83	-487	-225	16.62	15.07	533	541	4.02	4.16	170	175
GW-03	30-Sep-99	NM	NM	8.14	NM	-69.9	NM	18.05	NM	479	NM	3.95	NM	898	NM
GW-04	30-Sep-99	220	NM	7.25	6.09	-77.4	-51.5	15.90	15.69	463	431	1.08	0.42	1355	NM
GW-04RE	02-Nov-99	<50	<50	6.97	7.20	86.5	67.1	17.80	16.80	640	614	7.02	8.00	30	16

**NOTES:**

ORP - Oxidation-Reduction Potential

NTU - Nephelometric Turbidity Unit

**MONITORING WELL SAMPLING WORKSHEET**

Job Name: Brownfields Std Times Job No.: 020655 0002 Samplers: M Gallagher

Well ID: GW01 Date Sampled: 9/30/99 Arrival Time: 1130 Depart. Time: 1330

Well secure upon arrival?  Yes  No  
 PID Readings ppm: 0.0 0.0  
 Breathing Zone Well headspace

Well Diameter \_\_\_\_\_ inches - 12 = \_\_\_\_\_ ft dia.  
 Depth of well from T.O.D. \_\_\_\_\_ ft  
 Depth of water from T.O.D. 3.15 ft  
 Feet of standing water \_\_\_\_\_ ft  
 Volume of standing water \_\_\_\_\_ gal

Purging Method peristaltic Purge Time Start 1150 End 1230

	Time	Water Level (feet)	pH	Elect. (mV)	Sal. Cond. (µmhos/cm)	Temp (°C)	DO (mg/L)	Turbidity (NTU)	Flow Rate (gpm)
Initial Reading	<u>1155</u>	<u>3.15</u>	<u>6.52</u>	<u>-100.7</u>	<u>18931</u>	<u>18.01</u>	<u>1.60</u>	<u>167</u>	<u>400</u>
Final Reading	<u>1325</u>	<u>3.15</u>	<u>6.55</u>	<u>-243</u>	<u>16129</u>	<u>18.29</u>	<u>0.62</u>	<u>2.68</u>	<u>400</u>

Sample Collection: Time Start: 1230 End: 1320 Samples Preserved:  Yes  No

*Sample Characteristics (circle all applicable)*

Describe odor: none sulfide fishy musty petroleum  
 Describe color: colorless black brown orange red  
 Describe appearance: turbid silty sand clay floaters sheen  
 clear multiphase foaming silty algae

Organic Layer? None Length? — Floating or Sinking or Other? —

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**MONITORING WELL SAMPLING WORKSHEET**

Job Name: Brunfld Std Times Job No.: 020155-0002 Samplers: DSTM

Well ID: CW08-05 Date Sampled: 9/30/99 Arrival Time: 1340 Depart. Time: 1630

Well secure upon arrival?  Yes  No  
 PID Readings ppm: 0.0 0.0  
 Breathing Zone Well headspace

Well Diameter: \_\_\_\_\_ inches - 12 = \_\_\_\_\_ ft dia.  
 Depth of well from T.O.D. \_\_\_\_\_ ft  
 Depth of water from T.O.D. 5.85 ft  
 Feet of standing water \_\_\_\_\_ ft  
 Volume of standing water \_\_\_\_\_ gal

Purging Method \_\_\_\_\_ Purge Time Start \_\_\_\_\_ End \_\_\_\_\_

	Time	Water Level feet	pH	Temp °F	Sp. Cond. µS/cm	Temp °C	DO mg/L	Turbidity NTU	Flow Rate gpm
Initial Reading	<u>1420</u>	<u>6.55</u>	<u>6.72</u>	<u>-72.7</u>	<u>854</u>	<u>17.54</u>	<u>0.90</u>	<u>168.3</u>	<u>230</u>
Final Reading	<u>1604</u>	<u>6.70</u>	<u>6.70</u>	<u>-69.7</u>	<u>839</u>	<u>17.22</u>	<u>0.71</u>	<u>158.3</u>	<u>240</u>

Sample Collection: Time Start: 1500 End: 1600 Samples Preserved:  Yes  No

*Sample Characteristics (circle all applicable):*

Describe odor: none sulfide fishy musty petroleum  
 Describe color: colorless black brown orange red  
 Describe appearance: turbid silty sand clay floaters sheen  
 clear multiphase foaming slimy algae

Organic Layer? none Length? / Floating or Sinking or Other? /

Comments test papers neg



Site Name: BTSA Sites  
 Site Location: STF

Title: Draft Generic BTSA SAP  
 Revision No.: 0  
 Submitted Date: June 1999

MONITORING WELL SAMPLING WORKSHEET

Job Name: B/E - STF Job No.: 020055-002 Samplers: NT/CL

Well ID: WP-03RE<sup>DS</sup> Date Sampled: 11/2/99 Arrival Time: 0830 Depart. Time: 1330  
~~WP-03RE~~ GW-02RE

Well secure upon arrival? Yes / No PID Readings (ppm) 0 Breathing Zone 0 Well Headspace

Well Diameter: \_\_\_\_\_ inches + 12 = \_\_\_\_\_ ft (dia)  
 Depth of well from T.O.C. \_\_\_\_\_ ft Depth of well from T.O.PVC. \_\_\_\_\_ ft  
 Depth of water from T.O.C. \_\_\_\_\_ ft Depth of water from T.O.PVC 4.83' ft  
 Feet of standing water \_\_\_\_\_ ft Feet of standing water \_\_\_\_\_ ft  
 Volume of standing water \_\_\_\_\_ gal Volume of standing water \_\_\_\_\_ gal

Purging Method Peristaltic Purge: Time Start \* End \*

	Time	Water Level (feet)	pH	ORP (mV)	Sp. Cond. (us/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
Initial Reading	<u>11.01</u>	<u>4.77</u>	<u>6.73</u>	<u>-487</u>	<u>533</u>	<u>16.62</u>	<u>4.02</u>	<u>170</u>	<u>80 ml/min</u>
Final Reading	<u>1457</u>	<u>230</u>	<u>6.83</u>	<u>-225</u>	<u>541</u>	<u>15.07</u>	<u>4.16</u>	<u>175</u>	<u>—</u>

Sample Collection: Time Start: 1110 End: 1455 Samples Preserved: Yes / No

Sample Characteristics (circle all applicable)

Describe odor: none sulfide fishy musty petroleum  
 Describe color: colorless black brown orange red  
 Describe appearance: turbid silty sand clay floaters sheen  
 clear multiphase foaming slimy algae

Organic Layer? \_\_\_\_\_ Length? \_\_\_\_\_ Floating or Sinking or Other? \_\_\_\_\_

Comments: Sample IDs WP-03RE GW-02RE Development: \* DRAWDOWN COULD NOT BE MAINTAINED AT 80 ml/min. ALLOWED WELL TO RE-CHANGE AFTER 45 MINUTES OF DEVELOPMENT 1 HOUR FOR RECHARGE  
Field Dup for VPH, EPH, only P/P  
GWIS-02RE @ 1910

Refer to page \_\_\_\_\_ of the corresponding field log book.

FIGURE C-2. MONITORING WELL SAMPLING WORKSHEET

Filled VPH, VPH FD  
 1/2 l EPH - allowed to recharge  
 withdrew 1/2 l, allowed to recharge, etc, etc  
 C-12 / 15min  
 200-

**MONITORING WELL SAMPLING WORKSHEET**

Job Name: Brownfields Std Times Job No.: 020655-0002 Samplers: M Gallachan

Well ID: GW03 Date Sampled: 9/30/99 Arrival Time: 1030 Depart. Time: 1230

Well secure upon arrival:  Yes  No  
 PID Readings ppm: 0.0 Breathing Zone 0.0 Well headspace

Well Diameter \_\_\_\_\_ inches - ID = \_\_\_\_\_ ft dia.  
 Depth of well from T.O.D. \_\_\_\_\_ ft  
 Depth of water from T.O.D. 7.31 ft  
 Feet of standing water \_\_\_\_\_ ft  
 Volume of standing water \_\_\_\_\_ gal

Purging Method: peristaltic Purge Time Start: 1055 End: 1105

	Time	Water Level (feet)	pH	EH (mV)	Sal. Cond. (us/cm)	Temp (°C)	DO (ppm)	Turbidity (NTU)	Flow Rate (lpm)
Initial Reading	<u>11:00</u>	<u>7.31</u>	<u>8.14</u>	<u>-69.9</u>	<u>479</u>	<u>18.05</u>	<u>3.95</u>	<u>898</u>	<u>NM</u>
Final Reading	_____	_____	_____	_____	_____	_____	_____	_____	_____

Sample Collection: Time Start: 1105 End: 1145 Samples Preserved:  Yes  No

*Sample Characteristics (circle all applicable):*

Describe odor:	none	sulfide	fishy	musty	petroleum	_____
Describe color:	colorless	black	brown	orange	red	_____
Describe appearance:	turbid	silty	sand	clay	floaters	sheen
	clear	multiphase	foaming	slimy	algae	_____

Organic Layer? NONE Length? \_\_\_\_\_ Floating or Sinking or Other? \_\_\_\_\_

Comments: NO recharge sampled immediately  
NO 2nd page

**MONITORING WELL SAMPLING WORKSHEET**

Job Name: Brunfld Std Times Job No.: 020655-0002 Samplers: DH

Well ID: GWO2-05 Date Sampled: 9/30/99 Arrival Time: 1030 Depart. Time: 1320

Well ID: 6W04  
 Well secure upon arrival?  Yes  No  
 PID Readings ppm: 0.0 Breathing Zone  
0.0 Well headspace

Well Diameter: \_\_\_\_\_ inches - 12 = \_\_\_\_\_ ft dia.  
 Depth of well from T.O.D. \_\_\_\_\_ ft  
 Depth of water from T.O.D. 6.15 ft  
 Feet of standing water \_\_\_\_\_ ft  
 Volume of standing water \_\_\_\_\_ gal

Purging Method peristaltic Purge Time Start 1100 End 1150

	Time	Water Level feet	pH	EH mV	Sal. Cond. µS/cm	Temp °C	DO mg/L	Turbidity NTU	Flow Rate gpm
Initial Reading	<u>1100</u>	<u>6.15</u>	<u>7.25</u>	<u>-77.4</u>	<u>463</u>	<u>15.90</u>	<u>1.08</u>	<u>1355</u>	<u>220</u>
Final Reading	<u>1305</u>	<u>6.41</u>	<u>6.09</u>	<u>-51.5</u>	<u>431</u>	<u>15.69</u>	<u>0.42</u>	<u>NM</u>	<u>NM</u>

Sample Collection: Time Start 1200 End 1300 Samples Preserved:  Yes  No

*Sample Characteristics (circle all applicable)*

Describe odor:  none sulfide fishy musty petroleum  
 Describe color: colorless black  brown orange red  
 Describe appearance:  turbid silty sand clay floaters sheen  
 clear multiphase foaming silty algae

Organic Layer? None Length? ✓ Floating or Sinking or Other? ✓

Comments test papers neg





**MONITORING WELL SAMPLING WORKSHEET**

Proj. Name: B/R - STF Job No.: 020655-0002 Samplers: NT

Well ID: GW-04 RE Date Sampled: 11/2/99 Arrival Time: 11:30 Depart. Time: 16:15

Well secure upon arrival?  Yes / No  No PID Readings (ppm) Ø Breathing Zone Ø Well Headspace SLIGHT SILENT FUEL ODR IN PUMP DISCHARGE BUCKET

Well Diameter: 1 inches ÷ 12 = \_\_\_\_\_ ft (dia)  
 Depth of well from T.O.C. 7.8 ft (as in Rem Depth) Depth of well from T.O.PVC. 7.8 ft  
 Depth of water from T.O.C. 5.13 ft Depth of water from T.O.PVC 5.13 ft  
 Feet of standing water \_\_\_\_\_ ft Feet of standing water \_\_\_\_\_ ft  
 Volume of standing water \_\_\_\_\_ gal Volume of standing water \_\_\_\_\_ gal

Purging Method LOW FLOW Purge: Time Start 11:40 End 12:45 (INTERMITTENT - NEVER REACHED EQUAL FLOW)

	Time	Water Level (feet)	pH	ORP (mV)	Sp. Cond. (µmhos/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
Initial Reading	<u>12:45</u>	<u>7'</u>	<u>6.97</u>	<u>86.5</u>	<u>640</u>	<u>17.8</u>	<u>7.82</u>	<u>30</u>	<u>&lt;50</u>
Final Reading	<u>15:00</u>	<u>6.8'</u>	<u>7.2</u>	<u>67.1</u>	<u>614</u>	<u>16.8</u>	<u>8.0</u>	<u>16.0</u>	<u>&lt;50</u>

Sample Collection: Time Start: 13:00 End: 15:30 Samples Preserved:  Yes / No  No

*Sample Characteristics (circle all applicable)*

Describe odor: none sulfide fishy musty petroleum SLIGHT  
 Describe color: colorless black brown orange red - MOSTLY CLEAR AFTER INITIAL PURGE  
 Describe appearance: turbid silty sand clay floaters sheen SLIGHT FILM  
 clear multiphase foaming slimy algae

Organic Layer? \_\_\_\_\_ Length? \_\_\_\_\_ Floating or Sinking or Other? \_\_\_\_\_

Comments Sample ID GW-04 RE ✓ DRAWDOWN COULD NOT BE MAINTAINED AT 80 ml/min, WELL ALLOWED TO RECHARGE BETWEEN SAMPLES



**Blank Analysis Results**

A review of laboratory blank analysis results indicate the presence of laboratory contamination for the compounds listed below. Positive sample results reported with concentrations less than five times the highest blank concentration for that compound are considered to be false positive results. However, the VPH range C<sub>9</sub>-C<sub>12</sub> aliphatics was not detected in any of the samples in this SDG, therefore, no qualifications were applied to the data.

Compound	Blank Action Limit (µg/kg)	Action
C <sub>9</sub> -C <sub>12</sub> aliphatics	26,500	none, this VPH range was not detected in the samples

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name Woods Hole Group SOW/Method No. VMADEP VPH/EPH  
Case/Project No. ETR # 43026 Sampling Date(s) 9/28/99  
SDG No. Lab ID # 43026-1 Shipping Date(s) 9/29/99  
No. of Samples/Matrix 12 soil & 1 TB Date Rec'd by lab ✓

Traffic Report Sample Nos. SS0301STF, SS0301STFDUP, SS0401STF, SS0402STF, SS0501STF, SS0502STF, SS0601STF, SS0701STF, SS0801STF, SS0901STF, SSK0901STF, SS1001STF, SS0201STF  
Trip Blank No. SSTB0101 (VPH only)  
Equipment Blank No. none  
Bottle Blank No. none  
Field Duplicate Nos. SS0901STF, SSK0901STF  
PES Nos. none

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 8/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

modified Tier I / Tier II

The data were evaluated based upon the following parameters:

- |   |  |  |                               |
|---|--|--|-------------------------------|
| <i>OK</i> - Overall Evaluation of Data                  | <i>OK</i> - Field Duplicates                       | <i>OK</i> - Fmt. Check down                        | - Cooler T = 4°C              |
| <i>OK</i> - Data Completeness (CSF Audit - Tier I)      | <i>OK</i> - Sensitivity Check (LCS)                | <i>OK</i> - Field Duplicates                       | - samples covered in methanol |
| <i>OK</i> - Preservation & Technical Holding Times      | <i>NR</i> - PE Samples/Accuracy Check              | <i>OK</i> - Sensitivity Check (LCS)                |                               |
| <i>NA</i> - GC/MS & GC/ECD Instrument Performance Check | <i>NE</i> - Target Compound Identification         | <i>NR</i> - PE Samples/Accuracy Check              |                               |
| <i>NS</i> - Initial & Continuing Calibrations           | <i>NE</i> - Compound Quantitation and Reported     | <i>NE</i> - Target Compound Identification         |                               |
| <i>*</i> - Blanks                                       | <i>NE</i> - Quantitation Limits                    | <i>NE</i> - Compound Quantitation and Reported     |                               |
| <i>OK</i> - Surrogate Compounds                         | <i>NA</i> - TICs                                   | <i>NE</i> - Quantitation Limits                    |                               |
| <i>NA</i> - Internal Standards                          | <i>NA</i> - Semivolatile and Pesticide/PCB Cleanup | <i>NA</i> - TICs                                   |                               |
| <i>OK</i> - Matrix Spike/Matrix Spike Duplicate         | <i>NE</i> - System Performance                     | <i>NA</i> - Semivolatile and Pesticide/PCB Cleanup |                               |

Region I Definitions and Qualifiers:

- A - Acceptable Data *NS - not supplied*
- J - Numerical value associated with compound is an estimated quantity. *not requested as a well variable*
- R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit. *NA - not applicable for method and/or modified Tier I/II*
- U - Compound not detected at that numerical sample quantitation limit. *NE - not evaluated*
- UJ - The sample quantitation limit is an estimated quantity.
- TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples. *\* QC issues see attached worksheet page(s)*

Validator's Name Lisa Kelly Kromt Company Name Metray, Eddy Phone Number 781-246-5200

Date Validation Started 12/10/99 Date Validation Completed 10/14/99

**V. BLANK ANALYSIS**

List the blank contamination below.

Concentration Level: low

Sampler: D. St. Orge Company: Metscraft Eddy

Contacted: Yes  No  Date: \_\_\_\_\_

**1. Laboratory: Method, Storage and Instrument Blanks**

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
-	10/8/99	VPH/air	Method Blank	-	C <sub>9</sub> -C <sub>12</sub> Aliphatics	5300 ug/kg
	10/12/99	no VPH detected			Undistorted C <sub>9</sub> -C <sub>12</sub> aliph.	5300 ug/kg

**2. Field: Equipment (Rinsate), Trip and Bottle Blanks**

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
		no VPH detected in TB				

Validator: Quark Kugakawa

Date: 12/11/99



Attachment I

---

Chains-of-Custody

43026



CHAIN OF CUSTODY FORM

Job/Project Name: Standard Times Job/Project Location: New Bedford, MA Job/Project Number: 028055-0007

Samplers: (Signatures) PH McEl Recorder: (Signature) [Signature] Date: 9/29/99

Lab (Samples Sent To): Woodshole MATRIX ANALYSIS REQUESTED

43026 = 1  
 - 1  
 - 2  
 - 3  
 - 4  
 - 5  
 - 6  
 - 7  
 - 8  
 - 9  
 - 10  
 - 11  
 - 12

Date	Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX			COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED		Total # Bc. Hles	COMMENTS
				Water	Soil	Product			VPH	EPH		
9/28/99	15:20	SS0301 STF		X			G	Y	X	X	2	
9/28/99	14:50	SS0401 STF		X			G	Y	X	X	2	
	1400	SS0402 STF		X			G	Y	X	X	2	
	<del>13:40</del>	SS0501 STF		X			G	Y	X	X	2	
	12:55	SS0502 STF		X			G	Y	X	X	2	
	13:40	SS0502 STF		X			G	Y	X	X	2	
	12:45	SS0601 STF		X			G	Y	X	X	2	
	12:20	SS0701 STF		X			G	Y	X	X	2	
	12:00	SS0801 STF		X			G	Y	X	X	2	
	11:30	SS0901 STF		X			G	Y	X	X	2	
	11:35	SSK0901 STF		X			G	Y	X	X	2	Field Dup of SS0901 STF
	11:00	SS1001 STF		X			G	Y	X	X	2	
	10:15	SS0201 STF		X			G	Y	X	X	2	

Relinquished By: (Signature) Difome Date: 9/29/99 Time: 14:00 Received By: (Signature) [Signature] Date: 9/29/99 Time: 3:10

Relinquished By: (Signature) Date: Time: Relinquished By: (Signature) Relinquished By: (Signature) Date: Time: Received By: (Signature)

Relinquished By: (Signature) Date: Time: Received for Lab By: (Signature) Date: Time: Comments: Pres:

Method of Shipment: Courier VPH: methanol + ice  
EPH: ice  
methanol sample: ice



### CHAIN OF CUSTODY FORM

43026 2 of 2

Job/Project Name: <u>Standard Times</u>		Job/Project Location: <u>New Bedford MA</u>		Job/Project Number: <u>0206550007</u>						
Samplers: (Signatures) <u>Dfmg</u>			Recorder: (Signature) <u>Dfmg</u>		Date: <u>9/29/99</u>					
Lab (Samples Sent To): <u>Woods Hole</u>			MATRIX		ANALYSIS REQUESTED					
SAMPLING	SAMPLE NUMBER	SAMPLE LOCATION	Water	Soil	Methanol	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	VPH	Total #	COMMENTS
	<u>9/28/99</u>	<u>10:00</u>			<u>+</u>	<u>+</u>	<u>+</u>		<u>1</u>	<u>Trip Blank</u>
		<u>Temperature Blank</u>								
Relinquished By: (Signature) <u>Dfmg</u>		Date: <u>9/29/99</u> Time: <u>14:00</u>	Relinquished By: (Signature) <u>E. P. Butler</u>		Date: <u>9/29/99</u> Time: <u>3:10</u>	Received By: (Signature) <u>[Signature]</u>				
Relinquished By: (Signature)		Date: Time:	Relinquished By: (Signature)		Date: Time:	Received By: (Signature)				
Relinquished By: (Signature)		Date: Time:	Received for Lab By: (Signature)		Date: Time:	Comments: <u>preserve: tel ds 9/29/99</u> <u>see previous page</u>				
Method of Shipment: <u>COURIER</u>										

1026-B

**Attachment II**  
**Sample Result Summary Sheets**



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-13

Associated Blank: VS1007B2

<b>Sample ID: SSTB0101</b>		<b>09/28/99 @1000(MeOH)</b>			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	25 g	100%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	18000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	5200	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	10000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	18000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	5200	U

*No estab  
unfor USK  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	260	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	260	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	780	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	260	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	520	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	520	U
Naphthalene	N/A	520	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	116%	70%-130%	120%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-12

Associated Blank: VS1007B2

Sample ID: SS0201STF		09/28/99 @1015(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.98 g	91%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	21000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	5900	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	21000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	5900	U

*No calcs  
confirm LK/K  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	300	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	300	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	890	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	300	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	590	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	590	U
Naphthalene	N/A	590	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	105%	70%-130%	108%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



# Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite B  
Raynham, MA 02767-5154 • USA  
Phone: 508-822-9300  
Fax: 508-822-3288

## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43026

Project: Standard Times

Lab ID Number: 43026-1

Associated Blank: VS1012B1

Sample ID: SS0301STF		09/28/99 @1520(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	22.48 g	84%	10/12/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	24000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6900	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	14000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	24000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6900	U

No edits  
can for UKS  
12/17/99

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	350	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	350	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	1000	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	350	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	690	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	690	U
Naphthalene	N/A	690	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	77%	70%-130%	88%	70%-130%

- <sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
- <sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
- <sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-2

Associated Blank: VS1007B2

Sample ID: SS0401STF		09/28/99 @1450(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.7 g	91%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	21000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6000	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	21000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6000	U

*No edits  
com for LSK  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	300	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	300	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	900	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	300	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	600	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	600	U
Naphthalene	N/A	600	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	108%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-3

Associated Blank: VS1007B2

Sample ID: SS0402STF		09/28/99 @1400(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	22.72 g	85%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	24000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6700	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	13000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	24000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6700	U

No elution  
confirm LKTS  
12/17/99

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	340	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	340	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	1000	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	340	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	670	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	670	U
Naphthalene	N/A	670	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	104%	70%-130%	108%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43026

Project: Standard Times

Lab ID Number: 43026-4

Associated Blank: VS1007B2

Sample ID: SS0501STF		09/28/99 @1255(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/99	23.71 g	87%	10/8/99	1	AL

*No collect  
cm for LKB  
12/17/99*

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	22000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6300	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	13000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	22000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6300	U

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	310	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	310	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	940	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	310	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	630	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	630	U
Naphthalene	N/A	630	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	103%	70%-130%	106%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



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## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-5

Associated Blank: VS1007B2

Sample ID: SS0502STF		09/28/99 @1340(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.08 g	82%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	24000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6800	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	14000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	24000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6800	U

*No. adjust  
con for VPH  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	340	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	340	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	1000	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	340	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	680	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	680	U
Naphthalene	N/A	680	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	101%	70%-130%	106%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-6

Associated Blank: VS1007B2

Sample ID: SS0601STF		09/28/99 @1245(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.19 g	91%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	21000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	21000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6100	U

*No edits  
CM for LKIS  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	310	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	310	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	920	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	310	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	610	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	610	U
Naphthalene	N/A	610	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	109%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-7

Associated Blank: VS1007B2

Sample ID: SS0701STF		09/28/99 @1220(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	24.74 g	89%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	21000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	5900	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	21000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	5900	U

*No counts  
OK for LKTS  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	300	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	300	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	890	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	300	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	590	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	590	U
Naphthalene	N/A	590	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	103%	70%-130%	106%	70%-130%

- <sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
- <sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
- <sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-8

Associated Blank: VS1007B2

<b>Sample ID: SS0801STF</b>		<b>09/28/99 @1200(Soil)</b>			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.6 g	97%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	20000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	5700	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	11000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	20000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	5700	U

*No edits  
CRM for LK  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	280	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	280	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	850	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	280	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	570	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	570	U
Naphthalene	N/A	570	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	111%	70%-130%	115%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-9

Project: Standard Times

Associated Blank: VS1007B2

<b>Sample ID: SS0901STF</b>		<b>09/28/99 @1130(Soil)</b>			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	24.51 g	91%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	20000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	5900	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	20000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	5900	U

*No solids  
OK for UK 15  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	290	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	290	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	880	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	290	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	590	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	590	U
Naphthalene	N/A	590	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	110%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-10

Associated Blank: VS1007B2

Sample ID: SSK0901STF			09/28/99 @1135(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	24.35 g	89%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	21000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	6000	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	21000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	6000	U

*No edits  
CPC for CLK  
12/7/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	300	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	300	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	900	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	300	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	600	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	600	U
Naphthalene	N/A	600	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	109%	70%-130%	114%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



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## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

Project: Standard Times

ETR Number: 43026

Lab ID Number: 43026-11

Associated Blank: VS1007B2

Sample ID: SS1001STF		09/28/99 @1100(Soil)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.42 g	96%	10/8/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	20000	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	5800	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	12000	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	20000	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	5800	U

*No extracts  
CR for LFK  
12/17/99*

### TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	290	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	290	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	860	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	290	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	580	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	580	U
Naphthalene	N/A	580	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	116%	70%-130%	118%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy  
Standard Times

ETR Number: 43026  
Lab ID Number: 43026-1  
Associated Blank: ES1004B1

<b>Sample ID:</b> SS0301STF		: [ 09/28/99 @1520(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.36 g	84%	10/4/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3500	U
C19-C36 Aliphatics <sup>1</sup>	4600	U
C11-C22 Aromatics <sup>1,2</sup>	23000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	32000	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	580	U
2-Methylnaphthalene	580	U
Acenaphthylene	580	U
Acenaphthene	580	U
Fluorene	580	U
Phenanthrene	1500	
Anthracene	580	U
Fluoranthene	1600	
Pyrene	1500	
Benzo(a)anthracene	780	
Chrysene	850	
Benzo(b)fluoranthene	580	
Benzo(k)fluoranthene	770	
Benzo(a)pyrene	770	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	820	
Dibenzo(a,h)anthracene <sup>3</sup>	820	
Benzo(g,h,i)perylene	580	U

*No edits  
can find K  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	65	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	80	40% - 140%
	2-Fluorobiphenyl	77	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026

Lab ID Number: 43026-2

Associated Blank: ES1004B1

Sample ID: SS0401STF		:[ 09/28/99 @1450(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.49 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM-HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3200	
C19-C36 Aliphatics <sup>1</sup>	50000	
C11-C22 Aromatics <sup>1,2</sup>	180000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	270000	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	520	U
2-Methylnaphthalene	520	U
Acenaphthylene	520	U
Acenaphthene	520	U
Fluorene	570	
Phenanthrene	7800	
Anthracene	2100	
Fluoranthene	16000	
Pyrene	17000	
Benzo(a)anthracene	8600	
Chrysene	7400	
Benzo(b)fluoranthene	7700	
Benzo(k)fluoranthene	4600	
Benzo(a)pyrene	8200	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	7500	
Dibenzo(a,h)anthracene <sup>3</sup>	7500	
Benzo(g,h,i)perylene	5300	

*No solids  
cm for GSK  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	62	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	76	40% - 140%
	2-Fluorobiphenyl	73	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026  
Lab ID Number: 43026-3  
Associated Blank: ES1004B1

<b>Sample ID:</b> SS0402STF		<b>: [ 09/28/99 @1400(Soil)</b>						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.31 g	85%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg		
Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3400	U
C19-C36 Aliphatics <sup>1</sup>	19000	
C11-C22 Aromatics <sup>1,2</sup>	120000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	200000	

TARGETED PAH ANALYTES in µg/Kg		
Analyte	Amount	Qualifier
Naphthalene	570	U
2-Methylnaphthalene	570	U
Acenaphthylene	570	U
Acenaphthene	570	U
Fluorene	570	U
Phenanthrene	6800	
Anthracene	1600	
Fluoranthene	13000	
Pyrene	13000	
Benzo(a)anthracene	6000	
Chrysene	5200	
Benzo(b)fluoranthene	5700	
Benzo(k)fluoranthene	5300	
Benzo(a)pyrene	5800	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	7000	
Dibenzo(a,h)anthracene <sup>3</sup>	7000	
Benzo(g,h,i)perylene	5000	

*No solids  
CWA for LSK  
12/17/99*

SURROGATE RECOVERIES			
Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	64	40% - 140%
	Ortho-terphenyl(OTP)	61	40% - 140%
Fractionation Surrogates	Biphenyl	71	40% - 140%
	2-Fluorobiphenyl	68	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.  
 2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.  
 3 Values reported reflect their sum.  
 U = Analyzed but not found.  
 \* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026

Lab ID Number: 43026-4

Associated Blank: ES1004B1

<b>Sample ID:</b> SS0501STF		: [ 09/28/99 @1255(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.32 g	87%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM-HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3300	U
C19-C36 Aliphatics <sup>1</sup>	32000	
C11-C22 Aromatics <sup>1,2</sup>	290000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	440000	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	1300	
2-Methylnaphthalene	720	
Acenaphthylene	1100	
Acenaphthene	2000	
Fluorene	2600	
Phenanthrene	20000	
Anthracene	4000	
Fluoranthene	24000	
Pyrene	28000	
Benzo(a)anthracene	12000	
Chrysene	12000	
Benzo(b)fluoranthene	9300	
Benzo(k)fluoranthene	8700	
Benzo(a)pyrene	11000	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	10000	
Dibenzo(a,h)anthracene <sup>3</sup>	10000	
Benzo(g,h,i)perylene	7400	

*No edits  
can for LFK  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	65	40% - 140%
	Ortho-terphenyl(OTP)	72	40% - 140%
Fractionation Surrogates	Biphenyl	81	40% - 140%
	2-Fluorobiphenyl	74	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026

Lab ID Number: 43026-5

Associated Blank: ES1004B1

<b>Sample ID:</b> SS0502STF		<b>:</b> [ 109/28/99 @1340(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.66 g	82%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3400	U
C19-C36 Aliphatics <sup>1</sup>	19000	
C11-C22 Aromatics <sup>1,2</sup>	75000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	98000	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	570	U
2-Methylnaphthalene	570	U
Acenaphthylene	570	U
Acenaphthene	570	U
Fluorene	570	U
Phenanthrene	1500	
Anthracene	570	U
Fluoranthene	3000	
Pyrene	3900	
Benzo(a)anthracene	2000	
Chrysene	2000	
Benzo(b)fluoranthene	2100	
Benzo(k)fluoranthene	1800	
Benzo(a)pyrene	2200	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	2500	
Dibenzo(a,h)anthracene <sup>3</sup>	2500	
Benzo(g,h,i)perylene	2000	

*No edits  
can for GSK  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	69	40% - 140%
	Ortho-terphenyl(OTP)	62	40% - 140%
Fractionation Surrogates	Biphenyl	65	40% - 140%
	2-Fluorobiphenyl	63	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026

Lab ID Number: 43026-6

Associated Blank: ES1004B1

Sample ID: SS0601STF		:[ 109/28/99 @1245(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.2 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM-HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3200	U
C19-C36 Aliphatics <sup>1</sup>	14000	
C11-C22 Aromatics <sup>1,2</sup>	60000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	80000	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	540	U
2-Methylnaphthalene	540	U
Acenaphthylene	540	U
Acenaphthene	540	U
Fluorene	540	U
Phenanthrene	1900	
Anthracene	540	U
Fluoranthene	3200	
Pyrene	3800	
Benzo(a)anthracene	1800	
Chrysene	1900	
Benzo(b)fluoranthene	1700	
Benzo(k)fluoranthene	1200	
Benzo(a)pyrene	1800	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	1800	
Dibenzo(a,h)anthracene <sup>3</sup>	1800	
Benzo(g,h,i)perylene	1300	

*No edits  
can for CLK  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	69	40% - 140%
	Ortho-terphenyl(OTP)	65	40% - 140%
Fractionation Surrogates	Biphenyl	68	40% - 140%
	2-Fluorobiphenyl	65	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026  
Lab ID Number: 43026-7  
Associated Blank: ES1004B1

Sample ID: SS0701STF : [ 09/28/99 @1220(Soil)								
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.67 g	89%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3200	U
C19-C36 Aliphatics <sup>1</sup>	7500	
C11-C22 Aromatics <sup>1,2</sup>	49000	
Unadjusted C11-C22 Aromatics <sup>1</sup>	76000	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	530	U
2-Methylnaphthalene	530	U
Acenaphthylene	530	U
Acenaphthene	530	U
Fluorene	530	U
Phenanthrene	3400	
Anthracene	820	
Fluoranthene	4900	
Pyrene	4800	
Benzo(a)anthracene	2200	
Chrysene	2100	
Benzo(b)fluoranthene	1900	
Benzo(k)fluoranthene	1600	
Benzo(a)pyrene	2100	
Indeno(1,2,3-cd)pyrene <sup>3</sup>	2100	
Dibenzo(a,h)anthracene <sup>3</sup>	2100	
Benzo(g,h,i)perylene	1400	

*No edits  
can be made  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	68	40% - 140%
	Ortho-terphenyl(OTP)	68	40% - 140%
Fractionation Surrogates	Biphenyl	76	40% - 140%
	2-Fluorobiphenyl	74	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026

Lab ID Number: 43026-8

Associated Blank: ES1004B1

<b>Sample ID:</b> SS0801STF		<b>: [ 109/28/99 @1200(Soil)</b>						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.63 g	97%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	2900	U
C19-C36 Aliphatics <sup>1</sup>	3900	U
C11-C22 Aromatics <sup>1,2</sup>	8900	
Unadjusted C11-C22 Aromatics <sup>1</sup>	8900	

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	480	U
2-Methylnaphthalene	480	U
Acenaphthylene	480	U
Acenaphthene	480	U
Fluorene	480	U
Phenanthrene	480	U
Anthracene	480	U
Fluoranthene	480	U
Pyrene	480	U
Benzo(a)anthracene	480	U
Chrysene	480	U
Benzo(b)fluoranthene	480	U
Benzo(k)fluoranthene	480	U
Benzo(a)pyrene	480	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	480	U
Dibenzo(a,h)anthracene <sup>3</sup>	480	U
Benzo(g,h,i)perylene	480	U

*No edits  
OK for LSK  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	66	40% - 140%
	Ortho-terphenyl(OTP)	63	40% - 140%
Fractionation Surrogates	Biphenyl	74	40% - 140%
	2-Fluorobiphenyl	73	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43026

Standard Times

Lab ID Number: 43026-9

Associated Blank: ES1004B1

Sample ID: SS0901STF		:[ 09/28/99 @1130(Soil)							
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By	
9/29/99	SOIL	10.58 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ	
					Aliphatic:	10/8/99	1	TQ	

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3100	U
C19-C36 Aliphatics <sup>1</sup>	4200	U
C11-C22 Aromatics <sup>1,2</sup>	8900	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	8900	U

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	520	U
2-Methylnaphthalene	520	U
Acenaphthylene	520	U
Acenaphthene	520	U
Fluorene	520	U
Phenanthrene	520	U
Anthracene	520	U
Fluoranthene	520	U
Pyrene	520	U
Benzo(a)anthracene	520	U
Chrysene	520	U
Benzo(b)fluoranthene	520	U
Benzo(k)fluoranthene	520	U
Benzo(a)pyrene	520	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	520	U
Dibenzo(a,h)anthracene <sup>3</sup>	520	U
Benzo(g,h,i)perylene	520	U

*No edits  
can be for L&H  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	68	40% - 140%
	Ortho-terphenyl(OTP)	64	40% - 140%
Fractionation Surrogates	Biphenyl	73	40% - 140%
	2-Fluorobiphenyl	72	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT

### Extractable Petroleum Hydrocarbon (EPH) Analysis

### MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43026

Standard Times

Lab ID Number: 43026-10

Associated Blank: ES1004B1

<b>Sample ID:</b> SSK0901STF		<b>:</b> [ 109/28/99 @1135(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.7 g	89%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

#### EXTRACTABLE PETROLEUM-HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3200	U
C19-C36 Aliphatics <sup>1</sup>	4200	U
C11-C22 Aromatics <sup>1,2</sup>	9000	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	9000	U

#### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	530	U
2-Methylnaphthalene	530	U
Acenaphthylene	530	U
Acenaphthene	530	U
Fluorene	530	U
Phenanthrene	530	U
Anthracene	530	U
Fluoranthene	530	U
Pyrene	530	U
Benzo(a)anthracene	530	U
Chrysene	530	U
Benzo(b)fluoranthene	530	U
Benzo(k)fluoranthene	530	U
Benzo(a)pyrene	530	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	530	U
Dibenzo(a,h)anthracene <sup>3</sup>	530	U
Benzo(g,h,i)perylene	530	U

*No edits  
com for CLK  
12/17/99*

#### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	61	40% - 140%
	Ortho-terphenyl(OTP)	63	40% - 140%
Fractionation Surrogates	Biphenyl	75	40% - 140%
	2-Fluorobiphenyl	74	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026  
Lab ID Number: 43026-11  
Associated Blank: ES1004B1

Sample ID: SS1001STF : [ 09/28/99 @1100(Soil)								
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.67 g	96%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	2900	U
C19-C36 Aliphatics <sup>1</sup>	3900	U
C11-C22 Aromatics <sup>1,2</sup>	8300	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	8300	U

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	490	U
2-Methylnaphthalene	490	U
Acenaphthylene	490	U
Acenaphthene	490	U
Fluorene	490	U
Phenanthrene	490	U
Anthracene	490	U
Fluoranthene	490	U
Pyrene	490	U
Benzo(a)anthracene	490	U
Chrysene	490	U
Benzo(b)fluoranthene	490	U
Benzo(k)fluoranthene	490	U
Benzo(a)pyrene	490	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	490	U
Dibenzo(a,h)anthracene <sup>3</sup>	490	U
Benzo(g,h,i)perylene	490	U

*No edits  
cm for LK  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	71	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	72	40% - 140%
	2-Fluorobiphenyl	71	40% - 140%

<sup>1</sup> Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

<sup>3</sup> Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026

Lab ID Number: 43026-12

Associated Blank: ES1004B1

Sample ID: SS0201STF		:[ 09/28/99 @1015(Soil)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.35 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	3200	U
C19-C36 Aliphatics <sup>1</sup>	4200	U
C11-C22 Aromatics <sup>1,2</sup>	9000	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	9000	U

### TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	530	U
2-Methylnaphthalene	530	U
Acenaphthylene	530	U
Acenaphthene	530	U
Fluorene	530	U
Phenanthrene	530	U
Anthracene	530	U
Fluoranthene	530	U
Pyrene	530	U
Benzo(a)anthracene	530	U
Chrysene	530	U
Benzo(b)fluoranthene	530	U
Benzo(k)fluoranthene	530	U
Benzo(a)pyrene	530	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	530	U
Dibenzo(a,h)anthracene <sup>3</sup>	530	U
Benzo(g,h,i)perylene	530	U

*No edits  
OK for LSK  
12/12/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	72	40% - 140%
	Ortho-terphenyl(OTP)	69	40% - 140%
Fractionation Surrogates	Biphenyl	74	40% - 140%
	2-Fluorobiphenyl	73	40% - 140%

<sup>1</sup> Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

<sup>3</sup> Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



Attachment I

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Chains-of-Custody



# CHAIN OF CUSTODY FORM

43032

Job/Project Name: Brownfield/Steel Times Job/Project Location: New Bedford, MA Job/Project Number: 620655-0004-002  
 Samplers: (Signatures) D. St. Onge Recorder: (Signature) [Signature] Date: 10/1/99

SAMPLING		SAMPLE NUMBER	SAMPLE LOCATION	MATRIX				ANALYSIS REQUESTED				COMMENTS	
Date	Time			Water	Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	1/PA	EPN	Total # Batches			
9/30/99	1200	FGW0201	STF	X		G	Y	X	X		5	HOLD } Wells Resamp! Date not available CDz in hand	
	1500	FGW0801	STF	X		G	Y	X	X		5		HOLD } HOLD }
	1530	FGW0801	STF	X		G	Y	X	X		5		
		1000	GW T B 01		X		G	Y	X			2	Trip Blanks
		1230	GW0401	STF	X		G	Y	X	X		15	MS/MSD
		1100	FGW1001	STF	X		G	Y	X	X		5	
				Temperature Glass									

43032  
-1  
-2  
-2D  
-2M  
-3

Relinquished By: (Signature) <u>[Signature]</u>	Date: <u>10/1/99</u> Time: <u>1400</u>	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: <u>10/1/99</u> Time: <u>2:10</u>	Received By: (Signature) <u>E. C. Butler</u>
Relinquished By: (Signature) <u>[Signature]</u>	Date: <u>10/1/99</u> Time: <u>3:50</u>	Relinquished By: (Signature) <u>[Signature]</u>	Relinquished By: (Signature)	Date:	Received By: (Signature)

Relinquished By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received for Lab By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Comments: HOLD = Do Not Analyze without M&E go-ahead.

**Attachment II**

**Sample Result Summary Sheets**

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## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43032

Project: Brownfield/Standard Times

Lab ID Number: 43032-1

Associated Blank: VW1005B1

Sample ID: GWTB01			09/30/99 @1000(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
10/1/1999	5 mL	N/A	10/5/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	240	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	100	U

*No Edits*  
*CM*  
*for UTS*  
*12/20/99*

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	15	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	118%	70%-130%	125%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43032

Project: Brownfield/Standard Times

Lab ID Number: 43032-2

Associated Blank: VW1005B1

Sample ID: GW0401STF			09/30/99 @1230(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
10/1/1999	5 mL	N/A	10/5/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	120	
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	240	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	120	

*No edits  
can be  
2/17/99*

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	15	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	116%	70%-130%	125%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43032

Project: Brownfield/Standard Times

Lab ID Number: 43032-3

Associated Blank: VW1005B1

Sample ID: FGW1001STF			09/30/99 @1100(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
10/1/1999	5 mL	N/A	10/6/1999	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	420	
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	100	U

*No edit  
can for LFK  
12/17/99*

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	190	
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	119%	70%-130%	123%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.  
<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.  
<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy  
Brownfield/Standard Times

ETR Number: 43032  
Lab ID Number: 43032-2  
Associated Blank: EW1008B1

Sample ID: GW0401STF : [ 10/30/99 @1230(Water)								
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
10/1/99	WATER	980 ml	N/A	10/8/99	Aromatic:	10/14/99	1	TQ
					Aliphatic:	10/14/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	31	U
C19-C36 Aliphatics <sup>1</sup>	41	U
C11-C22 Aromatics <sup>1,2</sup>	220	J
Unadjusted C11-C22 Aromatics <sup>1</sup>	240	J

UKK  
12/17/99

### TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	8.1	J
2-Methylnaphthalene	14	J
Acenaphthylene	5.1	U
Acenaphthene	5.1	U
Fluorene	5.1	U
Phenanthrene	5.1	U
Anthracene	5.1	U
Fluoranthene	5.1	U
Pyrene	5.1	U
Benzo(a)anthracene	5.1	U
Chrysene	5.1	U
Benzo(b)fluoranthene	5.1	U
Benzo(k)fluoranthene	5.1	U
Benzo(a)pyrene	5.1	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	5.1	U
Dibenzo(a,h)anthracene <sup>3</sup>	5.1	U
Benzo(g,h,i)perylene	5.1	U

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	67	40% - 140%
	Ortho-terphenyl(OTP)	70	40% - 140%
Fractionation Surrogates	Biphenyl	96	40% - 140%
	2-Fluorobiphenyl	71	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Brownfield/Standard Times

ETR Number: 43032  
Lab ID Number: 43032-3  
Associated Blank: EW1008B1

Sample ID: FGW1001STF		:[ 109/30/99 @1100(Water)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
10/1/99	WATER	980 ml	N/A	10/08/99	Aromatic:	10/14/99	1	TQ
					Aliphatic:	10/14/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	31	U
C19-C36 Aliphatics <sup>1</sup>	41	U
C11-C22 Aromatics <sup>1,2</sup>	87	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	87	U

*No edits  
con for USK  
12/17/99*

### TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	5.1	U
2-Methylnaphthalene	5.1	U
Acenaphthylene	5.1	U
Acenaphthene	5.1	U
Fluorene	5.1	U
Phenanthrene	5.1	U
Anthracene	5.1	U
Fluoranthene	5.1	U
Pyrene	5.1	U
Benzo(a)anthracene	5.1	U
Chrysene	5.1	U
Benzo(b)fluoranthene	5.1	U
Benzo(k)fluoranthene	5.1	U
Benzo(a)pyrene	5.1	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	5.1	U
Dibenzo(a,h)anthracene <sup>3</sup>	5.1	U
Benzo(g,h,i)perylene	5.1	U

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	70	40% - 140%
	Ortho-terphenyl(OTP)	68	40% - 140%
Fractionation Surrogates	Biphenyl	74	40% - 140%
	2-Fluorobiphenyl	75	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



**Matrix Spike/Matrix Spike Duplicate**

The following matrix spike recoveries in the EPH MS/MSD sample GW0401STF, from ETR No. 43032, did not meet acceptable criteria indicating possible matrix interference.

Analyte	%Recovery	Action
naphthalene	34	Estimate positive result in sample GW0401STF
2-methylnaphthalene	26	Estimate positive result in sample GW0401STF

Since the validation action is to qualify data in the unspiked sample, no qualification of data in this SDG is necessary.

There were no qualifications added to the data as a result of the data review.



**Attachment I**

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**Chains-of-Custody**



# CHAIN OF CUSTODY FORM

43199

Job/Project Name: BTSA: Standard Times Job/Project Location: New Bedford, MA Job/Project Number: 020655-0002

Samplers: (Signatures) [Signature] Recorder: (Signature) [Signature] Date: 11/2/99

Lab (Samples Sent To): Woodshole Labs

SAMPLING		SAMPLE NUMBER	SAMPLE LOCATION	MATRIX				ANALYSIS REQUESTED					COMMENTS
Date	Time			Water	Soil			COMPOSITE/GRAB	PRESERVATIVE(Y/N)	VPH	EPN	Total # of Vials	
11/2/99	1400	TB-991102	X				G	Y	X			2	Trip Blank -1
11/2/99	1110	GW-02RE	X				G	Y	X	X		5	-2
11/2/99	1510 GRZ 1910	GWK-02RE	X				G	Y	X	X		5	Field Duplicate of GW-02RE -3
11/2/99	1300	GW-02RE	X				G	Y	X	X		5	-4
			Cooler Temperature Records								2.5°C GRZ		

Relinquished By: (Signature) [Signature] Date: 11/2/99 Time: 1655 Relinquished By: (Signature) \_\_\_\_\_ Relinquished By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: (Signature) G.R. Zuber

Relinquished By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished By: (Signature) \_\_\_\_\_ Relinquished By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: (Signature) \_\_\_\_\_

Relinquished By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received for Lab By: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Comments: Preservative: VPH: HCl; EPN: " "

Method of Shipment: Driven Batch ms/msd Requested

**Attachment II**

**Sample Result Summary Sheets**

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## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43199

Project: BSTA: Standard Times

Lab ID Number: 43199-1

Associated Blank: VW1105B1

Sample ID: TB-991102		11/02/99 @1400(Water)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	240	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	100	U

*No edits  
Casper LFK  
12/17/99*

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	15	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	123%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43199

Project: BSTA: Standard Times

Lab ID Number: 43199-2

Associated Blank: VW1105B1

Sample ID: GW-02RE      11/02/99 @1110(Water)

Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	240	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	100	U

*No edit  
check for LF K  
12/17/99*

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	15	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	123%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43199

Project: BSTA: Standard Times

Lab ID Number: 43199-3

Associated Blank: VW1105B1

Sample ID: GWK-02RE		11/02/99@1510(Water)			
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

*No eddts  
Ch for GWK  
12/17/99*

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>9</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	240	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	100	U

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	15	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	123%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



# Woods Hole Group

Environmental Laboratories

375 Paramount Drive • Suite B  
Raynham, MA 02767-5154 • USA  
Phone: 508-822-9300  
Fax: 508-822-3288

## VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS MADEP-VPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43199

Project: BSTA: Standard Times

Lab ID Number: 43199-4

Associated Blank: VW1105B1

Sample ID: GW-08RE			11/02/99 @1300(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

*No cells  
C12 for VPH  
12/27/99*

### VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1,2</sup>	240	U
C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1,3</sup>	100	U
C <sub>9</sub> -C <sub>10</sub> Aromatics <sup>1</sup>	70	U
Unadjusted C <sub>5</sub> -C <sub>8</sub> Aliphatics <sup>1</sup>	240	U
Unadjusted C <sub>9</sub> -C <sub>12</sub> Aliphatics <sup>1</sup>	100	U

### TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C <sub>5</sub> - C <sub>8</sub>	5	U
Benzene	C <sub>5</sub> - C <sub>8</sub>	5	U
Toluene	C <sub>5</sub> - C <sub>8</sub>	15	U
Ethylbenzene	C <sub>9</sub> - C <sub>12</sub>	5	U
m & p Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
o-Xylene	C <sub>9</sub> - C <sub>12</sub>	10	U
Naphthalene	N/A	10	U

### SURROGATE RECOVERY

Surrogate	PID		FID	
	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	107%	70%-130%	125%	70%-130%

<sup>1</sup> Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>2</sup> C<sub>5</sub>-C<sub>8</sub> Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

<sup>3</sup> C<sub>9</sub>-C<sub>12</sub> Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C<sub>9</sub>-C<sub>10</sub> Aromatic Hydrocarbons.

U = Analyzed but not detected.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

BSTA: Standard Times

ETR Number: 43199  
Lab ID Number: 43199-2  
Associated Blank: EW1108B1

Sample ID: GW-02RE : [ 11/02/99 @1110(Water)								
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
11/2/99	WATER	800 ml	N/A	11/08/99	Aromatic:	11/15/99	1	TQ
					Aliphatic:	11/15/99	1	TQ

*No added  
con for USK  
12/17/99*

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	38	U
C19-C36 Aliphatics <sup>1</sup>	50	U
C11-C22 Aromatics <sup>1,2</sup>	110	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	110	U

### TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	6.2	U
2-Methylnaphthalene	6.2	U
Acenaphthylene	6.2	U
Acenaphthene	6.2	U
Fluorene	6.2	U
Phenanthrene	6.2	U
Anthracene	6.2	U
Fluoranthene	6.2	U
Pyrene	6.2	U
Benzo(a)anthracene	6.2	U
Chrysene	6.2	U
Benzo(b)fluoranthene	6.2	U
Benzo(k)fluoranthene	6.2	U
Benzo(a)pyrene	6.2	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	6.2	U
Dibenzo(a,h)anthracene <sup>3</sup>	6.2	U
Benzo(g,h,i)perylene	6.2	U

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	69	40% - 140%
	Ortho-terphenyl(OTP)	64	40% - 140%
Fractionation Surrogates	Biphenyl	69	40% - 140%
	2-Fluorobiphenyl	67	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT Extractable Petroleum Hydrocarbon (EPH) Analysis MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

BSTA: Standard Times

ETR Number: 43199

Lab ID Number: 43199-3

Associated Blank: EW1108B1

Sample ID: **GWK-02RE** : [ 11/02/99 @1510(Water) ]

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
11/2/99	WATER	830 ml	N/A	11/08/99	Aromatic:	11/15/99	1	TQ
					Aliphatic:	11/15/99	1	TQ

### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	36	U
C19-C36 Aliphatics <sup>1</sup>	48	U
C11-C22 Aromatics <sup>1,2</sup>	100	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	100	U

### TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	6.0	U
2-Methylnaphthalene	6.0	U
Acenaphthylene	6.0	U
Acenaphthene	6.0	U
Fluorene	6.0	U
Phenanthrene	6.0	U
Anthracene	6.0	U
Fluoranthene	6.0	U
Pyrene	6.0	U
Benzo(a)anthracene	6.0	U
Chrysene	6.0	U
Benzo(b)fluoranthene	6.0	U
Benzo(k)fluoranthene	6.0	U
Benzo(a)pyrene	6.0	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	6.0	U
Dibenzo(a,h)anthracene <sup>3</sup>	6.0	U
Benzo(g,h,i)perylene	6.0	U

*No colts  
CRM for LKX  
12/17/99*

### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	72	40% - 140%
	Ortho-terphenyl(OTP)	72	40% - 140%
Fractionation Surrogates	Biphenyl	71	40% - 140%
	2-Fluorobiphenyl	69	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



## ANALYTICAL REPORT

### Extractable Petroleum Hydrocarbon (EPH) Analysis

MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

ETR Number: 43199

BSTA: Standard Times

Lab ID Number: 43199-4

Associated Blank: EW1108B1

Sample ID: <b>GW-08RE</b>		:[ ]11/02/99 @1300(Water)						
Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
11/2/99	WATER	800 ml	N/A	11/08/99	Aromatic:	11/15/99	1	TQ
					Aliphatic:	11/15/99	1	TQ

#### EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics <sup>1</sup>	38	U
C19-C36 Aliphatics <sup>1</sup>	150	
C11-C22 Aromatics <sup>1,2</sup>	110	U
Unadjusted C11-C22 Aromatics <sup>1</sup>	110	U

#### TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	6.2	U
2-Methylnaphthalene	6.2	U
Acenaphthylene	6.2	U
Acenaphthene	6.2	U
Fluorene	6.2	U
Phenanthrene	6.2	U
Anthracene	6.2	U
Fluoranthene	6.2	U
Pyrene	6.2	U
Benzo(a)anthracene	6.2	U
Chrysene	6.2	U
Benzo(b)fluoranthene	6.2	U
Benzo(k)fluoranthene	6.2	U
Benzo(a)pyrene	6.2	U
Indeno(1,2,3-cd)pyrene <sup>3</sup>	6.2	U
Dibenzo(a,h)anthracene <sup>3</sup>	6.2	U
Benzo(g,h,i)perylene	6.2	U

*No extracts  
com for 43199  
12/17/99*

#### SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	68	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	68	40% - 140%
	2-Fluorobiphenyl	68	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Values reported reflect their sum.

U = Analyzed but not found.

\* Surrogate value out of acceptable range.



Included in Attachment II are the result summary sheets, annotated with qualifiers, if necessary, as detailed in this memorandum. The complete CSF Sheet is included in Attachment III.

**Compound Quantitation and Reported Quantitation Limits**

A dual column difference of greater than 25 percent was found for the target compounds listed in the following table:

Sample Number	Compound	Percent Difference (%)
AQL50	heptachlor	47.6

The positive result listed above has been qualified as estimated (J), but a bias could not be determined.

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name SWL-TULSA SOW/Method No. OLM04.2  
Case/Project No. 27544 Sampling Date(s) 11/2/99  
SDG No. AQL49 Shipping Date(s) 11/2/99  
No. of Samples/Matrix 3 AQ Date Rec'd by lab 11/3/99

Traffic Report Sample Nos. AQL49-50, -51

Trip Blank No. NONE

Equipment Blank No. \_\_\_\_\_

Bottle Blank No. \_\_\_\_\_

Field Duplicate Nos. from SDG APP39 APP58/APP69 AQL49, AQL50

PES Nos. \_\_\_\_\_

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

Modified Tier I / Tier II

The data were evaluated based upon the following parameters:

- Cooler T = 2°C

- |  |  |                      |
|--|--|----------------------|
| <u>OK</u> - Overall Evaluation of Data             | <u>OK NA</u> - Field Duplicates                                      | - No MS/MSD required |
| <u>OK</u> - Data Completeness (CSF Audit - Tier I) | NA - Sensitivity Check   |                      |
| <u>OK</u> - Preservation & Technical Holding Times | NA - PE Samples/Accuracy Check                                       |                      |
| NA - GC/MS & GC/ECD Instrument Performance Check   | NE - Target Compound Identification                                  | NA - not applicable  |
| <u>OK</u> - Initial & Continuing Calibrations      | * <u>OK</u> - Compound Quantitation and Reported Quantitation Limits | NR - not required    |
| <u>OK</u> - Blanks                                 | NA - TICs  |                      |
| <u>OK</u> - Surrogate Compounds                    | <u>OK</u> - Semivolatile and Pesticide/PCB Cleanup                   | NE - not evaluated   |
| NA - Internal Standards                            | <u>OK</u> - System Performance                                       |                      |
| NR - Matrix Spike/Matrix Spike Duplicate           | <u>OK</u> - Resolution   |                      |

Region I Definitions and Qualifiers:

- A - Acceptable Data
- J - Numerical value associated with compound is an estimated quantity.
- R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
- U - Compound not detected at that numerical sample quantitation limit.
- UJ - The sample quantitation limit is an estimated quantity.
- TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Lisa Kulp-Kowitz Company Name M+E Phone Number 781-246-5200

Date Validation Started 12/9/99

Date Validation Completed 12/14/99

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: there is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	NA
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	
VOA/SV-XV	SEMIVOLATILE CLEANUP	
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

Pest/PCB worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	✓
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	✓
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK-RESOLUTION	✓
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK-RETENTION TIMES	✓
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK-ACCURACY CHECK OF INITIAL CALIBRATION	✓
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK-PESTICIDE DEGRADATION	✓
Pest/PCB-III	INITIAL CALIBRATION	✓
Pest/PCB-IV	CONTINUING CALIBRATION	✓
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	✓
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	✓
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	✓
Pest/PCB-VII	PESTICIDE CLEANUP	✓
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	✓
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	✓
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	✓
Pest/PCB-XII	COMPOUND IDENTIFICATION	✓
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	✓
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

*all but check 1/1/99 included*

I certify that all criteria were met for the worksheets checked above.

Signature: Lisa Kuly-Kronitz

Name: Lisa Kuly-Kronitz

Date: 12/9/99



---

**Attachment I**

**Chains-of-Custody**



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No. 27344

<b>1. Matrix (Enter in Column A)</b> 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	<b>2. Preservative (Enter in Column D)</b> 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	<b>2. Region No.</b> <u>I</u> <b>Sampling Co.</b> <u>Met. Calh. &amp; Co.</u>	<b>4. Date Shipped</b> <u>11/2/99</u> <b>Carrier</b> <u>Fed Ex</u>	<b>6. Date Received -- Received by:</b> <u>S. Hadbor 11/3/99</u>	
		<b>3. Purpose*</b> <input type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI	<b>Sampler (Name)</b> <u>Constante Lopez</u>	<b>Airbill Number</b> <u>813808390709</u> <u>713254445</u>	<b>Laboratory Contract Number</b>  <b>Unit Price</b>  
		<b>Sampler Signature</b> <u>[Signature]</u>	<b>5. Ship To</b> <u>Intermed Lab of OK, Inc</u> <u>1700 West Albany, Suite C</u> <u>Bix Creek Arrows, OK</u> <u>74012</u>	<b>7. Transfer to:</b>  <b>Date Received</b>  	

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	Pos/PCB	High only ARO/TOX						Solids	Water-Miscible Lq.	Water-Imm. Lq.
AQL49	2	L	G	5			X		133674 - 133675	GW-URPE	11/2/99 11:00					
AQL50	2	L	G	5			X		133676 - 133677	GW-URPE	11/2/99 19:00					
* AQL51	2	L	G	5			X		133678 - 133679	GW-URPE	11/2/99 13:00					
									Water Temperature	Blank						

Shipment for Case Complete? (Y/N)	Page <u>1</u> of <u>1</u>	Sample(s) to be Used for Laboratory QC <u>11/2 MS/MSD</u>	Additional Sampler Signatures <u>[Signature]</u>	Chain of Custody Seal Number(s)
-----------------------------------	---------------------------	---	--	---------------------------------

\* 506 Final Sample

#### CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) <u>[Signature]</u>	Date / Time <u>11/2/99 17:30</u>	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <u>S. Hadbor</u>	Date / Time <u>11/3/99 9:55</u>	Remarks	Is custody seal intact? <u>Y/N</u> none <u>1.70</u>

DISTRIBUTION: Blue - Region Copy  
White - Lab Copy for Return to Region

Pink - CLASS Copy  
Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364596

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A21-012-16 REV.

**Attachment II**

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**Sample Result Summary Sheets**



1E  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQL50

Lab Name: SWL-TULSA

Contract: 68-W-99-079

Lab Code: SWOK

Case No.: 27544

SAS No.:

SDG No.: AQL49

Matrix: (soil/water) WATER

Lab Sample ID: 40959.02

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ Decanted: (Y/N) \_\_\_\_\_

Date Received: 11/03/99

Extraction: (Type) SEPF

Date Extracted: 11/04/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/10/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.021	<del>U</del> J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

*check for UKS  
12/20/99*

1E  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQL51

Lab Name: SWL-TULSA Contract: 68-W-99-079

Lab Code: SWOK Case No.: 27544 SAS No.: SDG No.: AQL49

Matrix: (soil/water) WATER Lab Sample ID: 40959.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ Decanted: (Y/N) \_\_\_\_\_ Date Received: 11/03/99

Extraction: (Type) SEPF Date Extracted: 11/04/99

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/10/99

Injection Volume: 0.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.023	J
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

*No edits  
OK for LSK  
12/20/99*

**Attachment III**

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**CSF Sheet**

LABORATORY NAME Southwest Laboratory of Oklahoma MSEIRI  
 CITY/STATE Broken Arrow, Oklahoma  
 CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW \_\_\_\_\_  
 SAS NO. \_\_\_\_\_  
 CONTRACT NO. 68-W-99-079  
 SOW NO. 01m04.2 NOV 16 1999

RECEIVED  
NOV 16 1999  
U.S. EPA-EQA OFFICE

All documents delivered in the Complete SDG File must be original documents where possible.

	U.S. EPA-EQA OFFICE		CHECK	
	FROM	TO	LAB	EPA
1. <u>Inventory Sheet</u> (Form DC-2) (Do not Number)	01	05	OK	UAK
2. <u>SDG Case Narrative</u>				✓
3. <u>SDG Cover Sheet/Traffic Report</u>	06	07		✓
4. <u>Volatiles Data</u>				
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)	NA	NA		NA
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW \_\_\_\_\_  
 \_\_\_\_\_ SAS NO. \_\_\_\_\_

	PAGE NOS		CHECK	
	FROM	TO	LAB	EPA
<b>5. Semivolatiles Data</b>				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA	OK	NM
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
<b>6. Pesticides Data</b>				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)	08	08		✓
MS/MSD Duplicate Summary (Form III PEST)	NA	NA		NM
Method Blank Summary (Form IV PEST)	09	09		✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. <u>27544</u>	SDG NO. <u>AQL49</u>	SDG NOS. TO FOLLOW _____
_____		SAS NO. _____

	PAGE NOS		CHECK	
	FROM	TO	LAB	EPA
<b>6. Pesticides Data (Cont.)</b>				
<b>b. Sample Data</b>	<u>10</u>	<u>19</u>		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			<u>OK</u>	✓
Chromatograms (Primary Column)				✓
Chromatograms from second GC column confirmation				✓
GC Integration report or data system printout				✓
Manual work sheets				✓
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				✓
<b>c. Standards Data</b>	<u>21</u>	<u>91</u>		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)				✓
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				✓
Analyte Resolution Summary (Form VI PEST-4)				✓
Performance Evaluation Mixture (Form VI PEST-5)				✓
Individual Standard Mixture A (FORM VI PEST-6)				✓
Individual Standard Mixture B (FORM VI PEST-7)				✓
Calibration Verification Summary (Form VII PEST-1)				✓
Calibration Verification Summary (Form VII PEST-2)				✓
Analytical Sequence (Form VIII PEST)				✓
Florisil Cartridge Check (Form IX PEST-1)				✓
Pesticide GPC Calibration (Form IX PEST-2)				✓
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				✓
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				✓
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				✓
<b>d. Raw QC Data</b>				
Blank Data	<u>92</u>	<u>104</u>		✓
Matrix Spke/Matrix Spike Duplicate Data	<u>NA</u>	<u>NA</u>		<u>NA</u>

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. AQ L49 SDG NOS. TO FOLLOW \_\_\_\_\_  
 \_\_\_\_\_ SAS NO. \_\_\_\_\_

	PAGE NOS		CHECK	
	FROM	TO	LAB	EPA
6. <u>Pesticides Data</u> (Cont.)				
e. Raw GPC Data	<u>NA</u>	<u>NA</u>	<u>OK</u>	<u>NA</u>
f. Raw Florisil Data	<u>105</u>	<u>113</u>		<u>✓</u>
7. <u>Miscellaneous Data</u>				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	<u>115</u>	<u>117</u>		<u>✓</u>
Internal sample and sample extract transfer chain-of-custody records	<u>119</u>	<u>119</u>		<u>✓</u>
Screening records	<u>NA</u>	<u>NA</u>		<u>NA</u>
All instrument output, including strip charts from screening activities (describe or list)				
_____	<u>NA</u>	<u>NA</u>		<u>NA</u>
_____	<u>NA</u>	<u>NA</u>		<u>NA</u>
8. <u>EPA Shipping/Receiving Documents</u>				
Airbills (No. of shipments <u>1</u> )	<u>121</u>	<u>121</u>		<u>✓</u>
Chain-of-Custody Records	<u>122</u>	<u>122</u>		<u>✓</u>
Sample Tags	<u>123</u>	<u>128</u>		<u>✓</u>
Sample Log-in Sheet (Lab & DCI)	<u>129</u>	<u>130</u>		<u>✓</u>
Miscellaneous Shipping/Receiving Records (describe or list)				
<u>Memo</u>	<u>131</u>	<u>131</u>		<u>✓</u>
_____	<u>NA</u>	<u>NA</u>		<u>NA</u>
9. <u>Internal Lab Sample Transfer Records and Tracking Sheets</u> (describe or list)				
_____	<u>NA</u>	<u>NA</u>		<u>NA</u>
_____	<u>↓</u>	<u>↓</u>		<u>✓</u>
10. <u>Other Records</u> (describe or list)				
Telephone Communication Log	<u>NA</u>	<u>NA</u>		<u>NA</u>
<u>E-mail</u>	<u>132</u>	<u>132</u>		<u>✓</u>
_____	<u>NA</u>	<u>NA</u>	<u>↓</u>	<u>NA</u>
11. <u>Comments:</u>				
_____				
_____				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. A&L 49 SDG NOS. TO FOLLOW \_\_\_\_\_  
 \_\_\_\_\_ SAS NO. \_\_\_\_\_

Completed by: (CLP Lab)	<u>Imelda M. Williams</u> (Signature)	<u>IMELDA M. WILLIAMS / DATA CLERK</u> (Printed Name/Title)	<u>11/15/99</u> (Date)
Verified by: (CLP Lab)	<u>Jeff Cummins</u> (Signature)	<u>Jeff Cummins / Analyst</u> (Printed Name/Title)	<u>11/15/99</u> (Date)
Audited by: (EPA)	<u>Luakohala King</u> (Signature)	<u>Lisa Kelly-Kronitz</u> (Printed Name/Title) <u>Data Validator</u>	<u>12/14/99</u> (Date)



MEMORANDUM

PROJECT NO: J-020655-0002-005 DATE: December 20, 1999
TO: Standard Times Field Site File (BTSA) OFFICE: Wakefield
FROM: L. Kulju Krowitz COMPANY: Metcalf & Eddy
REVIEWED BY: C. Lapite
CC: B. Wyskowski, N. Thurber (memo only)

SUBJECT: Limited QC Review/Modified Tier II-Like Review
Semivolatile and Pesticide/PCB Analytical Results
Southwest Laboratory, Broken Arrow, Oklahoma
Case 27436, SDG APF79

On September 28, 1999, 12 soil samples and 4 aqueous samples were collected at the Standard Times Field BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. Due to an error in collection procedures, only one of the four aqueous samples collected is evaluated here. The remaining locations were re-sampled, and are evaluated in Case 27544, SDG AQL49. The sampling was performed as part of the BTSA RAC WA #-043-SISI-01ZZ. The samples were submitted to Southwest Laboratory, located in Broken Arrow, Oklahoma for the analysis of semivolatile organic compounds (SVOCs) and pesticide/polychlorinated biphenyls (PCBs). All samples were received by the laboratory on October 1, 1999. The data package was received in the M&E Office on October 20, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site, and the guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

- \* Preservation and Technical Holding Times
\* GC/MS Instrument Performance Check
\* Initial and Continuing Calibrations
\* Blanks
\* Surrogate Compounds
\* Internal Standards
\* Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
\* Field Duplicates
\* Laboratory Duplicates
\* Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
\* Compound Quantitation and Reported Quantitation Limits

- \* = All criteria met for this parameter
- NA = Not applicable and/or no information was provided by the laboratory
- NR = Not requested

Included in Attachment II are the result summary sheets, annotated with qualifiers, if necessary, as detailed in this memorandum.

**Initial and Continuing Calibrations**

The following table summarizes the initial (IC) and continuing calibration (CC) semivolatile organic analysis results that failed to meet the calibration criteria of %D<25 and %RSD<30, respectively:

Instrument	HP70F				
	IC	CC	CC	IC	CC
Calibration	8/10/99	10/5/99	10/12/99	10/13/99	10/13/99
Compound	%RSD	%D	%D	%RSD	%D
2,4-dinitrophenol	31.3			30.9	41.8
hexachlorobutadiene				62.5	
2-methylnaphthalene		34.7	38.9		
hexachlorocyclopentadiene		32.8			102.5
2,2'-oxybis(1-chloropropane)			27.5		
bis(2-ethylhexyl)phthalate			27.4		
4,6-dinitro-2-methylphenol					30.7
Associated Samples:	APF79, APF80, APF81, APF82, APF83, APF84, APF85, APF86, APF87, APF88, APF89, APF90, APF90MS, APF90MSD	APF79, APF80, APF82, APF83, APF84, APF85, APF86, APF87, APF88, APF89, APF90, APF90MS, APF90MSD	APF81	APF81DL	APF81DL

%RSD >30, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.  
 %D >25, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.

The following table summarizes the CC pesticide/PCB analysis results that failed to meet the calibration criteria of %D < 25% and 20% for breakdown of 4,4'-DDT or endrin:

Column	RTX-Pest	RTX-Pest2	RTX-Pest	RTX-Pest2
Calibration	10/14/99 1347		10/14/99 1412	
Compound	%D/%breakdown		%D/ %breakdown	
endrin breakdown	22.2	24.2	22.0	23.0
4,4'-DDT breakdown	20.5		21.4	24.5
combined breakdown	42.7	43.1	43.4	47.5
beta-BHC	26.6	33.6	33.6	40.4
endrin	30.1		35.9	31.6
4,4'-DDT	48.7	35.7	49.3	34.2
methoxychlor	45.4		44.4	
Associated Samples	APF79, APF80, APF81, APF82, APF83, APF84, APF85, APF86, APF87, APF88, APF89, APF90			

%D > 25%, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.  
 %breakdown > 20%, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.

**Blanks**

A review of laboratory blank analysis results indicates the presence of laboratory contamination for the SVOCs listed below. Positive sample results reported with concentrations less than the blank action limit for that compound are considered to be false positive results.

Compound	Blank Action Limit (µg/kg)	Affected Samples/Action
di-n-butylphthalate	210	Report CRQL with "U" APF79, APF81
bis(2-ethylhexyl)phthalate	260	Report CRQL with "U" APF79, APF80, APF87, APF88, APF89, APF90

**Blank Actions:**

- \* concentration ≤ QL; report QL on summary table as U.
- \* concentration > QL and < blank action level; report value qualified U.
- \* concentration > blank action level; report value unqualified.

**Surrogate Compounds**

The recoveries for the pesticide/PCB surrogate compounds that did not meet the acceptance criteria and the qualifications applied to the samples are summarized in the following table:

Sample ID	Surrogate % Recoveries				Action
	TCX1	TCX2	DCB1	DCB2	
APF79		291	262	165	Estimate positive (J) results, may be biased high
APF81				709	None, only one surrogate out of criteria
APF82			203	1356	Estimate positive (J) results, may be biased high
APF83	576	414	760	2105	Estimate positive (J) results, may be biased high
APF84			298	500	Estimate positive (J) results, may be biased high
APF85				299	None, only one surrogate out of criteria

**Matrix Spike/Matrix Spike Duplicates**

The pesticide/PCBs that did not meet the acceptance criteria in the MS/MSD analyses of pesticide/PCB aqueous sample APG52 are summarized in the following table:

Compound	MS Recovery (%)	MSD Recovery (%)	QC Limits (%)	Action
gamma-BHC	39	43	56-123	Estimate nondetect (UJ) result in sample APG52, may be a false negative result
heptachlor	28	34	40-131	Estimate positive (J) result in sample APG52, may be biased low
dieldrin	46	48	52-126	none - result considered nondetect due to poor dual column precision
endrin	50	55	56-121	Estimate nondetect (UJ) result in sample APG52, may be a false negative result
4,4'-DDT	28	30	38-127	Estimate positive (J) result in sample APG52, may be biased low

**Compound Quantitation and Reported Quantitation Limits**

A dual column difference or greater than 25 percent was found for several target compounds. The following table lists the compounds reported and the percent differences:

Sample Number	Compound	Percent Difference (%)	Action
APF79	heptachlor	967	Reject positive result, false positive result
	heptachlor epoxide	372	Reject positive result, false positive result
	endosulfan I	257	Reject positive result, false positive result
	dieldrin	200	Reject positive result, false positive result
	4,4'-DDE	45	Estimate positive result, bias not known
	endrin	155	Reject positive result, false positive result
	endosulfan II	50	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF79 (cont)	endrin aldehyde	400	Reject positive result, false positive result
	alpha-chlordane	39.5	Estimate positive result, bias not known
	gamma-chlordane	514	Reject positive result, false positive result
APF80	beta-BHC	515	Sample result less than CRQL, report CRQL, result considered nondetect
	endosulfan I	999.9	Reject positive result, false positive result
	dieldrin	999.9	Reject positive result, false positive result
	endrin	68.8	Estimate positive result, bias not known
	4,4'-DDD	325	Reject positive result, false positive result
	endosulfan sulfate	140	Reject positive result, false positive result
APF81	beta-BHC	999.9	Reject positive result, false positive result
	delta-BHC	464	Sample result less than CRQL, report CRQL, result considered to be nondetect
	heptachlor	278	Sample result less than CRQL, report CRQL, result considered to be nondetect
	heptachlor epoxide	200	Sample result less than CRQL, report CRQL, result considered to be nondetect
	endosulfan I	124	Sample result less than CRQL, report CRQL, result considered to be nondetect
	dieldrin	999.9	Reject positive result, false positive result
	4,4'-DDE	999.9	Reject positive result, false positive result
	endrin	332	Reject positive result, false positive result
	endosulfan II	999.9	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDD	241	Reject positive result, false positive result
	endosulfan sulfate	355	Reject positive result, false positive result
	4,4'-DDT	202	Reject positive result, false positive result
endrin aldehyde	58.2	Estimate positive result, bias not known	

Sample Number	Compound	Percent Difference (%)	Action
APF81 (cont)	alpha-chlordane	173	Sample result less than CRQL, report CRQL, result considered to be nondetect
	gamma-chlordane	61.5	Estimate positive result, bias not known
APF82	beta-BHC	170	none - report result from APF82DL
	heptachlor epoxide	500	Reject positive result, false positive result
	endosulfan I	133	Reject positive result, false positive result
	dieldrin	482	none-report from APF82DL
	4,4'-DDE	60	none-report from APF82DL
	endosulfan sulfate	37	none-report from APF82DL
	4,4'-DDT	9.1	none-report from APF82DL
	methoxychlor	94.4	Estimate positive result, bias not known
	endrin ketone	44.6	none-report from APF82DL
	endrin aldehyde	186	Reject positive result, false positive result
	alpha-chlordane	806	Reject positive result, false positive result
	gamma-chlordane	81.8	Estimate positive result, bias not known
APF82DL	beta-BHC	144	Reject positive result, false positive result
	dieldrin	340	Reject positive result, false positive result
	4,4'-DDE	82.9	Estimate positive result, bias not known
	gamma-chlordane	479	Reject positive result, false positive result
APF83	dieldrin	387	Reject positive result, false positive result
	4,4'-DDE	775	Reject positive result, false positive result
	endrin	100	Reject positive result, false positive result
	endosulfan sulfate	50	Estimate positive result, bias not known
	4,4'-DDT	144	Reject positive result, false positive result
	methoxychlor	583	Reject positive result, false positive result
	endrin ketone	71.4	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF83DL	gamma-chlordane	115	Reject positive result, false positive result
APF84	dieldrin	999.9	Reject positive result, false positive result
	4,4'-DDE	451	Reject positive result, false positive result
	4,4'-DDD	72.4	none - report from APF84DL
	endosulfan sulfate	37.5	Estimate positive result, bias not known
	4,4'-DDT	188	Reject positive result, false positive result
	methoxychlor	155	Reject positive result, false positive result
	endrin ketone	123	Reject positive result, false positive result
	gamma-chlordane	32.4	Estimate positive result, bias not known
APF85	heptachlor epoxide	355	Reject positive result, false positive result
	dieldrin	267	Reject positive result, false positive result
	4,4'-DDE	68.4	Estimate positive result, bias not known
	4,4'-DDD	686	Reject positive result, false positive result
	4,4'-DDT	171	Reject positive result, false positive result
	gamma-chlordane	294	Sample result less than CRQL, report CRQL, result considered to be nondetect
	Aroclor-1254	66.7	Estimate positive result, bias not known
APF86	heptachlor epoxide	330	Reject positive result, false positive result
	dieldrin	227	Reject positive result, false positive result
	4,4'-DDE	150	Reject positive result, false positive result
	4,4'-DDD	999.9	Reject positive result, false positive result
	endosulfan sulfate	669	Reject positive result, false positive result
	gamma-chlordane	115	Reject positive result, false positive result
APF86DL	4,4'-DDT	26.5	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF87	endosulfan I	999.9	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	95.7	Estimate positive result, bias not known
APF88	heptachlor	41.4	Estimate positive result, bias not known
	dieldrin	162	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDE	115	Sample result less than CRQL, report CRQL, result considered to be nondetect
APF89	heptachlor	45.2	Estimate positive result, bias not known
	endosulfan I	999.9	Sample result less than CRQL, report CRQL, result considered to be nondetect
	dieldrin	173	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDE	113	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	95.5	Estimate positive result, bias not known
	methoxychlor	653	Sample result less than CRQL, report CRQL, result considered to be nondetect
APF90	hetpachlor	59.4	Estimate positive result, bias not known
	dieldrin	121	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDE	111	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	78.7	Estimate positive result, bias not known
APG52	delta-BHC	270	Sample result less than CRQL, report CRQL, result considered to be nondetect
	heptachlor	27.1	Estimate positive result, bias not known
	heptachlor epoxide	718	Sample result less than CRQL, report CRQL, result considered to be nondetect

Sample Number	Compound	Percent Difference (%)	Action
APG52 (cont)	endosulfan I	185	Sample result less than CRQL, report CRQL, result considered to be nondetect
	dieldrin	409	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	26.7	Estimate positive result, bias not known
	Aroclor-1254	30.8	Estimate positive result, bias not known

%D >25%, but <100%, and sample result >CRQL, estimate (J) positive result

%D >100%, and sample result >CRQL, reject (R) positive result

%D >25%, but <100%, and sample result <CRQL, remove sample result and replace with CRQL

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name SWL-TULSA SOW/Method No. OLM03.2  
 Case/Project No. 27436 Sampling Date(s) 9/28/99  
 SDG No. APF79 Shipping Date(s) 9/30/99  
 No. of Samples/Matrix 12 soil SWA Date Rec'd by lab 10/1/99  
12 soil/4 of Pest/PCB  
 Traffic Report Sample Nos. APF79-80, -81, -82, -83, -84, -85, -86, -87, -88,  
-89, -90, -AP651, -52, -53, -54, LMK 12/10/99  
AP651, -53, -54  
 Trip Blank No. none were reanalyzed  
 Equipment Blank No. none no part of Case 27544  
 Bottle Blank No. none SDG AOL49  
 Field Duplicate Nos. APF88, APF89  
 PES Nos. none

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

Modified Tier I/Tier II

The data were evaluated based upon the following parameters:

cooler T = 1,4.8°C

- OK Overall Evaluation of Data
- OK Data Completeness (CSF Audit - Tier I)
- OK Preservation & Technical Holding Times
- OK GC/MS & GC/ECD Instrument Performance Check
- \* - Initial & Continuing Calibrations
- \* - Blanks
- OK SWA/PP - Surrogate Compounds
- OK - Internal Standards
- OK SWA/PP - Matrix Spike/Matrix Spike Duplicate
- \* - pest breakdown
- OK - Pest Residuation
- OK Field Duplicates
- NA - Sensitivity Check
- NA - PE Samples/Accuracy Check
- NE Target Compound Identification
- \* - Compound Quantitation and Reported Quantitation Limits
- OK - TICs
- OK - Semivolatile and Pesticide/PCB Cleanup (Flouxit+GAC)
- OK - System Performance
- OK - PEM Pest
- \* worksheet completed since QC issues
- NA - not applicable
- NE - not evaluated

- A - Acceptable Data
- J - Numerical value associated with compound is an estimated quantity.
- R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
- U - Compound not detected at that numerical sample quantitation limit.
- UJ - The sample quantitation limit is an estimated quantity.
- TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Lisa Kulyk-Kowitz Company Name Metal/ <sup>Eddy</sup> Phone Number 781-246-5200

Date Validation Started 12/9/99 Date Validation Completed 12/16/99

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: there is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	✓
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	✓
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	✓
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	NA
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	✓
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	✓
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	NA
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	NA
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	NA
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	NA
VOA/SV-XV	SEMIVOLATILE CLEANUP	✓
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

Pest/PCB worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	✓
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	✓
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK-RESOLUTION	✓
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK-RETENTION TIMES	✓
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK-ACCURACY CHECK OF INITIAL CALIBRATION	✓
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK-PESTICIDE DEGRADATION	✓
Pest/PCB-III	INITIAL CALIBRATION	✓
Pest/PCB-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	✓
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	✓
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	
Pest/PCB-VII	PESTICIDE CLEANUP	✓
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	NA
Pest/PCB-XII	COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	NA
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

I certify that all criteria were met for the worksheets checked above.

Signature: *Lisa Kuly-Krowit*

Name: *Lisa Kuly-Krowit*

Date: *12/14/99*



VOA/SV-IV

IV. CONTINUING CALIBRATION - List all analytes that are outside calibration criteria.

Date of ICAL	Date of CCAL	Instrument	Parameter	Matrix	Compound	%D	RRF	Samples Affected	Action
8/10/99	10/5/99	HP70F	SVOC		2-methyl naphthalene	34.7	ok	APP87-88, -89, -90, -90/MS/MSD, -79 -80, -82, -83, -84, -85, -86, -87, -88, -89, -90	J/UJ
↓	↓	↓	↓	↓	hexachlorocyclo penta dioxane	32.8	ok	↓	↓
8/10/99	10/12/99	↓	↓	↓	2,2'-oxybis(1-chloro propane)	27.5	ok	APP87	↓
↓	↓	↓	↓	↓	2-methyl naphthalene	38.9	ok	↓	↓
↓	↓	↓	↓	↓	bis(2-ethylhexyl) phthalate	27.4	ok	↓	↓
10/13/99	10/13/99	↓	↓	↓	hexachlorocyclo penta dioxane	102.5	ok	APP81 DL	↓
↓	↓	↓	↓	↓	2,4-dinitrophenol	41.8	ok	↓	↓
					9,6-dinitro-2-methylphenol	30.9	ok		

Comments:

Validator: Lisa Kilday-Kromb

Date: 12/9/99

V. BLANK ANALYSIS

List the blank contamination below.

Concentration Level: LOW

Sampler: C. Lapille Company: Hester + Eddy

Contacted: Yes  No  Date: \_\_\_\_\_

1. Laboratory: Method, Storage and Instrument Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
10/1/99	10/5/99	5000 Soil	SBLK1	HP70F	Di-n-butyl phthalate	21 ug/kg
↓	↓	↓	↓	↓	Di-(2-ethylhexyl) phthalate	24 ↓
10/6/99	10/12/99		SBLK2		Di-(2-ethylhexyl) phthalate	26 ↓

2. Field: Equipment (Rinsate), Trip and Bottle Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)

Validator: Luca Suljakovic

Date: 12/9/99





EPA-NE - Data Validation Worksheet  
 VOA/SV - Pest/PCB-VIII

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE - List all MS/MSD analytes that are outside method QC acceptance criteria.

Use a separate worksheet for each MS/MSD pair.

Sample # AP052

Matrix sf

Concentration Level low

Parameter	Compound	MS %Rec	MSD %Rec	RPD	Method QC Limits		Concentration			% RSD	Action
					% Rec	RPD	Unspiked Sample	MS	MSD		
Best	gamma-BHC	39	43	ok	56-123	ok					J/US
↓	heptachlor	28	34		40-131						
↓	aldrin	ok	ok		,						
↓	dieldrin	46	48		52-106						
↓	endrin	50	55		56-121						
↓	4,4'-DDT	28	30	↓	38-127	↓					↓

Validator: Lisa Kuly Kovacs

Date: 12/10/99

**PESTICIDE RESOLUTION CHECK  
(CLP FORM 6G)**

List the resolution between adjacent single peak pesticides in the resolution check mix that are less than 60.0% on either chromatographic column.

Analysis Date	Column	Compounds	%Resolution	Affected Samples

List the validation actions taken below. If there were no positive results for the poorly resolved peaks no action is required.


**PESTICIDE CALIBRATION VERIFICATION  
(CONTINUING CALIBRATION CLP FORMS 7D,7E)**

List the percent difference for the pesticide compounds that exceed 25%. List the percent breakdown for 4,4'-DDT or Endrin that exceed 20.0% or the combined breakdown of these two compounds that exceed 30.0%.

Analysis Date	Column	Compound	%D/Breakdown	Affected Samples	Action
10/14/99	RTX-Pest	4,4-DDT break	20.5	APF79, -80, -81, -82 -83, -84, -85, -86 -87, -88, -89, -90	5/US
1347	↓	endrin peak	20.2		
		combined breakdown	42.7		
		beta-BHC	26.6		
		endrin	30.1		
		4,4-DDT	48.7		
		methoxychlor	45.4		
	RTX-Pest 2	endrin	34.2		
		combined breakdown	43.1		
		beta-BHC	33.6		
		4,4-DDT	35.7		
		<del>methoxychlor</del>			

List the validation actions taken below.


PESTICIDE RESOLUTION CHECK  
(CLP FORM 6G)

List the resolution between adjacent single peak pesticides in the resolution check mix that are less than 60.0% on either chromatographic column.

Analysis Date	Column	Compounds	%Resolution	Affected Samples

List the validation actions taken below. If there were no positive results for the poorly resolved peaks no action is required.

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PESTICIDE CALIBRATION VERIFICATION  
(CONTINUING CALIBRATION CLP FORMS 7D,7E)

List the percent difference for the pesticide compounds that exceed 25%. List the percent breakdown for 4,4'-DDT or Endrin that exceed 20.0% or the combined breakdown of these two compounds that exceed 30.0%.

Analysis Date	Column	Compound	%D/Breakdown		Affected Samples
			RTX Pest	RT Pest 2	
10/14/99 1412	RTX-Pest	Acta-BHC	33.6	40.4	APF 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90
↓	↓	endrin	35.9	31.6	
↓	↓	4,4'-DDT	49.3	34.2	
↓	↓	methoxychlor	44.4	ok	
↓	↓	4,4'-DDT breakdown	21.4	29.0	
↓	↓	endrin	22.0	24.5	
↓	↓	combined ↓	43.4	47.5	

List the validation actions taken below.

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10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.01

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	8.56	8.48	8.58	4.7	
	2	8.62	8.54	8.64	3.9	20.5
Heptachlor	1	9.28	9.22	9.32	3.0	
	2	9.21	9.20	9.30	32	967 R(+)
Heptachlor epoxide	1	11.00	10.91	11.05	5.3	
	2	10.93	10.84	10.98	25	372 R(+)
Endosulfan I	1	11.66	11.61	11.75	9.8	
	2	11.67	11.53	11.67	35	257 R(+)
Dieldrin	1	12.11	12.04	12.18	21	
	2	12.07	12.02	12.16	63	200 R(+)
4,4'-DDE	1	11.58	11.53	11.67	20	
	2	11.87	11.77	11.91	29	45.0 J(+)
Endrin	1	12.50	12.45	12.59	11	
	2	12.66	12.55	12.69	28	155 R(+)
Endosulfan II	1	12.90	12.85	12.99	4.0	
	2	12.93	12.92	13.06	6.0	50.0 J(+)

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.01

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan sulfate	1	14.48	14.34	14.48	14	
	2	14.04	13.99	14.13	13	7.7
4,4'-DDT	1	13.08	13.07	13.21	100	
	2	13.38	13.31	13.45	82	22.0
Methoxychlor	1	14.01	13.91	14.05	47	
	2	14.58	14.51	14.65	40	17.5
Endrin aldehyde	1	13.71	13.59	13.73	3.4	
	2	13.63	13.51	13.65	17	400 <i>R(+)</i>
alpha-Chlordane	1	11.42	11.37	11.51	12	
	2	11.51	11.44	11.58	8.6	39.5 <i>J(+)</i>
gamma-Chlordane	1	11.20	11.13	11.27	4.4	
	2	11.26	11.18	11.32	27	514 <i>R(+)</i>
	1					
	2					
	1					
	2					

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.02

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	8.56	8.48	8.58	8.0	
	2	8.55	8.54	8.64	1.3	515 <i>Report Error</i>
Endosulfan I	1	11.68	11.61	11.75	2.3	
	2	11.67	11.53	11.67	39	999.9 <i>R(+)</i>
Dieldrin	1	12.11	12.04	12.18	2.2	
	2	12.03	12.02	12.16	32	999.9 <i>R(+)</i>
Endrin	1	12.45	12.45	12.59	7.7	
	2	12.67	12.55	12.69	13	68.8 <i>J(+)</i>
4,4'-DDD	1	12.59	12.58	12.72	51	
	2	12.80	12.78	12.92	12	325 <i>R(+)</i>
Endosulfan sulfate	1	14.47	14.34	14.48	24	
	2	14.04	13.99	14.13	10	140 <i>R(+)</i>
4,4'-DDT	1	13.14	13.07	13.21	11	
	2	13.39	13.31	13.45	13	18.2
Methoxychlor	1	13.99	13.91	14.05	53	
	2	14.58	14.51	14.65	56	5.7

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.02

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	14.87	14.83	14.97	20	
	2	15.02	14.91	15.05	17	17.6
Endrin aldehyde	1	13.63	13.59	13.73	7.0	
	2	13.63	13.51	13.65	10	42.9 J(+)
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.03

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
beta-BHC	1	8.56	8.48	8.58	49		
	2	8.55	8.54	8.64	2.6	999.9	R(+)
delta-BHC	1	8.84	8.82	8.92	0.55		
	2	9.13	9.10	9.20	3.1	464	Report CRCL
Heptachlor	1	9.24	9.22	9.32	1.4		
	2	9.24	9.20	9.30	0.37	278	Report CRCL
Heptachlor epoxide	1	11.00	10.91	11.05	1.7		
	2	10.94	10.84	10.98	5.1	200	Report CRCL
Endosulfan I	1	11.67	11.61	11.75	2.2		
	2	11.58	11.53	11.67	0.98	124	Report CRCL
Dieldrin	1	12.12	12.04	12.18	5.2		
	2	12.03	12.02	12.16	110	999.9	R(+)
4,4'-DDE	1	11.58	11.53	11.67	4.8		
	2	11.87	11.77	11.91	54	999.9	R(+)
Endrin	1	12.45	12.45	12.59	19		
	2	12.66	12.55	12.69	4.4	332	R(+)

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.03

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
Endosulfan II	1	12.91	12.85	12.99	2.2		
	2	13.01	12.92	13.06	27	999.9	Reprt CRAL
4,4'-DDD	1	12.60	12.58	12.72	140		
	2	12.80	12.78	12.92	41	241	RLA
Endosulfan sulfate	1	14.40	14.34	14.48	30		
	2	14.05	13.99	14.13	6.6	355	RLA
4,4'-DDT	1	13.14	13.07	13.21	9.6		
	2	13.38	13.31	13.45	29	202	RLA
Endrin ketone	1	14.87	14.83	14.97	47		
	2	15.02	14.91	15.05	50	6.4	
Endrin aldehyde	1	13.64	13.59	13.73	5.5		
	2	13.56	13.51	13.65	8.7	58.2	JCA
alpha-Chlordane	1	11.51	11.37	11.51	0.66		
	2	11.50	11.44	11.58	1.8	173	Reprt CRAL
gamma-Chlordane	1	11.17	11.13	11.27	4.2		
	2	11.27	11.18	11.32	2.6	61.5	JCA

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.04

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	8.56	8.48	8.58	89	
	2	8.63	8.54	8.64	33	170
Heptachlor epoxide	1	11.00	10.91	11.05	20	
	2	10.94	10.84	10.98	120	500
Endosulfan I	1	11.66	11.61	11.75	42	
	2	11.67	11.53	11.67	18	133
Dieldrin	1	12.12	12.04	12.18	67	
	2	12.07	12.02	12.16	390	482
4,4'-DDE	1	11.58	11.53	11.67	100	
	2	11.87	11.77	11.91	160	60.0
Endosulfan sulfate	1	14.40	14.34	14.48	73	
	2	14.06	13.99	14.13	100	37.0
4,4'-DDT	1	13.09	13.07	13.21	360	
	2	13.39	13.31	13.45	330	9.1
Methoxychlor	1	14.02	13.91	14.05	180	
	2	14.63	14.51	14.65	350	94.4

*Report from APF82D*

*RCH*

*RCH*

*Report from APF82D*



*JCH*

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.04

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	14.87	14.83	14.97	83	
	2	15.03	14.91	15.05	120	44.6
Endrin aldehyde	1	13.59	13.59	13.73	140	
	2	13.56	13.51	13.65	49	186
alpha-Chlordane	1	11.51	11.37	11.51	48	
	2	11.51	11.44	11.58	5.3	806
gamma-Chlordane	1	11.16	11.13	11.27	66	
	2	11.27	11.18	11.32	120	81.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*Report from APF82D*

*R(+)*

*R(+)*

*J(+)*

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.04DL

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	7.70	7.64	7.74	10	
	2	7.69	7.64	7.74	16	60.0
beta-BHC	1	8.56	8.48	8.58	100	
	2	8.63	8.54	8.64	41	144 <i>RCH</i>
Heptachlor	1	9.24	9.22	9.32	12	
	2	9.29	9.20	9.30	23	91.7
Heptachlor epoxide	1	11.00	10.91	11.05	8.0	
	2	10.93	10.84	10.98	120	999.9
Endosulfan I	1	11.66	11.61	11.75	27	
	2	11.67	11.53	11.67	21	28.6
Dieldrin	1	12.12	12.04	12.18	75	
	2	12.07	12.02	12.16	330	340 <i>RCH</i>
4,4'-DDE	1	11.58	11.53	11.67	82	
	2	11.87	11.77	11.91	150	82.9 <i>JCH</i>
Endrin	1	12.50	12.45	12.59	14	
	2	12.66	12.55	12.69	38	171

10B  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.04

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%D	
			FROM	TO				
Aroclor-1254	1	11.51	11.43	11.57	1484	1700		
	2	12.12	12.05	12.19	1150			
	3	12.28	12.21	12.35	1545			
	COLUMN 1	4	12.60	12.53	12.67			2667
	5	13.09	13.02	13.16	1758			
COLUMN 2	1	11.27	11.20	11.34	1464	2200	29.4	
	2	11.87	11.80	11.94	2942			
	3	12.07	12.00	12.14	3428			
	4	12.41	12.34	12.48	1095			
	5	13.39	13.31	13.45	2188			
COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							
COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							

J(4)

At least 3 peaks for each column are required for identification of multicomponent analytes

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.04DL

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32 (mm)

GC Column (2): RTX-PEST 2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	12.90	12.85	12.99	16	
	2	12.94	12.92	13.06	8.5	88.2
Endosulfan sulfate	1	14.39	14.34	14.48	27	
	2	14.05	13.99	14.13	22	22.7 ✓
4,4' -DDT	1	13.09	13.07	13.21	350	
	2	13.38	13.31	13.45	300	16.7 ✓
Methoxychlor	1	14.01	13.91	14.05	57	
	2	14.62	14.51	14.65	110	93.0
Endrin ketone	1	14.87	14.83	14.97	60	
	2	15.02	14.91	15.05	66	10.0 ✓
gamma-Chlordane	1	11.16	11.13	11.27	19	
	2	11.27	11.18	11.32	110	479 (RC)
	1					
	2					
	1					
	2					

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.05

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
Dieldrin	1	12.13	12.04	12.18	15		
	2	12.08	12.02	12.16	73	387	RCH
4,4'-DDE	1	11.60	11.53	11.67	16		
	2	11.89	11.77	11.91	140	775	RCH
Endrin	1	12.57	12.45	12.59	11		
	2	12.68	12.55	12.69	22	100	RCH
Endosulfan sulfate	1	14.42	14.34	14.48	12		
	2	14.08	13.99	14.13	18	50.0	JCH
4,4'-DDT	1	13.10	13.07	13.21	41		
	2	13.40	13.31	13.45	100	144	RCH
Methoxychlor	1	13.95	13.91	14.05	120		
	2	14.55	14.51	14.65	820	583	RCH
Endrin ketone	1	14.88	14.83	14.97	96		
	2	14.94	14.91	15.05	56	71.4	JCH
Endrin aldehyde	1	13.60	13.59	13.73	61		
	2	13.58	13.51	13.65	50	22.0	

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.05

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-Chlordane	1	11.21	11.13	11.27	44	
	2	11.27	11.18	11.32	49	11.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*Report from APF83DL*

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.05DL

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	7.65	7.64	7.74	13	
	2	7.65	7.64	7.74	20	53.8
Heptachlor epoxide	1	11.00	10.91	11.05	4.6	
	2	10.94	10.84	10.98	23	400
Dieldrin	1	12.12	12.04	12.18	20	
	2	12.07	12.02	12.16	79	295
4,4'-DDE	1	11.58	11.53	11.67	17	
	2	11.87	11.77	11.91	170	900
Endrin	1	12.54	12.45	12.59	19	
	2	12.66	12.55	12.69	18	5.6
Endosulfan II	1	12.91	12.85	12.99	10	
	2	13.01	12.92	13.06	96	860
Endosulfan sulfate	1	14.39	14.34	14.48	12	
	2	14.06	13.99	14.13	44	267
4,4'-DDT	1	13.09	13.07	13.21	54	
	2	13.38	13.31	13.45	89	64.8

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.05DL

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	14.87	14.83	14.97	92	
	2	15.02	14.91	15.05	120	30.4
alpha-Chlordane	1	11.50	11.37	11.51	8.4	
	2	11.51	11.44	11.58	8.6	2.4
gamma-Chlordane	1	11.17	11.13	11.27	28	
	2	11.27	11.18	11.32	13	115
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*RCA*

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.06

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
Dieldrin	1	12.11	12.04	12.18	10		
	2	12.04	12.02	12.16	120	999.9	RLH
4,4'-DDE	1	11.58	11.53	11.67	6.9		
	2	11.87	11.77	11.91	38	451	RLH
4,4'-DDD	1	12.60	12.58	12.72	150		
	2	12.80	12.78	12.92	87	72.4	JCH Report from APF84X
Endosulfan sulfate	1	14.39	14.34	14.48	8.0		
	2	14.04	13.99	14.13	11	37.5	JCH
4,4'-DDT	1	13.09	13.07	13.21	16		
	2	13.38	13.31	13.45	46	188	RLH
Methoxychlor	1	13.97	13.91	14.05	47		
	2	14.59	14.51	14.65	120	155	RLH
Endrin ketone	1	14.85	14.83	14.97	49		
	2	15.02	14.91	15.05	22	123	RLH
Endrin aldehyde	1	13.63	13.59	13.73	12		
	2	13.63	13.51	13.65	12	0.0	

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF84
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Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.06

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE =====	COL =====	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
gamma-Chlordane	1	11.16	11.13	11.27	3.7	
	2	11.27	11.18	11.32	4.9	32.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

J(4)

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF84DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.06DL

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Dieldrin	1	12.11	12.04	12.18	18	
	2	12.06	12.02	12.16	42	133
4,4'-DDD	1	12.60	12.58	12.72	73	
	2	12.80	12.78	12.92	73	0.0
4,4'-DDT	1	13.09	13.07	13.21	3.2	
	2	13.38	13.31	13.45	55	999.9
Endrin ketone	1	14.87	14.83	14.97	29	
	2	14.93	14.91	15.05	15	93.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.07

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
Heptachlor epoxide	1	10.99	10.91	11.05	2.0		
	2	10.93	10.84	10.98	9.1	355	R(+)
Dieldrin	1	12.11	12.04	12.18	12		
	2	12.05	12.02	12.16	44	267	R(+)
4,4'-DDE	1	11.60	11.53	11.67	38		
	2	11.85	11.77	11.91	64	68.4	J(+)
4,4'-DDD	1	12.60	12.58	12.72	110		
	2	12.84	12.78	12.92	14	686	R(+)
4,4'-DDT	1	13.14	13.07	13.21	35		
	2	13.38	13.31	13.45	95	171	R(+)
Endrin ketone	1	14.87	14.83	14.97	22		
	2	15.02	14.91	15.05	21	4.8	
gamma-Chlordane	1	11.20	11.13	11.27	1.7		
	2	11.27	11.18	11.32	6.7	294	Report CRAL
	1						
	2						

10B  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.07

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%D
			FROM	TO			
Aroclor-1254	1	11.50	11.43	11.57	150	360	
	2	12.11	12.05	12.19	258		
	3	12.28	12.21	12.35	125		
	4	12.60	12.53	12.67	1018		
	5	13.09	13.02	13.16	275		
COLUMN 1	1	11.27	11.20	11.34	128	600	66.7
	2	11.85	11.80	11.94	1179		
	3	12.03	12.00	12.14	894		
	4	12.41	12.34	12.48	186		
	5	13.38	13.31	13.45	643		
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.08

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
Heptachlor epoxide	1	11.00	10.91	11.05	2.0		
	2	10.93	10.84	10.98	8.6	330	RCT)
Dieldrin	1	12.11	12.04	12.18	9.8		
	2	12.06	12.02	12.16	32	227	RCT)
4,4'-DDE	1	11.59	11.53	11.67	12		
	2	11.87	11.77	11.91	30	150	RCT)
4,4'-DDD	1	12.60	12.58	12.72	100		
	2	12.84	12.78	12.92	7.1	999.9	RCT)
Endosulfan sulfate	1	14.48	14.34	14.48	30		
	2	14.05	13.99	14.13	3.9	669	RCT)
4,4'-DDT	1	13.09	13.07	13.21	67		
	2	13.38	13.31	13.45	62	8.1	Report from APF86DL
Endrin ketone	1	14.86	14.83	14.97	12		
	2	15.02	14.91	15.05	10	20.0	
gamma-Chlordane	1	11.16	11.13	11.27	4.0		
	2	11.27	11.18	11.32	8.6	115	RCT)

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF86DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.08DL

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Heptachlor epoxide	1	11.00	10.91	11.05	2.0	
	2	10.93	10.84	10.98	10	400
Dieldrin	1	12.12	12.04	12.18	16	
	2	12.06	12.02	12.16	40	150
4,4'-DDE	1	11.58	11.53	11.67	6.4	
	2	11.87	11.77	11.91	32	400
4,4'-DDD	1	12.60	12.58	12.72	82	
	2	12.84	12.78	12.92	10	720
Endosulfan sulfate	1	14.48	14.34	14.48	12	
	2	14.05	13.99	14.13	7.0	71.4
4,4'-DDT	1	13.09	13.07	13.21	62	
	2	13.38	13.31	13.45	49	26.5
Endrin ketone	1	14.87	14.83	14.97	10	
	2	15.02	14.91	15.05	9.1	9.9
gamma-Chlordane	1	11.15	11.13	11.27	1.6	
	2	11.27	11.18	11.32	13	713

J(1)

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.09

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan I	1	11.68	11.61	11.75	0.87	
	2	11.67	11.53	11.67	22	999.9
4,4'-DDT	1	13.09	13.07	13.21	4.5	
	2	13.38	13.31	13.45	2.3	95.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*Report  
C. REOL*

*OK  
10/14/99  
Report  
C. REOL  
JCS*

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.10

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Heptachlor	1	9.27	9.22	9.32	0.41	
	2	9.24	9.20	9.30	0.29	41.4
Dieldrin	1	12.11	12.04	12.18	1.3	
	2	12.07	12.02	12.16	3.4	162
4,4'-DDE	1	11.58	11.53	11.67	0.79	
	2	11.87	11.77	11.91	1.7	115
4,4'-DDT	1	13.09	13.07	13.21	6.7	
	2	13.39	13.31	13.45	6.8	1.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*JCH*

*Report  
CRAL*

*Report  
CRAL*

10A  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.11

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Heptachlor	1	9.27	9.22	9.32	0.62	
	2	9.25	9.20	9.30	0.90	45.2
Endosulfan I	1	11.66	11.61	11.75	0.55	
	2	11.67	11.53	11.67	10	999.9
Dieldrin	1	12.11	12.04	12.18	1.5	
	2	12.07	12.02	12.16	4.1	173
4,4'-DDE	1	11.58	11.53	11.67	0.80	
	2	11.87	11.77	11.91	1.7	113
4,4'-DDT	1	13.09	13.07	13.21	8.6	
	2	13.38	13.31	13.45	4.4	95.5
Methoxychlor	1	14.01	13.91	14.05	0.73	
	2	14.53	14.51	14.65	5.5	653
	1					
	2					
	1					
	2					

*JCH*  
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 CRAL  
 Report  
 CRAL  
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 CRAL  
 JCH  
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 CRAL

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF90

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40521.12

Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP\_14A

Instrument ID (2): HP\_14B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Heptachlor	1	9.26	9.22	9.32	0.69	
	2	9.24	9.20	9.30	1.1	59.4
Dieldrin	1	12.11	12.04	12.18	1.4	
	2	12.07	12.02	12.16	3.1	121
4,4'-DDE	1	11.58	11.53	11.67	0.71	
	2	11.86	11.77	11.91	1.5	111
4,4'-DDT	1	13.09	13.07	13.21	8.4	
	2	13.38	13.31	13.45	4.7	78.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*J(A)*

*Reprt  
CRAL*

*Reprt  
CRAL*

*J(A)*

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APG52

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40530.02

Date(s) Analyzed: 10/08/99 10/08/99

Instrument ID (1): HP\_03A

Instrument ID (2): HP\_03B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D	
			FROM	TO			
alpha-BHC	1	7.85	7.79	7.89	0.32		
	2	7.68	7.64	7.74	0.26	23.1	
delta-BHC	1	9.25	9.20	9.30	0.020		
	2	9.45	9.38	9.48	0.074	270	Report CCEL
Heptachlor	1	9.69	9.69	9.79	0.059		
	2	9.58	9.49	9.59	0.075	27.1	JCH
Heptachlor epoxide	1	11.81	11.74	11.88	0.033		
	2	11.57	11.49	11.63	0.27	718	Report CCEL
Endosulfan I	1	12.62	12.61	12.75	0.037		
	2	12.45	12.33	12.47	0.013	185	Report CCEL
Dieldrin	1	13.17	13.12	13.26	0.055		
	2	12.95	12.92	13.06	0.28	409	Report CCEL
4,4'-DDE	1	12.53	12.49	12.63	0.16		
	2	12.71	12.61	12.75	0.16	0.0	
4,4'-DDT	1	14.26	14.25	14.39	0.15		
	2	14.42	14.35	14.49	0.19	26.7	JCH

10B  
 PESTICIDE IDENTIFICATION SUMMARY  
 FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

APG52

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Lab Sample ID: 40530.02

Date(s) Analyzed: 10/08/99 10/08/99

Instrument ID (1): HP\_03A

Instrument ID (2): HP\_03B

GC Column (1): RTX-PEST ID: 0.32(mm)

GC Column (2): RTX-PEST 2 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%D	
			FROM	TO				
Aroclor-1254	1	11.36	11.29	11.43	4.1			
	2	12.01	11.95	12.09	2.8			
	3	12.79	12.72	12.86	2.9			
	COLUMN 1	4	13.36	13.30	13.44	1.9		
		5	14.26	14.20	14.34	1.3	2.6	
COLUMN 2	1	11.57	11.50	11.64	4.7			
	2	12.17	12.10	12.24	5.3			
	3	12.95	12.89	13.03	3.3			
	4	13.40	13.34	13.48	2.1			
	5	14.42	14.35	14.49	1.4	3.4	30.8	
COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							
COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							

J(t)

At least 3 peaks for each column are required for identification of multicomponent analytes

**Attachment I**  
**Chains-of-Custody**



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

27436

1. Matrix (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	2. Preservative (Enter in Column D)  1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	2. Region No. <b>I</b>	3. Sampling Co. <b>Medical F+Eddy</b>	4. Date Shipped <b>9/28/99</b>	Carrier <b>Fed Ex</b>	6. Date Received <b>10-1-99</b>	Received by: <i>[Signature]</i>
		Sampler (Name) <b>PEICKSTONGE</b>		Airbill Number <b>813808397554</b>		Laboratory Contract Number	Unit Price
		Sampler Signature <i>[Signature]</i>		5. Ship To <b>Southwest Labs of Oklahoma, Inc. 1700 West Albany, Suite C Broken Arrow OK 74012</b>		7. Transfer to:	
3. Purpose* Early Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input checked="" type="checkbox"/> SI, <input type="checkbox"/> ESI Long-Term Action: <input type="checkbox"/> FS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD		Lead: <input type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED		ATTN: <b>HARRY BURG</b>		Received by:	
						Contract Number	Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 2) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	Pos/PCB High only. ARO/TOX						Solids	Water-Miscible Lq.	Water-Imm. Lq.
APF79	5	LM	G	5	X	X		133902; 133903	SS0201STE	9/28/99 1015	MALP88	DS			
APF80	5	LM	G	5	X	X		133904; 133905	SS0301STE	9/28/99 1520	MALP89	DS			
APF81	5	LM	G	5	X	X		133907; 133908	SS0401STE	9/28/99 1490	MALP90	DS			
APF82	5	LM	G	5	X	X		133910; 133911	SS0402STE	9/28/99 1400	MALP91	DS			
APF83	5	LM	G	5	X	X		133913; 133914	SS0501STE	9/28/99 1350	MALP92	DS			
APF84	5	LM	G	5	X	X		133916; 133917	SS0502STE	9/28/99 1340	MALP93	DS			
APF85	5	LM	G	5	X	X		133919; 133920	SS0601STE	9/28/99 1250	MALP94	DS			
APF86	5	LM	G	5	X	X		133922; 133923	SS0701STE	9/28/99 1220	MALP95	DS			
APF87	5	LM	G	5	X	X		133925; 133926	SS0801STE	9/28/99 1200	MALP96	DS			
APF88	5	LM	G	5	X	X		133928; 133927	SS0901STE	9/28/99 1130	MALP97	DS			

Shipment for Case Complete? (Y/N) **(Y)** Page **1** of **2** Sample(s) to be Used for Laboratory QC **Use APF10 for H2SO4** Additional Sampler Signatures *[Signature]* Chain of Custody Seal Number(s)

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time <b>9/28/99 1400</b>	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date / Time <b>10-1-99 9:00</b>	Remarks <b>8-1°C</b>	Is custody seal intact? Y/N/none

A21-012-16 REV.



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

<b>1. Matrix</b> (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	<b>2. Preservative</b> (Enter in Column D)  1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	<b>2. Region No.</b> I	<b>3. Sampling Co.</b> Mela R. Eddie	<b>4. Date Shipped</b> 9/30/99	<b>Carrier</b> Fed Ex	<b>6. Date Received -- Received by:</b> 27/96 [Signature] 10-1-99	
		<b>Sampler (Name)</b> Derek Stone		<b>Airbill Number</b> 81279925037 813808397554	<b>6. Laboratory Contract Number</b> <b>Unit Price</b>		
		<b>Sampler Signature</b> [Signature]		<b>5. Ship To</b> 1718 251-0545 Southwest Labs of Oklahoma, Inc 1700 West Albany Suite C Broken Arrow OK 74012 ATTN: Nancy Berg		<b>7. Transfer to:</b> <b>Date Received</b>	
<b>3. Purpose</b> <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input checked="" type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD				<b>Received by</b> <b>Contract Number</b> <b>Price</b>			

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 2) Other:	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	Pest/PCB	High only ARO/TOX						Solids	Water-Miscible Liq.	Water-Imm. Liq.
APF89	S	L/M	G	S	X	X		133932; 133933	SSK0401STF	9/23/99 1135	1718 251-0545	DS	FD	SSK0401STF		
APF90	S	L/M	G	S	X	X		133934 - 133937	SS1001STF	9/28/99 1100	1718 251-0545	DS				
Cooler Temperature Reads																

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	2 of 2	Use APF90 for analysis	[Signature]	

#### CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[Signature]	9/30/99 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
		[Signature]	10-1-99 9:00		

A21-012-16 REV.



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

27436

1. Project Code <b>000655</b>	Account Code ---	2. Region No. <b>I</b>	Sampling Co. <b>M+E</b>	4. Date Shipped <b>10/1/99</b>	Carrier <b>Fed EX</b>	6. Matrix (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	7. Preservative (Enter in Column D)  1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved
Regional Information		Sampler (Name) <b>DITOMAR</b>		Airbill Number <b>813808396731 + 813808397598</b>			
Non-Superfund Program <b>Brownfields</b>		Sampler Signature <i>[Signature]</i>		5. Ship To <b>Southwest Labs of Oklahoma, Inc 1700 West Albany Suite C Broken Arrow, OK 74012</b>			
Site Name <b>Brownfields Std Times</b>		3. Purpose		ATTN: <b>Harry Borg</b>			
City, State <b>New Bedford MA</b>		Site Spill ID ---					
		<input type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		<input type="checkbox"/> Long-Term Action <input type="checkbox"/> IFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp., Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier <small>B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform Eval. -- = Not a QC Sample</small>
					VOA	BNA	Pest/POB						
AP651	2	LM	G	5			X	133944-945	6	FGW0201STF	9/30/99 1200	MAL007	DS
AP652	2	LM	G	5			X	133948-49, 133952-53	6	FGW0401STF	9/30/99 1230	MAL002	DS MS-MSD DS
AP653	2	LM	G	5			X	133956 133959	6	FGW0801STF	9/30/99 1500	MAL004	DS 9/30/99
AP654	2	LM	G	5			X	133962 133963	6	FGWK0801STF	9/30/99 1530	MAL006	DS Dupe of AP653
<i>Temperature Blank</i>													

Shipment for Case Complete? <b>(Y/N)</b>	Page <b>1 of 1</b>	Sample(s) to be Used for Laboratory QC <b>Use AP652 in MS/MSD</b>	Additional Sampler Signatures	Chain of Custody Seal Number(s)
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**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time <b>10/1/99 7730</b>	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION: Blue - Region Copy    Pink - CLASS Copy    EPA Form 9110-2    SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
 White - Lab Copy for Return to Region    Yellow - Lab Copy for Return to CLASS    \*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

304583

CALCULATED FROM REPORT ORIGIN OF CHAIN OF CUSTODY FORM INSTRUCTIONS

A21-012-15 REV

**Attachment II**  
**Sample Result Summary Sheets**







SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100514.D

SAMPLE ID: APF79

MATRIX: SOIL

LAB ID: 40521.01

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 002216-33-3	OCTANE, 3-METHYL-	2.28	165
2) 001636-43-7	DECANE, 5,6-DIMETHYL-	2.48	249
3) 001072-05-5	HEPTANE, 2,6-DIMETHYL-	2.57	98
4) 000297-24-5	CYCLOOCTACOSANE	17.33	226
5) 000593-45-3	OCTADECANE	18.29	126
6) 000297-03-0	CYCLOTETRACOSANE	18.34	118
7) 000646-31-1	TETRACOSANE	19.21	196

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.02

Sample wt/vol: 30.8 (g/mL) G

Lab File ID: F9100515.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 5.7

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl) ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	140	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	49	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	950	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	59	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	950	U
83-32-9	Acenaphthene	140	J





SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100515.D

SAMPLE ID: APF80

MATRIX: SOIL

LAB ID: 40521.02

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 000926-82-9	HEPTANE, 3,5-DIMETHYL-	2.28	209
2) 056820-01-0	TRANS-2,3-EPOXYNONANE	2.34	104
3) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	291
4) 002213-23-2	HEPTANE, 2,4-DIMETHYL-	2.56	108
5) 000112-58-3	HEXANE, 1,1'-OXYBIS-	3.25	1579
6) 000107-83-5	PENTANE, 2-METHYL-	4.45	1762
7) 000638-67-5	TRICOSANE	17.81	98
8) 000629-92-5	NONADECANE	18.30	189
9) 000297-03-0	CYCLOTETRACOSANE	18.34	139
10) 000112-95-8	EICOSANE	19.20	166



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.03

Sample wt/vol: 31.3 (g/mL) G

Lab File ID: F9101228.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

pH: 7.3

*MLK  
10/10/99*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4400	U
100-02-7	4-Nitrophenol	4400	U
132-64-9	Dibenzofuran	370	J
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	1600	J
100-01-6	4-Nitroaniline	4400	U
534-52-1	4,6-Dinitro-2-methylphenol	4400	U
86-30-6	N-Nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	4400	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	3300	U
86-74-8	Carbazole	770	J
84-74-2	Di-n-butylphthalate	1700 360	J U
206-44-0	Fluoranthene	14000	U
129-00-0	Pyrene	20000 18000	U
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)anthracene	8900	U
218-01-9	Chrysene	8400	U
117-81-7	bis(2-Ethylhexyl)phthalate	1700	U
117-84-0	Di-n-octylphthalate	1700	U
205-99-2	Benzo(b)fluoranthene	7700	U
207-08-9	Benzo(k)fluoranthene	5000	U
50-32-8	Benzo(a)pyrene	7800	U
193-39-5	Indeno(1,2,3-cd)pyrene	4200	U
53-70-3	Dibenz(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	4700	U

(1) Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.03

Sample wt/vol: 31.3 (g/mL) G

Lab File ID: F9101228.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

pH: 7.3

Number TICs found: 30

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.25	7600	ABJN
2. 613-12-7	ANTHRACENE, 2-METHYL-	12.51	2300	JN
3. 613-12-7	ANTHRACENE, 2-METHYL-	12.56	2300	JN
4. 203-64-5	4H-CYCLOPENTA [DEF] PHENANTHRE	12.69	3700	JN
5. 610-48-0	ANTHRACENE, 1-METHYL-	12.74	1200	JN
6. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.04	1900	JN
7. 84-65-1	9,10-ANTHRACENEDIONE	13.08	1100	JN
8. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	13.48	1300	JN
9. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	13.53	1100	JN
10. 6628-98-4	PYRENE, 4,5-DIHYDRO-	13.62	1200	JN
11.	UNKNOWN PAH	13.84	2500	J
12. 238-84-6	11H-BENZO [A] FLUORENE	14.65	1200	JN
13. 1090-13-7	5,12-NAPHTHACENEDIONE	17.32	1200	JN
14.	UNKNOWN PAH	17.94	2300	J
15.	UNKNOWN PAH	18.09	1400	J
16. 198-55-0	PERYLENE	18.18	4500	JN
17.	UNKNOWN PAH	18.58	1200	J
18.	UNKNOWN PAH	18.84	2600	J
19. 7616-22-0	.GAMMA. -TOCOPHEROL	18.94	2200	JN
20. 59-02-9	VITAMIN E	19.30	1100	JN
21. 191-26-4	DIBENZO [DEF, MNO] CHRYSENE	19.50	1500	JN
22.	UNKNOWN PAH	19.62	1300	J
23. 215-58-7	BENZO [B] TRIPHENYLENE	19.88	1300	JN
24.	1,2:7,8-DIBENZPHENANTHRENE	19.93	1400	JN
25. 191-26-4	DIBENZO [DEF, MNO] CHRYSENE	20.19	1700	JN
26.	UNKNOWN	20.35	1000	J
27.	1,2:3,4-DIBENZPYRENE	21.39	2200	JN
28. 192-65-4	NAPHTHO [1,2,3,4-DEF] CHRYSENE	21.49	1400	JN
29. 192-65-4	NAPHTHO [1,2,3,4-DEF] CHRYSENE	21.55	1300	JN
30. 192-65-4	NAPHTHO [1,2,3,4-DEF] CHRYSENE	22.02	2900	JN

150

SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/13/99

DATA FILE: F9101228.D

SAMPLE ID: APF81

MATRIX: SOIL

LAB ID: 40521.03

DATE ANALYZED: 10/13/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 001069-53-0	HEXANE, 2,3,5-TRIMETHYL-	3.75	1106

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03DL

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101324.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3

*Use APF81 except for pyrene  
Q  
10/10/99*

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

108-95-2	Phenol	3500	U
111-44-4	bis(2-Chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	bis(2-Chloroethoxy)methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	420	DJ
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	440	DJ
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8700	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8700	U
131-11-3	Dimethylphthalate	3500	U
208-96-8	Acenaphthylene	1200	DJ
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8700	U
83-32-9	Acenaphthene	530	DJ





1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA	Contract: 68-D5-0026
Lab Code: SWOK	Case No.: 27436
	SAS No.:
	SDG No.: APF79
Matrix: (soil/water) SOIL	Lab Sample ID: 40521.04
Sample wt/vol: 32.3 (g/mL) G	Lab File ID: F9100517.D
Level: (low/med) LOW	Date Received: 10/01/99
% Moisture: 16	decanted: (Y/N) N
Concentrated Extract Volume: 500 (uL)	Date Analyzed: 10/05/99
Injection Volume: 2.0 (uL)	Dilution Factor: 10.0
GPC Cleanup: (Y/N) Y	pH: 7.4

APF82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	U
111-44-4	bis(2-Chloroethyl) ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
111-91-1	bis(2-Chloroethoxy)methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	1,2,4-Trichlorobenzene	3600	U
91-20-3	Naphthalene	510	J
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	250	J
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	9200	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	9200	U
131-11-3	Dimethylphthalate	3600	U
208-96-8	Acenaphthylene	700	J
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	9200	U
83-32-9	Acenaphthene	1200	J











SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100518.D

SAMPLE ID: APF83

MATRIX: SOIL

LAB ID: 40521.05

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 018589-27-0	HEXANE, 2-IODO-	3.26	2431



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026  
 Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79  
 Matrix: (soil/water) SOIL Lab Sample ID: 40521.06  
 Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100519.D  
 Level: (low/med) LOW Date Received: 10/01/99  
 % Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99  
 Injection Volume: 2.0 (uL) Dilution Factor: 10.0  
 GPC Cleanup: (Y/N) Y pH: 6.4

*CHK  
10/10/99*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	9600	U
100-02-7-----	4-Nitrophenol	9600	U
132-64-9-----	Dibenzofuran	410	J
121-14-2-----	2,4-Dinitrotoluene	3800	U
84-66-2-----	Diethylphthalate	3800	U
7005-72-3-----	4-Chlorophenyl-phenylether	3800	U
86-73-7-----	Fluorene	820	J
100-01-6-----	4-Nitroaniline	9600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	9600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3800	U
101-55-3-----	4-Bromophenyl-phenylether	3800	U
118-74-1-----	Hexachlorobenzene	3800	U
87-86-5-----	Pentachlorophenol	9600	U
85-01-8-----	Phenanthrene	7000	U
120-12-7-----	Anthracene	2200	J
86-74-8-----	Carbazole	670	J
84-74-2-----	Di-n-butylphthalate	3800	U
206-44-0-----	Fluoranthene	12000	U
129-00-0-----	Pyrene	12000	U
85-68-7-----	Butylbenzylphthalate	3800	U
91-94-1-----	3,3'-Dichlorobenzidine	3800	U
56-55-3-----	Benzo(a)anthracene	6200	U
218-01-9-----	Chrysene	6600	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	3800	U
117-84-0-----	Di-n-octylphthalate	3800	U
205-99-2-----	Benzo(b)fluoranthene	5300	U
207-08-9-----	Benzo(k)fluoranthene	6100	U
50-32-8-----	Benzo(a)pyrene	7100	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	4300	U
53-70-3-----	Dibenz(a,h)anthracene	1500	J
191-24-2-----	Benzo(g,h,i)perylene	5300	U

(1) Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.06

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: F9100519.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 6.4

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 29

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	1400	JN
2.	UNKNOWN	1.17	900	BJ
3. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.98	4300	ABJN
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	9800	ABJN
5.	UNKNOWN	3.26	3300	BJ
6.	UNKNOWN	4.43	3500	BJ
7. 2531-84-2	PHENANTHRENE, 2-METHYL-	12.71	1000	JN
8. 613-12-7	ANTHRACENE, 2-METHYL-	12.76	1000	JN
9.	UNKNOWN PAH	12.89	1900	J
10. 613-12-7	ANTHRACENE, 2-METHYL-	12.94	840	JN
11. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.24	1400	JN
12.	UNKNOWN PAH	14.04	980	J
13. 243-17-4	11H-BENZO [B] FLUORENE	14.86	1600	JN
14. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	15.72	950	JN
15.	UNKNOWN PAH	15.95	960	J
16. 2381-31-9	BENZ [A] ANTHRACENE, 8-METHYL-	16.99	1000	JN
17. 205-99-2	BENZ [E] ACEPHENANTHRYLENE	18.15	1200	JN
18.	UNKNOWN PAH	18.31	810	J
19. 192-97-2	BENZO [E] PYRENE	18.40	3800	JN
20.	UNKNOWN	19.16	940	J
21.	UNKNOWN PAH	19.83	1500	J
22.	UNKNOWN PAH	20.11	2900	J
23.	UNKNOWN	20.18	840	J
24.	UNKNOWN PAH	20.42	1200	J
25.	UNKNOWN	21.59	1100	J
26. 192-65-4	NAPHTHO [1, 2, 3, 4-DEF] CHRYSENE	21.67	1600	JN
27. 192-51-8	DIBENZO [FG, OP] NAPHTHACENE	21.77	1100	JN
28. 192-65-4	NAPHTHO [1, 2, 3, 4-DEF] CHRYSENE	21.84	800	JN
29. 191-07-1	CORONENE	22.33	2300	JN
30.				

SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100519.D

SAMPLE ID: APF84

MATRIX: SOIL

LAB ID: 40521.06

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 001713-33-3	7-OXABICYCLO[4.1.0]HEPTANE, 1-METHY	3.45	1507



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.07

Sample wt/vol: 31.8 (g/mL) G

Lab File ID: F9100520.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

*LKK*  
*12/10/99*

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	8600	U J
100-02-7-----	4-Nitrophenol	8600	U
132-64-9-----	Dibenzofuran	570	J
121-14-2-----	2,4-Dinitrotoluene	3400	U
84-66-2-----	Diethylphthalate	3400	U
7005-72-3-----	4-Chlorophenyl-phenylether	3400	U
86-73-7-----	Fluorene	840	J
100-01-6-----	4-Nitroaniline	8600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	8600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3400	U
101-55-3-----	4-Bromophenyl-phenylether	3400	U
118-74-1-----	Hexachlorobenzene	3400	U
87-86-5-----	Pentachlorophenol	8600	U
85-01-8-----	Phenanthrene	7600	
120-12-7-----	Anthracene	1800	J
86-74-8-----	Carbazole	880	J
84-74-2-----	Di-n-butylphthalate	3400	U
206-44-0-----	Fluoranthene	9400	
129-00-0-----	Pyrene	8600	
85-68-7-----	Butylbenzylphthalate	3400	U
91-94-1-----	3,3'-Dichlorobenzidine	3400	U
56-55-3-----	Benzo(a)anthracene	4200	
218-01-9-----	Chrysene	4400	
117-81-7-----	bis(2-Ethylhexyl)phthalate	3400	U
117-84-0-----	Di-n-octylphthalate	3400	U
205-99-2-----	Benzo(b)fluoranthene	3100	J
207-08-9-----	Benzo(k)fluoranthene	4400	
50-32-8-----	Benzo(a)pyrene	4300	
193-39-5-----	Indeno(1,2,3-cd)pyrene	2400	J
53-70-3-----	Dibenz(a,h)anthracene	950	J
191-24-2-----	Benzo(g,h,i)perylene	2600	J

(1) Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.07

Sample wt/vol: 31.8 (g/mL) G

Lab File ID: F9100520.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 6.5

Number TICs found: 19

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.11	1400	JN
2.	UNKNOWN	1.18	790	BJ
3. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	3800	ABJN
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	6300	ABJN
5.	UNKNOWN	3.25	2300	BJ
6.	UNKNOWN	4.44	1700	BJ
7. 610-48-0	ANTHRACENE, 1-METHYL-	12.72	720	JN
8. 613-12-7	ANTHRACENE, 2-METHYL-	12.76	780	JN
9.	UNKNOWN PAH	12.90	1300	J
10. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.25	750	JN
11. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON	13.79	720	JN
12. 2381-21-7	PYRENE, 1-METHYL-	14.86	990	JN
13. 205-82-3	BENZO [J] FLUORANTHENE	18.16	790	JN
14. 192-97-2	BENZO [E] PYRENE	18.40	2300	JN
15.	UNKNOWN PAH	19.83	720	J
16. 215-58-7	BENZO [B] TRIPHENYLENE	20.15	960	JN
17. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	21.60	1400	BJN
18. 192-65-4	NAPHTHO [1,2,3,4-DEF] CHRYSENE	21.67	1300	JN
19. 191-07-1	CORONENE	22.34	1300	JN
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100520.D

SAMPLE ID: APF85

MATRIX: SOIL

LAB ID: 40521.07

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 000294-62-2	CYCLODODECANE	9.20	890

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.08

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F9100521.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	3700	U
111-44-4	bis(2-Chloroethyl) ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
105-67-9	2,4-Dimethylphenol	3700	U
111-91-1	bis(2-Chloroethoxy)methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-methylphenol	3700	U
91-57-6	2-Methylnaphthalene	3700	U
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	9200	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	9200	U
131-11-3	Dimethylphthalate	3700	U
208-96-8	Acenaphthylene	560	J
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	9200	U
83-32-9	Acenaphthene	580	J

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1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.08

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F9100521.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 18

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	1200	JN
2.	UNKNOWN	1.17	790	BJ
3. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	5700	ABJN
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	8700	ABJN
5.	UNKNOWN	3.45	1100	BJ
6.	UNKNOWN HYDROCARBON	4.44	2700	J
7.	UNKNOWN PAH	12.89	770	J
8. 238-84-6	11H-BENZO [A] FLUORENE	14.85	1000	JN
9. 205-99-2	BENZ [E] ACEPHENANTHRYLENE	18.15	1100	JN
10.	UNKNOWN PAH	18.31	830	J
11. 192-97-2	BENZO [E] PYRENE	18.38	2900	JN
12.	UNKNOWN PAH	18.79	780	J
13.	UNKNOWN PAH	19.83	980	J
14. 215-58-7	BENZO [B] TRIPHENYLENE	20.10	810	JN
15.	1,2:4,5-DIBENZPYRENE	21.67	1300	JN
16.	1,2:3,4-DIBENZPYRENE	21.78	920	JN
17. 192-65-4	NAPHTHO [1,2,3,4-DEF] CHRYSENE	21.84	740	JN
18. 191-07-1	CORONENE	22.34	1900	JN
19.				
20.				
21.				
22.				
23.				
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30.				

SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/06/99

DATA FILE: F9100521.D

SAMPLE ID: APF86

MATRIX: SOIL

LAB ID: 40521.08

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 003377-86-4	HEXANE, 2-BROMO-	3.26	2492

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.09

Sample wt/vol: 32.8 (g/mL) G

Lab File ID: F9100508.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.09

Sample wt/vol: 32.8 (g/mL) G

Lab File ID: F9100508.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.9

*WIC  
12/10/99*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	830	U <i>J</i>
100-02-7-----	4-Nitrophenol	830	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	830	U
534-52-1-----	4,6-Dinitro-2-methylphenol	830	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	830	U
85-01-8-----	Phenanthrene	35	J
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-butylphthalate	330	U
206-44-0-----	Fluoranthene	70	J
129-00-0-----	Pyrene	56	J
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	330	U
56-55-3-----	Benzo(a)anthracene	33	J
218-01-9-----	Chrysene	35	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	<del>330</del> 18	<del>U</del> <i>u</i>
117-84-0-----	Di-n-octylphthalate	330	U
205-99-2-----	Benzo(b)fluoranthene	24	J
207-08-9-----	Benzo(k)fluoranthene	48	J
50-32-8-----	Benzo(a)pyrene	31	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	25	J
53-70-3-----	Dibenz(a,h)anthracene	330	U
191-24-2-----	Benzo(g,h,i)perylene	25	J

(1) Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.09

Sample wt/vol: 32.8 (g/mL) G

Lab File ID: F9100508.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.9

Number TICs found: 14

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 563-80-4	2-BUTANONE, 3-METHYL-	1.06	570	BJN
2. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.13	82	JN
3. _____	UNKNOWN	1.18	110	BJ
4. _____	UNKNOWN	1.22	67	BJ
5. _____	UNKNOWN	1.60	150	BJ
6. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	3100	ABJN
7. _____	UNKNOWN	2.17	210	BJ
8. _____	UNKNOWN	2.35	71	J
9. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.39	3200	ABJN
10. _____	UNKNOWN	3.46	1200	BJ
11. _____	UNKNOWN	3.56	84	J
12. _____	UNKNOWN	4.44	510	BJ
13. _____	UNKNOWN AMIDE	15.58	110	BJ
14. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	21.59	69	BJN
15. _____	_____	_____	_____	_____
16. _____	_____	_____	_____	_____
17. _____	_____	_____	_____	_____
18. _____	_____	_____	_____	_____
19. _____	_____	_____	_____	_____
20. _____	_____	_____	_____	_____
21. _____	_____	_____	_____	_____
22. _____	_____	_____	_____	_____
23. _____	_____	_____	_____	_____
24. _____	_____	_____	_____	_____
25. _____	_____	_____	_____	_____
26. _____	_____	_____	_____	_____
27. _____	_____	_____	_____	_____
28. _____	_____	_____	_____	_____
29. _____	_____	_____	_____	_____
30. _____	_____	_____	_____	_____

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SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100508.D

SAMPLE ID: APF87

MATRIX: SOIL

LAB ID: 40521.09

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.29	115
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	159
3) 003221-61-2	OCTANE, 2-METHYL-	2.57	71
4) 002216-34-4	OCTANE, 4-METHYL-	3.25	175

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.10

Sample wt/vol: 31.4 (g/mL) G

Lab File ID: F9100509.D

Level: (low/med) LOW

Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 4.8

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	350	U
111-44-4-----	bis(2-Chloroethyl) ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethylphenol	350	U
111-91-1-----	bis(2-Chloroethoxy)methane	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-8-----	4-Chloroaniline	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	880	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	880	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	350	U
606-20-2-----	2,6-Dinitrotoluene	350	U
99-09-2-----	3-Nitroaniline	880	U
83-32-9-----	Acenaphthene	350	U

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1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA Contract: 68-D5-0026  
 Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79  
 Matrix: (soil/water) SOIL Lab Sample ID: 40521.10  
 Sample wt/vol: 31.4 (g/mL) G Lab File ID: F9100509.D  
 Level: (low/med) LOW Date Received: 10/01/99  
 % Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 4.8

*CHK  
12/10/99*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	22	J
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	41	J
129-00-0	Pyrene	35	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	23	J
218-01-9	Chrysene	27	J
117-81-7	bis(2-Ethylhexyl)phthalate	350	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	21	J
207-08-9	Benzo(k)fluoranthene	25	J
50-32-8	Benzo(a)pyrene	21	J
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	19	J

(1) Cannot be separated from Diphenylamine



SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100509.D

SAMPLE ID: APF88

MATRIX: SOIL

LAB ID: 40521.10

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 000079-29-8	BUTANE, 2,3-DIMETHYL-	1.60	248
2) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.29	138
3) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	230
4) 000871-83-0	NONANE, 2-METHYL-	2.57	104
5) 002216-33-3	OCTANE, 3-METHYL-	2.64	74
6) 002216-34-4	OCTANE, 4-METHYL-	3.26	647
7) 000629-92-5	NONADECANE	18.29	109
8) 055124-79-3	HEPTADECANE, 9-HEXYL-	19.21	181
9) 000629-92-5	NONADECANE	20.06	195







SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100510.D

SAMPLE ID: APF89

MATRIX: SOIL

LAB ID: 40521.11

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.29	139
2) 001636-43-7	DECANE, 5,6-DIMETHYL-	2.49	232
3) 002213-23-2	HEPTANE, 2,4-DIMETHYL-	2.57	87
4) 000297-03-0	CYCLOTETRACOSANE	17.34	134
5) 000629-92-5	NONADECANE	18.29	103
6) 000629-94-7	HENEICOSANE	19.20	165
7) 000629-59-4	TETRADECANE	20.05	99







SOUTHWEST LABORATORY OF OKLAHOMA  
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99

DATA FILE: F9100511.D

SAMPLE ID: APF90

MATRIX: SOIL

LAB ID: 40521.12

DATE ANALYZED: 10/05/99

CAS #	COMPOUND	RT	EST. CONC (ug/Kg )
1) 017312-50-4	DECANE, 2,5-DIMETHYL-	2.28	130
2) 003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	220
3) 003221-61-2	OCTANE, 2-METHYL-	2.57	75
4) 000112-58-3	HEXANE, 1,1'-OXYBIS-	3.25	717
5) 004291-79-6	CYCLOHEXANE, 1-METHYL-2-PROPYL-	3.41	72
6) 000294-62-2	CYCLODODECANE	11.05	82



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF79DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.01DL

Sample wt/vol: 31.8 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 9      decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc)      SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y      pH: 6.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.      COMPOUND      Q

319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	2.7	DPJ
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	7.2	DPJ
959-98-8	Endosulfan I	6.7	DPJ
60-57-1	Dieldrin	22	DPJ
72-55-9	4,4'-DDE	15	DPJ
72-20-8	Endrin	4.9	DPJ
33213-65-9	Endosulfan II	34	U
72-54-8	4,4'-DDD	34	U
1031-07-8	Endosulfan sulfate	34	U
50-29-3	4,4'-DDT	75	DP
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	34	U
7421-93-4	Endrin aldehyde	34	U
5103-71-9	alpha-Chlordane	5.5	DPJ
5103-74-2	gamma-Chlordane	18	U
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	340	U
11104-28-2	Aroclor-1221	690	U
11141-16-5	Aroclor-1232	340	U
53469-21-9	Aroclor-1242	340	U
12672-29-6	Aroclor-1248	340	U
11097-69-1	Aroclor-1254	390	D
11096-82-5	Aroclor-1260	340	U

*use only  
4,4'-DDT  
CHK  
10/10/99*

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.02

Sample wt/vol: 31.1 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 15 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 5.7

Sulfur Cleanup: (Y/N) N

*UJK*  
*10/10/99*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.                      COMPOUND                      Q

319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	<del>1.9</del>	<del>U</del> <i>UJ</i>
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	<del>R 2.3</del>	<del>U</del> <i>R</i> <i>12/14/99</i>
60-57-1	Dieldrin	<del>R 2.2</del>	<del>U</del> <i>R</i> <i>12/14/99</i>
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	7.7	<del>U</del> <i>J</i>
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	<del>R 12</del>	<del>U</del> <i>R</i> <i>12/14/99</i>
1031-07-8	Endosulfan sulfate	<del>R 10</del>	<del>U</del> <i>R</i> <i>12/14/99</i>
50-29-3	4,4'-DDT	11	<del>U</del> <i>J</i>
72-43-5	Methoxychlor	53	<del>U</del> <i>J</i>
53494-70-5	Endrin ketone	17	<del>U</del> <i>J</i>
7421-93-4	Endrin aldehyde	7.0	<del>U</del> <i>J</i>
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.02DL

Sample wt/vol: 31.1 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 15 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.7

Sulfur Cleanup: (Y/N) N

*do not use  
12/10/99*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	5.8	DPJ
50-29-3	4,4'-DDT	13	DPJ
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	10	DPJ
7421-93-4	Endrin aldehyde	37	U
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	19	U
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.03

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 9 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Sulfur Cleanup: (Y/N) N

*UJK*  
12/10/99

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.                      COMPOUND                      Q

319-84-6	alpha-BHC	1.8	U	
319-85-7	beta-BHC	<del>R 2.6</del>	<del>P J</del>	<i>UJK</i> 12/14/99
319-86-8	delta-BHC	1.8 0.55	P J U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
76-44-8	Heptachlor	1.8 0.37	P J U	
309-00-2	Aldrin	1.8	U	
1024-57-3	Heptachlor epoxide	1.8 1.7	P J U	
959-98-8	Endosulfan I	1.8 0.98	P J U	
60-57-1	Dieldrin	R 5.2	<del>P J R</del>	<i>UJK</i> 12/16/99
72-55-9	4,4'-DDE	R 4.8	<del>P J R</del>	
72-20-8	Endrin	R 4.4	<del>P J R</del>	
33213-65-9	Endosulfan II	3.6 2.2	<del>P J J</del>	
72-54-8	4,4'-DDD	R 4.1	<del>P J R</del>	
1031-07-8	Endosulfan sulfate	R 6.6	<del>P J R</del>	
50-29-3	4,4'-DDT	R 9.6	<del>P J R</del>	↓
72-43-5	Methoxychlor	18	U J	
53494-70-5	Endrin ketone	47	J	
7421-93-4	Endrin aldehyde	5.5	<del>P J</del>	
5103-71-9	alpha-Chlordane	1.8 0.66	<del>P J U</del>	
5103-74-2	gamma-Chlordane	2.6	<del>P J</del>	
8001-35-2	Toxaphene	180	U U	
12674-11-2	Aroclor-1016	36	U U	
11104-28-2	Aroclor-1221	72	U U	
11141-16-5	Aroclor-1232	36	U U	
53469-21-9	Aroclor-1242	36	U U	
12672-29-6	Aroclor-1248	36	U U	
11097-69-1	Aroclor-1254	36	U U	
11096-82-5	Aroclor-1260	36	U	



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.04

Sample wt/vol: 31.8 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 16 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.4

Sulfur Cleanup: (Y/N) N

*UKK*  
12/10/99

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.                      COMPOUND                      UG/KG                      Q

319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	<del>R 41 28</del>	<del>DE</del>
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	R 20	P
959-98-8	Endosulfan I	R 18	P
60-57-1	Dieldrin	<del>R 95 57</del>	<del>DE</del>
72-55-9	4,4'-DDE	82 100	<del>DE</del>
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	22 73	<del>DE</del>
50-29-3	4,4'-DDT	300 330	<del>DE</del>
72-43-5	Methoxychlor	180	P
53494-70-5	Endrin ketone	60 83	<del>DE</del>
7421-93-4	Endrin aldehyde	R 49	<del>DE</del>
5103-71-9	alpha-Chlordane	R 5.3	<del>DE</del>
5103-74-2	gamma-Chlordane	<del>R 49 56</del>	<del>DE</del>
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	1700	<del>DE</del>
11096-82-5	Aroclor-1260	37	U

*UKK*  
12/16/99

*UKK*  
12/16/99

*UKK*  
12/16/99

*UKK*  
12/16/99



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.05

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 13      decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc)      SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

*LKK*  
10/10/99

CAS NO.                      COMPOUND                      UG/KG                      Q

319-84-6-----	alpha-BHC	2.0	U
319-85-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.0	U
1024-57-3-----	Heptachlor epoxide	2.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	R 15	J R
72-55-9-----	4,4'-DDE	R 16	J R
72-20-8-----	Endrin	R 11	J R
33213-65-9-----	Endosulfan II	3.8	U
72-54-8-----	4,4'-DDD	3.8	U
1031-07-8-----	Endosulfan sulfate	12	J
50-29-3-----	4,4'-DDT	R 41	J R
72-43-5-----	Methoxychlor	R 120	J R
53494-70-5-----	Endrin ketone	56	J
7421-93-4-----	Endrin aldehyde	50	J
5103-71-9-----	alpha-Chlordane	2.0	U
5103-74-2-----	gamma-Chlordane	R 134	J R
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	38	U
11104-28-2-----	Aroclor-1221	77	U
11141-16-5-----	Aroclor-1232	38	U
53469-21-9-----	Aroclor-1242	38	U
12672-29-6-----	Aroclor-1248	38	U
11097-69-1-----	Aroclor-1254	38	U
11096-82-5-----	Aroclor-1260	38	U

*LKK*  
12/14/99

*LKK*  
12/16/99

*LKK*  
12/16/99

*LKK*  
12/14/99

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF83DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.05DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 13      decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y      pH: 6.5

Sulfur Cleanup: (Y/N) N

*use only  
g-chlordane*

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.      COMPOUND      Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	13	DPJ
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	4.6	DPJ
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	20	DPJ
72-55-9	4,4'-DDE	17	DPJ
72-20-8	Endrin	18	DJ
33213-65-9	Endosulfan II	10	DPJ
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	12	DPJ
50-29-3	4,4'-DDT	54	DP
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	92	DP
7421-93-4	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	8.4	DJ
5103-74-2	gamma-Chlordane	13	DPJ
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	770	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	380	U

*use  
12/10/99*

583

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.06

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 16 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 6.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

*CKK*  
*10/10/99*

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	UJ
319-86-8	delta-BHC	2.0	UU
58-89-9	gamma-BHC (Lindane)	2.0	UU
76-44-8	Heptachlor	2.0	UU
309-00-2	Aldrin	2.0	UU
1024-57-3	Heptachlor epoxide	2.0	UU
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	R 10	<del>P</del> JR CKK
72-55-9	4,4'-DDE	R 6.9	<del>P</del> JR 12/16/99
72-20-8	Endrin	3.8	UJ
33213-65-9	Endosulfan II	3.8	UU
72-54-8	4,4'-DDD	73 87	<del>P</del> J
1031-07-8	Endosulfan sulfate	8.0	<del>P</del> J
50-29-3	4,4'-DDT	R 16	<del>P</del> JR CKK
72-43-5	Methoxychlor	R 47	<del>P</del> JR 12/16/99
53494-70-5	Endrin ketone	R 22	<del>P</del> JR
7421-93-4	Endrin aldehyde	12	J
5103-71-9	alpha-Chlordane	2.0	UU
5103-74-2	gamma-Chlordane	3.7	<del>P</del> J
8001-35-2	Toxaphene	200	UU
12674-11-2	Aroclor-1016	38	UU
11104-28-2	Aroclor-1221	78	UU
11141-16-5	Aroclor-1232	38	UU
53469-21-9	Aroclor-1242	38	UU
12672-29-6	Aroclor-1248	38	UU
11097-69-1	Aroclor-1254	38	UU
11096-82-5	Aroclor-1260	38	U







1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.08

Sample wt/vol: 32.8 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 10 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	UJ
319-86-8	delta-BHC	1.7	UU
58-89-9	gamma-BHC (Lindane)	1.7	UU
76-44-8	Heptachlor	1.7	UU
309-00-2	Aldrin	1.7	UU
1024-57-3	Heptachlor epoxide	R 2.0	<del>P</del> FR
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	R 9.8	<del>P</del> FR
72-55-9	4,4'-DDE	R 12	<del>P</del> JR
72-20-8	Endrin	3.4	UJ
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	R 7.1	<del>P</del> FR
1031-07-8	Endosulfan sulfate	R 3.9	<del>P</del> FR
50-29-3	4,4'-DDT	4952	<del>P</del> J
72-43-5	Methoxychlor	17	UJ
53494-70-5	Endrin ketone	10	
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	UU
5103-74-2	gamma-Chlordane	R 4.0	<del>P</del> FR
8001-35-2	Toxaphene	170	UU
12674-11-2	Aroclor-1016	34	UU
11104-28-2	Aroclor-1221	68	UU
11141-16-5	Aroclor-1232	34	UU
53469-21-9	Aroclor-1242	34	UU
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	380	
11096-82-5	Aroclor-1260	34	U

*UJK*  
12/10/99

*UJK*  
12/16/99

V

1042



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA Contract: 68-D5-0026  
 Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79  
 Matrix: (soil/water) SOIL Lab Sample ID: 40521.09  
 Sample wt/vol: 31.0 (g/mL) G Lab File ID: \_\_\_\_\_  
 % Moisture: 3 decanted: (Y/N) N Date Received: 10/01/99  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/14/99  
 Injection Volume: 0.5 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	1.7 U
319-85-7	beta-BHC	1.7 U
319-86-8	delta-BHC	1.7 U
58-89-9	gamma-BHC (Lindane)	1.7 U
76-44-8	Heptachlor	1.7 U
309-00-2	Aldrin	1.7 U
1024-57-3	Heptachlor epoxide	1.7 U
959-98-8	Endosulfan I	1.7 0.87 U
60-57-1	Dieldrin	3.3 U
72-55-9	4,4'-DDE	3.3 U
72-20-8	Endrin	3.3 U
33213-65-9	Endosulfan II	3.3 U
72-54-8	4,4'-DDD	3.3 U
1031-07-8	Endosulfan sulfate	3.3 U
50-29-3	4,4'-DDT	2.3 3.3 2.5 U
72-43-5	Methoxychlor	17 U
53494-70-5	Endrin ketone	3.3 U
7421-93-4	Endrin aldehyde	3.3 U
5103-71-9	alpha-Chlordane	1.7 U
5103-74-2	gamma-Chlordane	1.7 U
8001-35-2	Toxaphene	170 U
12674-11-2	Aroclor-1016	33 U
11104-28-2	Aroclor-1221	67 U
11141-16-5	Aroclor-1232	33 U
53469-21-9	Aroclor-1242	33 U
12672-29-6	Aroclor-1248	33 U
11097-69-1	Aroclor-1254	33 U
11096-82-5	Aroclor-1260	33 U



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.10

Sample wt/vol: 32.0 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 10 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 4.8

Sulfur Cleanup: (Y/N) N

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

*Ullk*  
*12/10/99*

319-84-6-----alpha-BHC	1.8	U
319-85-7-----beta-BHC	1.8	U
319-86-8-----delta-BHC	1.8	U
58-89-9-----gamma-BHC (Lindane)	1.8	U
76-44-8-----Heptachlor	0.29	<del>U</del> J
309-00-2-----Aldrin	1.8	U
1024-57-3-----Heptachlor epoxide	1.8	U
959-98-8-----Endosulfan I	1.8	U
60-57-1-----Dieldrin	<del>3.4</del> 1.3	<del>U</del> U
72-55-9-----4,4'-DDE	<del>3.4</del> 0.79	<del>U</del> U
72-20-8-----Endrin	3.4	U
33213-65-9-----Endosulfan II	3.4	U
72-54-8-----4,4'-DDD	3.4	U
1031-07-8-----Endosulfan sulfate	3.4	U
50-29-3-----4,4'-DDT	6.7	U
72-43-5-----Methoxychlor	18	U
53494-70-5-----Endrin ketone	3.4	U
7421-93-4-----Endrin aldehyde	3.4	U
5103-71-9-----alpha-Chlordane	1.8	U
5103-74-2-----gamma-Chlordane	1.8	U
8001-35-2-----Toxaphene	180	U
12674-11-2-----Aroclor-1016	34	U
11104-28-2-----Aroclor-1221	70	U
11141-16-5-----Aroclor-1232	34	U
53469-21-9-----Aroclor-1242	34	U
12672-29-6-----Aroclor-1248	34	U
11097-69-1-----Aroclor-1254	41	U
11096-82-5-----Aroclor-1260	34	U



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.11

Sample wt/vol: 31.4 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 10 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 5.0

Sulfur Cleanup: (Y/N) N

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	UJ
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	0.62	PJ J
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	PJ U
60-57-1	Dieldrin	3.5 <del>1.8</del>	PJ U
72-55-9	4,4'-DDE	3.5 <del>1.8</del>	PJ U
72-20-8	Endrin	3.5	UJ
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	4.4	P J
72-43-5	Methoxychlor	18 <del>0.73</del>	PJ UJ
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	35	U

*UJC*  
*12/10/99*

1126

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF89DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.11DL

Sample wt/vol: 31.4 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 10 decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/13/99

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

*do not use UG/KG 12/10/99*

<del>319-84-6-----alpha-BHC</del>	<del>18</del>	<del>U</del>
<del>319-85-7-----beta-BHC</del>	<del>18</del>	<del>U</del>
<del>319-86-8-----delta-BHC</del>	<del>18</del>	<del>U</del>
<del>58-89-9-----gamma-BHC (Lindane)</del>	<del>18</del>	<del>U</del>
<del>76-44-8-----Heptachlor</del>	<del>0.94</del>	<del>DJ</del>
<del>309-00-2-----Aldrin</del>	<del>18</del>	<del>U</del>
<del>1024-57-3-----Heptachlor epoxide</del>	<del>18</del>	<del>U</del>
<del>959-98-8-----Endosulfan I</del>	<del>18</del>	<del>U</del>
<del>60-57-1-----Dieldrin</del>	<del>4.1</del>	<del>DPJ</del>
<del>72-55-9-----4,4'-DDE</del>	<del>1.6</del>	<del>DPJ</del>
<del>72-20-8-----Endrin</del>	<del>35</del>	<del>U</del>
<del>33213-65-9-----Endosulfan II</del>	<del>35</del>	<del>U</del>
<del>72-54-8-----4,4'-DDD</del>	<del>35</del>	<del>U</del>
<del>1031-07-8-----Endosulfan sulfate</del>	<del>35</del>	<del>U</del>
<del>50-29-3-----4,4'-DDT</del>	<del>3.4</del>	<del>DPJ</del>
<del>72-43-5-----Methoxychlor</del>	<del>180</del>	<del>U</del>
<del>53494-70-5-----Endrin ketone</del>	<del>35</del>	<del>U</del>
<del>7421-93-4-----Endrin aldehyde</del>	<del>35</del>	<del>U</del>
<del>5103-71-9-----alpha-Chlordane</del>	<del>18</del>	<del>U</del>
<del>5103-74-2-----gamma-Chlordane</del>	<del>18</del>	<del>U</del>
<del>8001-35-2-----Toxaphene</del>	<del>1800</del>	<del>U</del>
<del>12674-11-2-----Aroclor-1016</del>	<del>350</del>	<del>U</del>
<del>11104-28-2-----Aroclor-1221</del>	<del>710</del>	<del>U</del>
<del>11141-16-5-----Aroclor-1232</del>	<del>350</del>	<del>U</del>
<del>53469-21-9-----Aroclor-1242</del>	<del>350</del>	<del>U</del>
<del>12672-29-6-----Aroclor-1248</del>	<del>350</del>	<del>U</del>
<del>11097-69-1-----Aroclor-1254</del>	<del>33</del>	<del>DJ</del>
<del>11096-82-5-----Aroclor-1260</del>	<del>350</del>	<del>U</del>

1143



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF90DL

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) SOIL

Lab Sample ID: 40521.12DL

Sample wt/vol: 31.1 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 4      decanted: (Y/N) N

Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/13/99

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y      pH: 7.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

319-84-6-----alpha-BHC	17	U
319-85-7-----beta-BHC	17	U
319-86-8-----delta-BHC	17	U
58-89-9-----gamma-BHC (Lindane)	17	U
76-44-8-----Heptachlor	0.87	DPJ
309-00-2-----Aldrin	17	U
1024-57-3-----Heptachlor epoxide	17	U
959-98-8-----Endosulfan I	17	U
60-57-1-----Dieldrin	1.6	DPJ
72-55-9-----4,4'-DDE	33	U
72-20-8-----Endrin	33	U
33213-65-9-----Endosulfan II	33	U
72-54-8-----4,4'-DDD	33	U
1031-07-8-----Endosulfan sulfate	33	U
50-29-3-----4,4'-DDT	3.2	DPJ
72-43-5-----Methoxychlor	170	U
53494-70-5-----Endrin ketone	33	U
7421-93-4-----Endrin aldehyde	33	U
5103-71-9-----alpha-Chlordane	17	U
5103-74-2-----gamma-Chlordane	17	U
8001-35-2-----Toxaphene	1700	U
12674-11-2-----Aroclor-1016	330	U
11104-28-2-----Aroclor-1221	670	U
11141-16-5-----Aroclor-1232	330	U
53469-21-9-----Aroclor-1242	330	U
12672-29-6-----Aroclor-1248	330	U
11097-69-1-----Aroclor-1254	330	U
11096-82-5-----Aroclor-1260	330	U

*do not  
use  
10/10/99*

117i

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APG52

Lab Name: SWL-TULSA

Contract: 68-D5-0026

Lab Code: SWOK

Case No.: 27436

SAS No.:

SDG No.: APF79

Matrix: (soil/water) WATER

Lab Sample ID: 40530.02

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Received: 10/02/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 10/04/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/08/99

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.2

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

*UKC*  
*12/10/99*

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.26	
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	<i>0.050</i> <del>0.020</del>	<i>PJ</i> <i>U</i>
58-89-9	gamma-BHC (Lindane)	0.050	U <i>J</i>
76-44-8	Heptachlor	0.059	<i>P</i> <i>J</i>
309-00-2	Aldrin	0.050	U <i>J</i>
1024-57-3	Heptachlor epoxide	<i>0.050</i> <del>0.033</del>	<i>PJ</i> <i>U</i>
959-98-8	Endosulfan I	<i>0.050</i> <del>0.013</del>	<i>PJ</i> <i>U</i>
60-57-1	Dieldrin	<i>0.10</i> <del>0.055</del>	<i>PJ</i> <i>U</i>
72-55-9	4,4'-DDE	0.16	
72-20-8	Endrin	0.10	U <i>J</i>
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.15	<i>P</i> <i>J</i>
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.6	<i>P</i> <i>J</i>
11096-82-5	Aroclor-1260	1.0	U

Attachment III

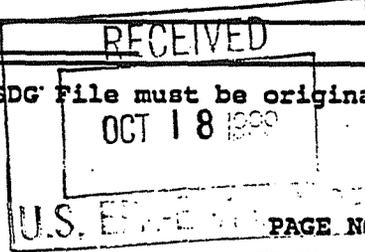
CSF Sheet

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

04/25/99 10:18:99 Standard Times  
910008-0A

MPE

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA  
 CITY/STATE BROKEN ARROW, OKLAHOMA  
 CASE NO. 27436 SDG NO. APF79 SDG NOS. TO FOLLOW \_\_\_\_\_  
 \_\_\_\_\_ SAS NO. \_\_\_\_\_  
 CONTRACT NO. 68-D5-0026  
 SOW NO. OLMO 3.2



All documents delivered in the Complete SDG File must be original documents where possible.

*Evidence Audit  
Protocol*

	PAGE NOS		CHECK	
	FROM	TO	LAB	EPA
1. <u>Inventory Sheet</u> (Form DC-2) (Do not number)			NA	NA
2. <u>SDG Case Narrative</u>	1	19	✓	✓
3. <u>SDG Cover Sheet/Traffic Report</u>	20	23		✓
4. <u>Volatiles Data</u>				
a. <u>QC Summary</u>				
System Monitoring Compound Summary (Form II VOA)	NA	NA		NA
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. <u>Sample Data</u>				
TCL Results - (Form I VOA)				
Tentatively Identified Compounds (Form I VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass spectra of all reported TICs with three best library matches				
c. <u>Standards Data (All Instruments)</u>				
Initial Calibration Data (Form VI VOA)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA)				
RICs and Quantitation Reports for all Standards				
d. <u>Raw QC Data</u>				
HFB				
Blank Data	✓	✓		
Matrix Spike/Matrix Spike Duplicate Data	✓	✓		

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. <u>27436</u>	SDG NO. <u>APF79</u>	SDG NOS. TO FOLLOW _____
SAS NO. _____		

	PAGE NOS			CHECK
	FROM	TO	LAB	EPA
<b>6. Pesticides (Cont.)</b>				
<b>b. Sample Data</b>		<u>929</u>	<u>1192</u>	
TCL Results - Organic Analysis Data Sheet (Form I PEST)			<u>ga</u>	✓
Chromatograms (Primary Column)				✓
Chromatograms from second GC column confirmation				✓
GC Integration report or data system printout				✓
Manual work sheets				✓
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background- subtracted mass spectra of target compounds (samples & standards)				✓
<b>c. Standards Data</b>		<u>1193</u>	<u>1410</u>	
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)				✓
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				✓
Analyte Resolution Summary (Form VI PEST-4)				✓
Performance Evaluation Mixture (Form VI PEST-5)				✓
Individual Standard Mixture A (Form VI PEST-6)				✓
Individual Standard Mixture B (Form VI PEST-7)				✓
Calibration Verification Summary (Form VII PEST-1)				✓
Calibration Verification Summary (Form VII PEST-2)				✓
Analytical Sequence (Form VIII PEST)				✓
Florisil Cartridge Check (Form IX PEST-1)				✓
Pesticide GPC Calibration (Form IX PEST-2)				✓
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				✓
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				✓
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				✓
<b>d. Raw QC Data</b>				
Blank Data		<u>1411</u>	<u>1439</u>	✓
Matrix Spike/Matrix Spike Duplicate Data		<u>1440</u>	<u>1456</u>	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 27436 SDG NO. APF79 SDG NOS. TO FOLLOW \_\_\_\_\_  
SAS NO. \_\_\_\_\_

11. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Completed by: (CLP Lab)	<u>Emma Morton</u> (Signature)	<u>Emma Morton Data Clerk</u> (Printed Name/Title)	<u>10/15/99</u> (Date)
Verified by: (CLP Lab)	<u>Gaye Alexander</u> (Signature)	<u>Gaye Alexander Data Clerk</u> (Printed Name/Title)	<u>10-15-99</u> (Date)
Audited by: (EPA)	<u>Lisa Kuly-Kronf</u> (Signature)	<u>Lisa Kuly-Kronf Validator</u> (Printed Name/Title)	<u>12/14/99</u> (Date)



Included in Attachment II are the result summary sheets, annotated with the qualifiers detailed in this memorandum.

### Blank Analysis Results

A review of laboratory blank analysis results indicate the presence of laboratory contamination for the elements listed below.

Element	Action Limit (ug/l)	Sample(s) Affected
Aluminum	210	MALQ02, MALQ04, MALQ06, MALQ07
Antimony	12.5	None
Arsenic	10.5	MALQ02, MALQ04, MALQ06
Barium	15.5	MALQ04, MALQ06
Beryllium	1.5	MALQ02, MALQ04, MALQ07
Lead	14.5	None
Mercury	-0.5	None
Magnesium	213	None
Potassium	81	None
Selenium	9.5	None
Silver	3.0	None
Cyanide	-12.2	Reject ND MALQ02, MALQ06 J positive MALQ04, MALQ07

Samples which have been listed as being affected for all indicated elements with the exception of cyanide had concentrations of the elements less than 5x the highest blank concentration for that element. The positive result in these samples for the elements indicated (with the exception of cyanide) have been reported as the samples' quantitation limit, and have been qualified as non-detect (U).

Due to the presence of negative cyanide blank contamination at a concentration that exceeded 2xIDL, positive cyanide results are estimated and non-detect cyanide results are rejected. Positive results may be biased low and non-detect results may be false negatives. Sample MALQ03 was not analyzed for cyanide.

**ICP Interference Check Sample Results**

Interferant	Element	Sample(s) Affected	Action
Calcium	Copper	MALQ02	Reject ND
Calcium	Silver	MALQ02	Estimate (UJ) ND
Calcium	Vanadium	MALQ02	Estimate (UJ) ND

The positive copper result in sample MALQ02 is rejected due to interference from calcium. It is not possible to determine if the positive copper result is due to the high concentration of calcium in this sample. The non-detect silver and vanadium results are estimated due to negative interference from calcium.

**Matrix Spike**

The following matrix spike recoveries did not meet acceptable criteria indicating possible matrix interference. Sample results may be biased low.

Element	%Recovery	Sample(s) Affected
Antimony	66.5%	All

%R 30-74%: Estimate positive and non-detect results (J and UJ, respectively).

**Laboratory Duplicate Results**

For laboratory duplicate samples MALQ02 and MALQ02D, poor laboratory precision is noted due to the large discrepancy in the cyanide results between the sample result and that of its duplicate. Furthermore, the cyanide result for this sample MALQ02 has been rejected due to negative blank contamination (the potential for a false negative result exists). There is uncertainty with the cyanide result for this sample MALQ02. It is recommended that another sample from this location be collected and resubmitted for analysis.

Element	Sample Result (ug/l)	Duplicate Sample Result (ug/l)
Cyanide	0.9U	13.7

**Inductively Coupled Plasma (ICP) Serial Dilution Results**

The following percent difference result did not meet acceptable criteria, indicating a suppression due to sample matrix has occurred and the reported sample results may be biased low.

Element	%D	Sample(s) Affected
Potassium	36.7%	All

%D>15%: Estimate positive and non-detect results (J and UJ, respectively).

Results will be qualified as indicated above.

**Attachment I**  
**Chains-of Custody**



United States Environmental Protection Agency  
Contract Laboratory Program

### Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.

27436

1. Project Code <b>020655</b>	Account Code —	2. Region No. Sampling Co. <b>I M+E</b>	4. Date Shipped Carrier <b>10/1/99 Fed Ex</b>	6. Matrix (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	7. Preservative (Enter in Column D)  1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved
Regional Information		3. Sampler (Name) <b>DHMAZ</b>	Airbill Number <b>813808397602</b>		
Non-Superfund Program <b>Brownfields</b>		3. Sampler Signature <b>DHMAZ</b>	5. Ship To <b>Sentinel, Inc 2805 Bob Wallace Ave Suite L3 Huntsville, AL 35805</b>		
Site Name <b>Brownfields Std Times</b>		3. Purpose* Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED	Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI	Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD	ATTN: <b>Beverly Kilgore</b>
City, State <b>New Bedford MA</b>	Site Spill ID				

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	PH	Conduct.						
MALQ07	2	4m	G	1/23	X	X						133942-943	FGW0201ST	9/30/99 1200	APG51	DS	
MALQ02	2	4m	G	1/23	X	X						133946-947, 133950-951	FGW0401ST	9/30/99 1230	APG52	PS	MS-MSD-05
MALQ04	2	4m	G	1/23	X	X						133956 133957	FGW0801ST	9/30/99 1500	APG53	DS	
MALQ06	2	4m	G	2,3	X	X						133960 133961	FGW0201ST	9/30/99 1530	APG54	DS	Dup of APG 04
MALQ03	2	4m	G	2	X							133964	GW1001ST	9/30/99 1100	None	DS	
<i>Temperature Blank</i>																	

Shipment for Case Complete? (Y/N) <b>(N)</b>	Page <b>1 of 1</b>	Sample(s) to be Used for Laboratory QC <b>Use MALQ02 for MS</b>	Additional Sampler Signatures	Chain of Custody Seal Number(s)
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CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) <i>Beverly Kilgore</i>	Date / Time <b>10/1/99 1730</b>	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION: Green - Region Copy  
White - Lab Copy for Return to Region

Pink - CLASS Copy  
Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364311

A21-012-13 REV

**Attachment II**  
**Sample Result Summary Sheets**

INORGANIC ANALYSIS DATA SHEET

MALQ02

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALQ02

Matrix (soil/water): WATER

Lab Sample ID: 25287S

Level (low/med): LOW

Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	98.4	<del>BU</del>		P
7440-36-0	Antimony	2.2	U	J	P
7440-38-2	Arsenic	2.8	<del>BU</del>		P
7440-39-3	Barium	756			P
7440-41-7	Beryllium	0.20	<del>BU</del>		P
7440-43-9	Cadmium	2.4	<del>B</del>		P
7440-70-2	Calcium	508000			P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	<del>6.6</del>	<del>B</del>	R	P
7439-89-6	Iron	2770		E	P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	312000			P
7439-96-5	Manganese	550			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	120000	J	F	P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U	J	P
7440-23-5	Sodium	2310000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.80	U	J	P
7440-66-6	Zinc	16.3	U		P
	Cyanide	<del>0.90</del>	<del>U</del>	R	CA

8/11/00

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALQ03

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALQ02

Matrix (soil/water): WATER

Lab Sample ID: 25288S

Level (low/med): LOW

Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2530			P
7440-36-0	Antimony	352	J	M	P
7440-38-2	Arsenic	46.1			P
7440-39-3	Barium	2830			P
7440-41-7	Beryllium	47.3			P
7440-43-9	Cadmium	53.0			P
7440-70-2	Calcium	494000			P
7440-47-3	Chromium	196			P
7440-48-4	Cobalt	505			P
7440-50-8	Copper	293			P
7439-89-6	Iron	3650		F	P
7439-92-1	Lead	18.6			P
7439-95-4	Magnesium	304000			P
7439-96-5	Manganese	1030			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	522			P
7440-09-7	Potassium	117000	J	F	P
7782-49-2	Selenium	9.8			P
7440-22-4	Silver	58.8			P
7440-23-5	Sodium	2220000			P
7440-28-0	Thallium	50.1			P
7440-62-2	Vanadium	503			P
7440-66-6	Zinc	480			P
	Cyanide				NR

SA 11/10/00

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALQ04

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALQ02

Matrix (soil/water): WATER

Lab Sample ID: 25289S

Level (low/med): LOW

Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

SM 11.00

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	51.4	<del>U</del>		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	3.8	<del>U</del>		P
7440-39-3	Barium	10.4	<del>U</del>		P
7440-41-7	Beryllium	0.10	<del>U</del>		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	88700			P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.80	<del>U</del>		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	1410			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	22100			P
7439-96-5	Manganese	940			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	<del>U</del>		P
7440-09-7	Potassium	18100	<del>U</del>		P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	63200			P
7440-28-0	Thallium	2.3	<del>U</del>		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	0.93	<del>U</del> *		CA

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALQ06

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALQ02

Matrix (soil/water): WATER

Lab Sample ID: 25290S

Level (low/med): LOW

Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	46.3	<del>U</del>		P
7440-36-0	Antimony	2.2	U	<del>S</del>	P
7440-38-2	Arsenic	2.9	<del>U</del>		P
7440-39-3	Barium	9.3	<del>U</del>		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	86500			P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.70	<del>A</del>		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	1450		<del>7</del>	P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	20800			P
7439-96-5	Manganese	878			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	<del>U</del>		P
7440-09-7	Potassium	16700	<del>U</del>	<del>A</del>	P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	58700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	<del>0.90</del>	<del>U</del>	<del>R</del> *	CA

SH 11/10/99

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALQ07

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALQ02

Matrix (soil/water): WATER

Lab Sample ID: 25291S

Level (low/med): LOW

Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.7	BU		P
7440-36-0	Antimony	2.2	USM		P
7440-38-2	Arsenic	2.1	U		P
7440-39-3	Barium	40.4	B		P
7440-41-7	Beryllium	0.10	BU		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	56000			P
7440-47-3	Chromium	0.70	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6650			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	8650			P
7439-96-5	Manganese	373			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.80	BJ		P
7440-09-7	Potassium	6360	U		P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	8940			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	B		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	11.1	J	*	CA

SM 1/10/00

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

**Attachment III**

**CSF Sheet**

DG/ES+T  
10-13-99

Standard Times Reg. I  
9910008-IA  
M+E

FULL INORGANICS COMPLETE SDG FILE (CSP) INVENTORY SHEET

LABORATORY NAME Sentinel Inc  
 CITY/STATE Huntsville AL  
 CASE NO. 27436 SDG NO. MALQ02 <sup># 10/8/99</sup>  
 SDG NOS. TO FOLLOW  
 SAS NO. \_\_\_\_\_  
 CONTRACT NO. 68-D5-0169  
 SOW NO. LM04

RECEIVED  
NOV 19 1999

All documents delivered in the Complete SDG File must be original documents where possible. (Reference Exhibit B, Section II F and Section III J.)

	Page Nos.		(Please Check:)	
	From	To	Tab	Region
1. Inventory Sheet (DC-1) (Do not number)			✓	SA 12/3/99
2. Cover Page	1	1	✓	SA 12/3/99
3. Inorganic Analysis Data Sheet (Form I-IN)	2	6	✓	SA 12/3/99
4. Initial & Continuing Calibration Verification (Form IIA-IN)	7	10	✓	SA 12/3/99
5. CRDL Standards for AA and ICP (Form IIB-IN)	11	11	✓	SA 12/3/99
6. Blanks (Form IIC-IN)	12	13	✓	SA 12/3/99
7. ICP Interference Check Sample (Form IID-IN)	14	15	✓	SA 12/3/99
8. Spike Sample Recovery (Form VA-IN)	16	16	✓	SA 12/3/99
9. Post Digest Spike Sample Recovery (Form VB-IN)	17	17	✓	SA 12/3/99
10. Duplicates (Form VI-IN)	18	18	✓	SA 12/3/99
11. Laboratory Control Sample (Form VII-IN)	19	19	✓	SA 12/3/99
12. Standard Addition Results (Form VIII-IN)	—	—	—	—
13. ICP Serial Dilutions (Form IX-IN)	20	20	✓	SA 12/3/99
14. Instrument Detection Limits (Form X-IN)	21	23	✓	SA 12/3/99
15. ICP Inter-element Correction Factors (Form XIIA-IN)	24	24	✓	SA 12/3/99
16. ICP Intra-element Correction Factors (Form XIIB-IN)	25	26	✓	SA 12/3/99
17. ICP Linear Ranges (Form XIII-IN)	27	27	✓	SA 12/3/99
18. Preparation Log (Form XIII-IN)	28	30	✓	SA 12/3/99
19. Analysis Run Log (Form XIV-IN)	31	34	✓	SA 12/3/99
20. ICP Raw Data	35	120	✓	SA 12/3/99
21. Furnace AA Raw Data	—	—	—	—
22. Mercury Raw Data	121	123	✓	SA 12/3/99
23. Cyanide Raw Data	124	128	✓	SA 12/3/99
24. Preparation Logs Raw Data	129	132	✓	SA 12/3/99
25. Percent Solids Determination Log	—	—	—	—

Page Nos.

(Please Check:)

	From	To	Lab	Region
26. Traffic Report / <u>CCC</u>	<u>133</u>	<u>133</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
EPA Shipping/Receiving Documents	—	—	—	—
Airbill (No. of Shipments <u>1</u> )	<u>134</u>	<u>134</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
Chain-of-Custody Records / <u>Seals</u>	<u>135</u>	<u>135</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
Sample Tags	<u>136</u>	<u>139</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
Sample Log-in Sheet (Lab & DCI)	<u>140</u>	<u>142</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
SDG Cover Sheet	<u>143</u>	<u>143</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
28. Misc. Shipping/Receiving Records (list all individual records)	—	—	—	—
Telephone Logs	—	—	—	—
29. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	—	—	—	—
<u>SDG Tracking</u>	<u>144</u>	<u>144</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
30. Internal Original Sample Prep & Analysis Records (describe or list)	—	—	—	—
Prep Records _____	<u>145</u>	<u>150</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
Analysis Records _____	<u>151</u>	<u>156</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
Description _____	—	—	—	—
31. Other Records (describe or list)	—	—	—	—
Telephone Communications Log	<u>157</u>	<u>159</u>	<input checked="" type="checkbox"/>	<u>SW 12/31/99</u>
32. Comments:	—	—	—	—

Completed by (CLP Lab):

Laurie Harden  
(Signature)

Laurie Harden  
Asst. Doc. Control  
(Print Name & Title)

10/8/99  
(Date)

Audited by (EPA):

Sheila Harvey  
(Signature)

Sheila Harvey Chemist  
(Print Name & Title)

12/3/99  
(Date)

Region I  
Data Review Worksheet

Site Name: Standard Times  
Reference Number: \_\_\_\_\_

**REGION I REVIEW OF INORGANIC  
CONTRACT LABORATORY DATA PACKAGE**

The hardcopied (laboratory name) Sentinel, Inc data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No.	<u>27436</u>	SAS No.	_____	Sampling Date (s)	<u>9/30/99</u>
SDG No.	<u>MALQ02</u>	Matrix	<u>Aqueous</u>	Shipping Date (s)	<u>10/1/99</u>
No. of Samples	<u>5</u>			Date(s) received by lab	<u>10/2/99</u>

Traffic Report Numbers MALQ02, MALQ03, MALQ04, MALQ06,  
MALQ07

Trip Blank No. \_\_\_\_\_  
Equipment Blank Number: \_\_\_\_\_  
Field Duplicate Numbers: MALQ04 / MALQ06

SOW No. 11M04.0 requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions, EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> -Data Completeness | <input checked="" type="checkbox"/> -Field Duplicates           |
| <input checked="" type="checkbox"/> -Holding Times     | <input checked="" type="checkbox"/> -Lab Control Sample Results |
| <input checked="" type="checkbox"/> -Calibrations      | <input checked="" type="checkbox"/> -Furnace AA results         |
| -Blanks  | -ICP Serial Dilution Results                                    |
| -ICP Interference Check Results                        | <input checked="" type="checkbox"/> -Detection Limit Results    |
| -Matrix Spike Recoveries                               | <input checked="" type="checkbox"/> -Sample Quantitation        |
| -Laboratory Duplicates                                 |   |

Overall Comments: \_\_\_\_\_  
\_\_\_\_\_

- Definitions and Qualifiers:
- A - Acceptable data
  - J - Approximate data due to quality control criteria
  - R - Reject data due to quality control criteria
  - U - Analyte not detected

Reviewer: Shella Harvey Date: 12/3/99

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

Matrix: Aqueous

DATE:	(ICB)/CCB#	PREP BL	ANALYTE	CONC. UNITS
			Sb	2.5 ug/l
			As	2.1
			Ba	1.4
			Be	0.3
			Pb	2.9
			Hg	- 0.1
			K	16.2
			Se	1.9
			Ag	0.6

2. Equipment/Trip Blanks

DATE:	EQUIP BL #	ANALYTE	CONC. UNITS

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

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IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections and below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

Matrix: Aqueous

DATE	CB/CS	PREP BL	ANALYTE	CONCENTR
			Al	43.6
			Ba	<del>2.2</del> , 2.4, 3.1
			Be	0.1, 0.1, 0.2
			Mg	42.6
			Hg	-0.1, -0.1
			Cd	-2.4, -2.4

ug/l

2. Equipment Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC UNITS

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

IV A. BLANK ANALYSIS RESULTS Sections 1-3)

List the blank concentration in sections 1 and 2 below. A separate worksheet should be used for full inorganic water blanks.

1. Laboratory Blanks

Matrix: aqueous

DATE	CB/CCB#	PREP BL	ANALYTE	CONC UNITS
			CN	-2.436 ug/l

2. Equipment Trip Blanks

DATE	EQUIP BL#	ANALYTE	CONC UNITS

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**IV B. BLANK ANALYSIS RESULTS (Section 4)**

**4. Blank Actions**

The Action Level for any analyte is equal to 5X the highest concentration of that analyte found in any blank. (Use 5X the absolute value for any negative blank results). The Action Level for samples which have been concentrated or diluted should be multiplied by the concentration/dilution factor. No positive result should be reported unless the concentration of the analyte in the sample exceeds the Action Level (AL) for that analyte. Specific actions are as follows:

1. When the concentration is greater than the DL, but less than the Action Level, report the sample concentration detected with a "U".
2. When the sample concentration is greater than the Action Level, report the sample concentration unqualified.

Matrix: aqueous

Matrix: \_\_\_\_\_

<u>ELEMENT</u>	<u>MAX. CONC.</u> <u>UNITS</u>	<u>AL</u> <u>UNITS ug/l</u>	<u>ELEMENT</u>	<u>MAX. CONC.</u> <u>UNITS</u>	<u>AL</u> <u>UNITS</u>
Al	43.6	210			
Sb	2.5	12.5			
As	2.1	10.5			
Ba	3.1	15.5			
Bz	0.3	1.5			
Pb	2.9	14.5			
Hg	-0.1	-0.5			
Mg	42.6	213			
K	16.2	81.0			
Se	1.9	9.5			
Ag	0.6	3.0			
Cd	-2.436	-12.18			

NOTE: Blanks analyzed during a soil case must be converted to mg/kg in order to compare them with the sample results.

$$\text{conc. in ug/l} \times \frac{\text{Volume diluted to (200ml)}}{\text{Weight digested (1gram)}} \times \frac{1\text{L}}{1000\text{ml}} \times \frac{1000\text{g}}{1\text{kg}} \times \frac{1\text{mg}}{1000\text{ug}} = \text{mg/kg}$$

Multiplying this result by 5 to arrive at the Action Level gives a final result in mg/kg which can then be compared to sample results

**V B. ICP INTERFERENCE CHECK SAMPLE (Section 3)**

3. Report the concentration of any elements detected in the ICS A solution > 2X IDL that should not be present.

ELEMENT	CONC. DETECTED IN THE ICS	CONC. OF INTERFERENTS IN THE ICS					
		AL	CA	FE	MG		
Ba	3	0.2 NA	0.3 NA	500,000	500,000	180,000	500,000
Cl	40	NA	NA				
Cu	23	NA	NA				
Co	7	NA	NA				
Mn	45	NA	NA				
Ni	16	NA	NA				
Ag	-4	US	NA				

Estimate the concentration produced by the interfering element in all affected samples. See the guidelines for examples. List the samples affected by the interferences below:

SAMPLE AFFECTED	ELEMENT AFFECTED	SAMPLE CONC. (µg/L)	SAMPLE INTERFERENT CONC. (µg/L)				ESTIMATED INTERF. (µg/L)
			AL	CA	FE	MG	
Vn	-6	US					

**ACTIONS:**

1. In general, the sample data can be accepted without qualification if the sample concentrations of Al, Ca, Fe, and Mg are less than 50% of their respective levels in the ICS solution.
2. Estimate (J) positive results for affected elements for samples with levels of interferences 50% or more of that in the ICS solution.
3. Reject (R) positive results if the reported concentration is due entirely to the interfering element.
4. Estimate (UJ) non-detected results for which false negatives are suspect.

Give an explanation for any actions taken below:

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**VI. MATRIX SPIKE**

TR = MAL902

Matrix: Agua

**Recovery Criteria**

List the percent recoveries for analytes which did not meet the required criteria.

- S - amount of spike added
- SSR - spiked sample result
- SR - sample result

ANALYTE	SSR	SR	S	%R	ACTION
Sb	332.6	2.20	500	66.5	J(F) UJ (ND)

Matrix Spike Actions apply to all samples of the same matrix.

**ACTIONS:**

1. If the sample concentration exceed the spike concentration by a factor of 4 or more, no action is taken.
2. If any analyte does not meet the %R criteria, follow the actions stated below:

PERCENT RECOVERY

	<u>&lt; 30%</u>	<u>30%-74%</u>	<u>&gt;125%</u>
Positive Sample Results	J	J	J
Non-detected Results	R	UJ	A

**2. Frequency Criteria**

- A. Was a matrix spike prepared at the required frequency? Yes or No
- B. Was a post digestion spike analyzed for elements that did not meet the required criteria for matrix spike recovery? Yes or No

A separate worksheet should be filled out for each matrix spike pair.

Region I  
Inorganic Data Review Worksheets

**VII. LABORATORY DUPLICATES**

List the concentrations of any analyte not meeting the criteria for duplicate precision. For soil duplicates, calculate the CRDL in mg/kg using the sample weight, volume and percent solids data for the sample. Indicate what criteria was used to evaluate precision by circling either the RPD or CRDL for each element.

Matrix: Agallus

ELEMENT	CRDL		SAMPLE # <u>MAL02</u>	DUPLICATE # <u>MAL02D</u>	RPD	ACTION
	WATER ug/L	SOIL mg/kg				
Aluminum	200					
Antimony	60					
Arsenic	10					
Barium	200					
Beryllium	5					
Cadmium	5					
Calcium	5000					
Chromium	10					
Cobalt	50					
Copper	25					
Iron	100					
Lead	5					
Magnesium	5000					
Manganese	15					
Mercury	0.2					
Nickel	40					
Potassium	5000					
Selenium	5					
Silver	10					
Sodium	5000					
Thallium	10					
Vanadium	50					
Zinc	20					
Cyanide	10		<u>0.9 U</u>	<u>13.6978</u>	<u>NC</u>	<u>J(+)</u>

Laboratory duplicate actions should be applied to all other samples of the same matrix type.

**ACTION:**

1. Estimate (J) positive results for elements which have an RPD > 20% for waters and > 35% for soils.
2. If sample results are less than 5X the CRDL, estimate (J) positive results for elements whose absolute difference is > CRDL (2X CRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

**XI. INDUCTIVELY COUPLED PLASMA (ICP) SERIAL DILUTION ANALYSIS**

Serial dilutions were performed for each matrix and results of the diluted sample analysis agreed within  $\pm 10\%$  of the original undiluted analysis.

Serial dilution was not performed for the following:

Serial dilutions were performed, but analytical results did not agree within  $\pm 10\%$  for analyte concentrations greater than 50X the IDL before dilution.

Report all results below that do not meet the required laboratory criteria for ICP serial dilution analysis.

Matrix:

ELEMENT	IDL	50X IDL	SAMPLE RESULT	SERIAL DILUTION	% D	ACTION
Aluminum						
Antimony						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Nickel						
Potassium		440	120300.2	76207.5	36.7	J(+)/UJ(MD)
Silver						
Sodium						
Vanadium						
Zinc						

Actions apply to all samples of the same matrix

**ACTIONS:**

1. Estimate (J) all positive results and (UJ) all nondetects if the % D > 15%.

MEMORANDUM

To: Standard Times Brownsfields Site Assessment File (J-020655-0002-005)

From: S. Harvey, Metcalf & Eddy (M&E) *SHA*

Rev'd By: C. Lapite *CLP*

Subject: Review of Analytical Results  
RAS Case No. 27436; SDG No. MALP88

cc: B. Wyskowski  
N. Thurber (memo only)

Date: December 15, 1999

On 28 September 1999 12 soil samples were collected at the Standard Times site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part of a Brownsfields Site Assessment. The samples were submitted to Sentinel, Inc. laboratory, located in Huntsville, Alabama for the analysis of low concentration metals and cyanide. All samples were received by the laboratory on 1 October 1999. The data package was received in the M&E Office on 14 November 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with guidance received from EPA Work Assignment Manager, James Chow, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

- \*     •     Preservation and Technical Holding Times
- Initial and Continuing Calibration
- Blanks
- \*     •     Surrogate Compounds
- Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
- \*     •     Laboratory Duplicates
- \*     •     Field Duplicates
- \*     •     Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
  
- \*     =     All criteria met for this parameter.
- NA    =     Not Applicable. No information was provided by the laboratory.

Included in Attachment II are the result summary sheets, annotated with the qualifiers detailed in this memorandum.

### CRDL Recovery

The 2XCRDL calibration standard for ICP did not meet the acceptable criteria indicating that results close to the CRDL are questionable. A bias in the quantitation could not be determined.

Analyte	Percent Recovery	Samples Affected
Mercury	60%	All
Lead	125.7%; 127%	All

%R<80%: J (+) results and UJ (ND)

%R>120%: J (+)

### Blank Analysis Results

A review of laboratory blank analysis results indicate the presence of laboratory contamination for the compounds listed below.

Element	Sample(s) Affected
Beryllium	MALP88-90, MALP92-99
Cadmium	MALP91
Selenium	MALP89, MALP90, MALP92-97, MALP99
Silver	MALP88, MALP89, MALP91-98
Mercury	MALP90, MALP93-95
Cyanide	MALP90-93, MALP97

Samples which have been listed as being affected had concentrations of the elements less than 5x the highest blank concentration for that element. The positive result in these samples for the elements indicated have been reported as the samples' quantitation limit, and have been qualified as non-detect (U).

**Matrix Spike**

The following matrix spike recoveries did not meet acceptable criteria indicating possible matrix interference. Sample results may be biased low.

Analyte	%Recovery	Sample(s) Affected
Antimony	41.2%	All
Lead	70.1%	All

%R 30-74%: J (+), UJ (ND)

Results will be qualified as indicated above.



United States Environmental Protection Agency  
Contract Laboratory Program

### Inorganic Traffic Report & Chain of Custody Record (For Inorganic:CLP Analysis)

Case No.

27436

<b>1. Matrix (Enter in Column A)</b> 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. DII (High only) 7. Waste (High only) 8. Other (specify in Column A)	<b>2. Preservative (Enter in Column D)</b> 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2Cr2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved	<b>2. Region No./Sampling Co.</b> I Metcalf & Eddy	<b>4. Date Shipped</b> 9/30/99 <b>Carrier</b> FedEx	<b>6. Date Received -- Received by:</b> 10/1/99 Amanda Blissett	
		<b>Sampler (Name)</b> Drink Storage	<b>Airbill Number</b> 813808397505	<b>Laboratory Contract Number</b> 68-DS-0169	<b>Unit Price</b> 85.00
		<b>Sampler Signature</b> D Stange	<b>5. Ship To:</b> General Electric 2500 Bob Wallace Ave Suite 103 Huntsville, AL 35800 ATTN: Beverly Kilgore	<b>7. Transfer to:</b> Received by:	<b>Date Received</b>

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E - RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases		
					Digs. Metals	Total Metals	Cyanide	NO <sub>2</sub> /NO <sub>3</sub>	Low only: Fluoride	High only: pH Conduct						Solids	Water-Miscible Liq.	Water-Imm. Liq.
MALP88	5	L/m	G		X	X				133901	550201STF	9/29/99	APF79	DS				
MALP89	5	L/m	G		X	X				133906	550301STF	7/28/99 1520	APF80	DS				
MALP90	5	L/m	G		X	X				133909	550401STF	7/28/99 1450	APF81	DS				
MALP91	5	L/m	G		X	X				133912	550402STF	7/28/99 1400	APF82	DS				
MALP92	5	L/m	G		X	X				133915	550501STF	7/28/99 1255	APF83	DS				
MALP93	5	L/m	G		X	X				133918	550502STF	7/28/99 1340	APF84	DS				
MALP94	5	L/m	G		X	X				133921	550601STF	7/28/99 1245	APF85	DS				
MALP95	5	L/m	G		X	X				133924	550701STF	7/28/99 020	APF86	DS				
MALP96	5	L/m	G		X	X				133927	550801STF	7/28/99 0200	APF87	DS				
MALP97	5	L/m	G		X	X				133930	550901STF	7/28/99 0130	APF88	DS				

<b>Shipment for Case Complete? (Y/N)</b> N	<b>Page</b> 1 of 2	<b>Sample(s) to be Used for Laboratory QC</b> Use MALP99 for MS	<b>Additional Sampler Signatures</b> Constance Karkle	<b>Chain of Custody Seal Number(s)</b>
---	-----------------------	--	--	--

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 9/30/99 1900	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature) <i>[Signature]</i>	Date / Time	Received for Laboratory by: (Signature) Amanda Blissett	Date / Time 10/1/99	Remarks 0914	Is custody seal intact? <input checked="" type="checkbox"/> Y/N/none

DISTRIBUTION:

Green - Region Copy  
White - Lab Copy for Return to Region

Pink - CLASS Copy  
Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364301

A21-012-14 REV.



United States Environmental Protection Agency  
Contract Laboratory Program

**Inorganic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

Case No.

27436

<b>1. Matrix</b> (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	<b>2. Preservative</b> (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2Cr2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved	<b>2. Region No.</b> I	<b>Sampling Co.</b> Metcalf, Edley	<b>4. Date Shipped</b> 9/30/99	<b>Carrier</b> Fed Ex	<b>6. Date Received -- Received by:</b> 10/1/99 AB Bonnett	
		<b>3. Purpose*</b> <input type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD		<b>Sampler (Name)</b> Derek George	<b>Airbill Number</b> 813808397505	<b>Laboratory Contract Number</b> 68-DS-0169	<b>Unit Price</b> 85.00
		<b>Sampler Signature</b> DGM		<b>5. Ship To</b> Sentinel Inc (256) 534-9800 2800 Bjb Wallace Ave Suite L3 Huntsville AL 35805 ATTN: Beverly Kilgore		<b>7. Transfer to:</b> <b>Date Received</b>	

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases		
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	pH	Conduct						Solids	Water-Miscible Liq.	Water-Imm. Liq.
MALP98	5	4m	G	6	X	X						133931	SSK0901STF	9/30/99	APF89	DS			
MALP99	5	4m	G	6	X	X						133940 133941	SS1001STF	9/28/99	APF90	DS			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	2 of 2	use MALP99 for MS	Constance Lapate	

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
<i>Derek George</i>	9/30/99 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? (Y/N/none)
		<i>Amanda Bonnett</i>	10/1/99 0914		(Y)

DISTRIBUTION:

Green - Region Copy

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Pink - CLASS Copy

Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364302

A21-012-14 REV...

Region I  
Data Review Worksheet

Site Name: Standard Times  
Reference Number: \_\_\_\_\_

**REGION I REVIEW OF INORGANIC  
CONTRACT LABORATORY DATA PACKAGE**

The hardcopied (laboratory name) Sentrac, Inc data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No.	<u>27436</u>	SAS No.	<u>—</u>	Sampling Date (s)	<u>9/28/99</u>
SDG No.	<u>MALP 88</u>	Matrix	<u>Soil</u>	Shipping Date (s)	<u>9/30/99</u>
No. of Samples	<u>12</u>			Date(s) rec'd by lab	<u>10/1/99</u>

Traffic Report Numbers MALP88, MALP89, MALP90, MALP91, MALP92, MALP93,  
MALP94, MALP95, MALP96, MALP97, MALP98, MALP99

Trip Blank No. \_\_\_\_\_

Equipment Blank Number: \_\_\_\_\_

Field Duplicate Numbers: MALP97, MALP98

SOW No. 11004 requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions, EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

- |                                 |                              |
|---------------------------------|------------------------------|
| -Data Completeness              | -Field Duplicates            |
| -Holding Times                  | -Lab Control Sample Results  |
| -Calibrations                   | -Furnace AA results          |
| -Blanks                         | -ICP Serial Dilution Results |
| -ICP Interference Check Results | -Detection Limit Results     |
| -Matrix Spike Recoveries        | -Sample Quantitation         |
| -Laboratory Duplicates          |                              |

Overall Comments: \_\_\_\_\_

**Definitions and Qualifiers:**

- A - Acceptable data
- J - Approximate data due to quality control criteria
- R - Reject data due to quality control criteria
- U - Analyte not detected

Reviewer: \_\_\_\_\_

Sheela Harvey

Date: \_\_\_\_\_

11/30/99

**II. HOLDING TIMES**

Complete table for all samples and circle the analysis date for samples not within criteria.

SAMPLE ID	DATE SAMPLED	HG/CN	CYANIDE	OTHERS	pH	ACTION
		ANALYSIS DATE	ANALYSIS DATE	ANALYSIS DATE		
MAZP88	9/28/99	10/8/99	10/6/99	10/6/99		
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99	↓	↓	↓	↓		10/6 + 10/8/99

METALS 180 DAYS FROM SAMPLE COLLECTION  
 MERCURY 28 DAYS FROM SAMPLE COLLECTION  
 CYANIDE 14 DAYS FROM SAMPLE COLLECTION

**ACTION:** *all criteria met*

1. If holding times are exceeded, and/or pH is >2 for metals and mercury or < 12 for cyanide, all positive results are estimated (J) and all non-detects are estimated (U).
2. If holding times are grossly exceeded, the reviewer may determine that non-detects are unusable (R).



**IV A. BLANK ANALYSIS RESULTS** (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

Matrix: soil  
~~Soil~~ (SW)

<u>DATE:</u>	<u>ICB/CCB#</u>	<u>PREP BL</u>	<u>ANALYTE</u>	<u>CONC UNITS</u>
P	B		Ba	1.1 ug/l
			Be	0.2 ug/l
			Bd	0.4 ug/l
			Cr	0.4 ug/l
			Co	0.6 ug/l
			Pb	2.2 ug/l
			K	15.6 ug/l
			Se	2.0 ug/l
			Ag	0.4 ug/l
			Pb	1.2 ug/l

2. Equipment/Trip Blanks

<u>DATE:</u>	<u>EQUIP BL #</u>	<u>ANALYTE</u>	<u>CONC UNITS</u>

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

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IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

Matrix: Soil

DATE	ICB/CCB	PREP BL	ANALYTE	CONC UNITS
	2.1, 2.2, 2.0		Ba	
		D.1	Bc	
	0.6	D.3	Cr	
	-0.1, -0.1, -0.1		Hg	
	0.9		Ni	
	10.0 9.0 8.8		K	
	2.0		Se	
	0.7 <del>0.7</del> 0.4		Ag	
	0.8		Vn	
	-1.1 -1.7 -1.6		Cd	

2. Equipment Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC UNITS

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

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**IV A. BLANK ANALYSIS RESULTS** (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

Matrix: Soil

<u>DATE</u>	<u>ICB/CCB#</u>	<u>PREP BL</u>	<u>ANALYTE</u>	<u>CONC UNITS</u>
			Al	48.7 ug/l
			Ba	2.6
			Be	0.1
			Cr	0.3
			Co	0.9
			Mg	52.4
			K	9.6
			Si	2.0
			As	0.5
			Vn	0.9 ✓

2. Equipment Trip Blanks

<u>DATE</u>	<u>EQUIP BL #</u>	<u>ANALYTE</u>	<u>CONC UNITS</u>

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

\_\_\_\_\_

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**IV A. BLANK ANALYSIS RESULTS** (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

Matrix: Soil

<u>DATE</u>	<u>ICB/CCB#</u>	<u>PREP BL</u> mg/kg	<u>ANALYTE</u>	<u>CONC UNITS</u>
			Ag	0.08
			Cd	0.131

2. Equipment Trip Blanks

<u>DATE</u>	<u>EQUIP BL #</u>	<u>ANALYTE</u>	<u>CONC UNITS</u>

3. Frequency Requirements

- A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No
- B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**IV B. BLANK ANALYSIS RESULTS (Section 4)**

**4. Blank Actions**

The Action Level for any analyte is equal to 5X the highest concentration of that analyte found in any blank. (Use 5X the absolute value for any negative blank results). The Action Level for samples which have been concentrated or diluted should be multiplied by the concentration/dilution factor. No positive result should be reported unless the concentration of the analyte in the sample exceeds the Action Level (AL) for that analyte. Specific actions are as follows:

1. When the concentration is greater than the DL, but less than the Action Level, report the sample concentration detected with a "U".
2. When the sample concentration is greater than the Action Level, report the sample concentration unqualified.

Matrix: <u>Soil</u>			Matrix: <u>Soil</u>		
ELEMENT	MAX. CONC. UNITS	AL UNITS	ELEMENT	MAX. CONC. UNITS	AL UNITS
Ba	2.6 ug/l	13.0 ug/l	CN	-1.7 ug/l	-8.5 ug/l
Be	0.2 ug/l	1.0 ug/l	Al	48.7 ug/l	243.5 ug/l
Cd	0.4 ug/l	2.0 ug/l	Mg	52.4 ug/l	262.0 ug/l
Cr	0.6 ug/l	3.0 ug/l			
Co	0.7 ug/l	3.5 ug/l			
Pb	2.2 ug/l	11.0 ug/l			
K	15.6 ug/l	78.0 ug/l			
Se	2.0 ug/l	10.0 ug/l			
Ag	0.7 ug/l	3.5 ug/l			
Hg	-0.1 ug/l	-0.5 ug/l			
Ni	0.4 ug/l	4.5 ug/l			
Vn	0.9 ug/l	4.5 ug/l			

NOTE: Blanks analyzed during a soil case must be converted to mg/kg in order to compare them with the sample results.

$$\text{conc. in ug/l} \times \frac{\text{Volume diluted to (200ml)}}{\text{Weight digested (1gram)}} \times \frac{1\text{L}}{1000\text{ml}} \times \frac{1000\text{g}}{1\text{kg}} \times \frac{1\text{mg}}{1000\text{ug}} = \text{mg/kg}$$

Multiplying this result by 5 to arrive at the Action Level gives a final result in mg/kg which can then be compared to sample results

VI. MATRIX SPIKE

TR = MLP99

MATRIX: Soil

Recovery Criteria

List the percent recoveries for analytes which did not meet the required criteria.

- S - amount of spike added
- SSR - spiked sample result
- SR - sample result

ANALYTE	SSR	SR	S	%R	ACTION
Sb	42.4274	0.4574	103.95	41.2	J(+), US(ND)
Pb	14.2703	13.3555	4.16	70.1	J(+), US(ND)

Matrix Spike Actions apply to all samples of the same matrix.

ACTIONS:

1. If the sample concentration exceed the spike concentration by a factor of 4 or more, no action is taken.
2. If any analyte does not meet the %R criteria, follow the actions stated below:

PERCENT RECOVERY

	<u>&lt; 30%</u>	<u>30%-74%</u>	<u>&gt;125%</u>
Positive Sample Results	J	J	J
Non-detected Results	R	UJ	A

2. Frequency Criteria

- A. Was a matrix spike prepared at the required frequency? Yes or No
- B. Was a post digestion spike analyzed for elements that did not meet the required criteria for matrix spike recovery? Yes or No

A separate worksheet should be filled out for each matrix spike pair.

Region I  
Inorganic Data Review Worksheets

**VII. LABORATORY DUPLICATES**

List the concentrations of any analyte not meeting the criteria for duplicate precision. For soil duplicates, calculate the CRDL in mg/kg using the sample weight, volume and percent solids data for the sample. Indicate what criteria was used to evaluate precision by circling either the RPD or CRDL for each element.

Matrix: soil

ELEMENT	CRDL		SAMPLE # <u>WALP99</u> <u>mg/kg</u>	DUPLICATE # <u>WALP99D</u> <u>mg/kg</u>	RPD	ACTION
	WATER <u>ug/L</u>	SOIL <u>mg/kg</u>				
Aluminum	200					
Antimony	60					
Arsenic	10					
Barium	200					
Beryllium	5					
Cadmium	5					
Calcium	5000					
Chromium	10					
Cobalt	50					
Copper	25					
Iron	100					
Lead	5					
Magnesium	5000					
Manganese	15					
Mercury	0.2					
Nickel	40					
Potassium	5000					
Selenium	5					
Silver	10					
Sodium	5000	<u>1,000</u>	<u>116.9439</u>	<u>75.8212</u>		<u>NA</u>
Thallium	10					
Vanadium	50					
Zinc	20					
Cyanide	10					

Laboratory duplicate actions should be applied to all other samples of the same matrix type.

**ACTION:**

1. Estimate (J) positive results for elements which have an RPD > 20% for waters and > 35% for soils.
2. If sample results are less than 5X the CRDL, estimate (J) positive results for elements whose absolute difference is > CRDL (2X CRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

Region I  
Inorganic Data Review Worksheets

**VIII. FIELD DUPLICATES**

List the concentrations of all analytes in the field duplicate pair. For soil duplicates, calculate the CRDL in mg/kg using the sample weight, volume and percent solids data for the sample. Indicate what criteria was used to evaluate precision by circling either the RPD or CRDL for each element.

Matrix: Soil

ELEMENT	CRDL		SAMPLE #	DUPLICATE #	RPD	ACTION
	WATER ug/L	SOIL mg/kg	MALP97 mg/kg	MALP98 mg/kg		
Aluminum	200	40	3390	3070	(9.9)	NA
Antimony	60					
Arsenic	10	2	1.7	1.6		NA
Barium	200	40	8.1	7.1		NA
Beryllium	5	1	0.04	0.06		NA
Cadmium	5					
Calcium	5000	1,000	556	497		NA
Chromium	10	(2)	7.1	6.2		NA
Cobalt	50	10	1.8	1.5		NA
Copper	25	(5)	7.3	5.2		NA
Iron	100	20	6370	5600	(112.9)	NA
Lead	5	(1)	5.4	5.1		NA
Magnesium	5000	(1000)	1260	1100		NA
Manganese	15	(3)	65.9	61.4	(7.1)	NA
Mercury	0.2					
Nickel	40	8	3.8	3.2		NA
Potassium	5000	1000	556	442		NA
Selenium	5	1	0.55			NA
Silver	10	2	0.13	0.09		NA
Sodium	5000	1,000	132	98.2		NA
Thallium	10					
Vanadium	50	10	10.1	8.5		NA
Zinc	20	(4)	14.4	13.1		NA
Cyanide	10	2	0.29			NA

Field duplicate actions should be applied to all other samples of the same matrix type.

**ACTION:**

1. Estimate (J) positive results for elements which have an RPD > 30% for waters and > 50% for soils.
2. If sample results are less than 5X the CRDL, estimate (J) positive results for analytes whose absolute difference is > 2X CRDL (4X CRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

INORGANIC ANALYSIS DATA SHEET

MALP88

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25275S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 90.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5110			P
7440-36-0	Antimony	0.48	U	J	P
7440-38-2	Arsenic	1.3	<del>B</del>		P
7440-39-3	Barium	18.3	<del>B</del>		P
7440-41-7	Beryllium	0.02	<del>B</del>	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	559	<del>B</del>		P
7440-47-3	Chromium	4.4		Z	P
7440-48-4	Cobalt	1.5	<del>B</del>		P
7440-50-8	Copper	4.7	<del>B</del>		P
7439-89-6	Iron	5770			P
7439-92-1	Lead	30.0	J	<del>NE</del>	P
7439-95-4	Magnesium	834	Z	Z	P
7439-96-5	Manganese	91.8			P
7439-97-6	Mercury	0.06	U	J	CV
7440-02-0	Nickel	2.8	<del>B</del>		P
7440-09-7	Potassium	253	<del>B</del>	Z	P
7782-49-2	Selenium	0.39	U		P
7440-22-4	Silver	0.13	<del>B</del>	U	P
7440-23-5	Sodium	94.0	<del>B</del>		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	8.6	<del>B</del>		P
7440-66-6	Zinc	20.0			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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2

INORGANIC ANALYSIS DATA SHEET

MALP89

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25276S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 85.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3860			P
7440-36-0	Antimony	0.51	U	X	P
7440-38-2	Arsenic	14.3			P
7440-39-3	Barium	55.1			P
7440-41-7	Beryllium	0.12	Z	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	737	Z		P
7440-47-3	Chromium	4.5		Z	P
7440-48-4	Cobalt	2.7	Z		P
7440-50-8	Copper	16.5			P
7439-89-6	Iron	9730			P
7439-92-1	Lead	105	J	NE	P
7439-95-4	Magnesium	929	Z	Z	P
7439-96-5	Manganese	65.9			P
7439-97-6	Mercury	0.05	U	J	CV
7440-02-0	Nickel	5.1	Z		P
7440-09-7	Potassium	985	Z	Z	P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.23	Z	U	P
7440-23-5	Sodium	255	Z		P
7440-28-0	Thallium	0.47	U		P
7440-62-2	Vanadium	9.2	Z		P
7440-66-6	Zinc	58.9			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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3

INORGANIC ANALYSIS DATA SHEET

MALP90

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25277S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 90.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3720			P
7440-36-0	Antimony	21.4	J	X	P
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	165			P
7440-41-7	Beryllium	0.11	JU		P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	4900			P
7440-47-3	Chromium	9.1		Z	P
7440-48-4	Cobalt	3.5	Z		P
7440-50-8	Copper	47.7			P
7439-89-6	Iron	17400			P
7439-92-1	Lead	3640	J	NE	P
7439-95-4	Magnesium	1290		Z	P
7439-96-5	Manganese	141			P
7439-97-6	Mercury	0.07	B	J	CV
7440-02-0	Nickel	7.6	B		P
7440-09-7	Potassium	324	B	Z	P
7782-49-2	Selenium	0.96	JU		P
7440-22-4	Silver	0.82	B		P
7440-23-5	Sodium	129	B		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	11.7			P
7440-66-6	Zinc	327			P
	Cyanide	0.21	JU		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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4

INORGANIC ANALYSIS DATA SHEET

MALP91

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25278S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 81.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3950			P
7440-36-0	Antimony	0.54	U	N	P
7440-38-2	Arsenic	14.7			P
7440-39-3	Barium	125			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.34	B	U	P
7440-70-2	Calcium	6110			P
7440-47-3	Chromium	5.7		B	P
7440-48-4	Cobalt	3.5	B		P
7440-50-8	Copper	57.5			P
7439-89-6	Iron	10700			P
7439-92-1	Lead	379	J	NE	P
7439-95-4	Magnesium	1880		E	P
7439-96-5	Manganese	122			P
7439-97-6	Mercury	0.27	J		CV
7440-02-0	Nickel	8.0	B		P
7440-09-7	Potassium	480	B	B	P
7782-49-2	Selenium	2.8			P
7440-22-4	Silver	0.15	B	U	P
7440-23-5	Sodium	305	B		P
7440-28-0	Thallium	0.49	U		P
7440-62-2	Vanadium	14.9			P
7440-66-6	Zinc	142			P
	Cyanide	0.27	B	U	CA

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MALP92

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25279S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 88.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3680			P
7440-36-0	Antimony	0.49	U	N	P
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	86.8			P
7440-41-7	Beryllium	0.11	U		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1400			P
7440-47-3	Chromium	9.1		E	P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	32.8			P
7439-89-6	Iron	16600			P
7439-92-1	Lead	151	U	NE	P
7439-95-4	Magnesium	1280		E	P
7439-96-5	Manganese	121			P
7439-97-6	Mercury	0.41	U		CV
7440-02-0	Nickel	8.0	B		P
7440-09-7	Potassium	433	B	E	P
7782-49-2	Selenium	1.1	U		P
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	132	B		P
7440-28-0	Thallium	0.45	U		P
7440-62-2	Vanadium	22.8			P
7440-66-6	Zinc	85.1			P
	Cyanide	0.10	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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6

INORGANIC ANALYSIS DATA SHEET

MALP93

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25280S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 84.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3880			P
7440-36-0	Antimony	0.52	U	X	P
7440-38-2	Arsenic	6.6			P
7440-39-3	Barium	28.9	B		P
7440-41-7	Beryllium	0.09	B	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1500			P
7440-47-3	Chromium	8.5		E	P
7440-48-4	Cobalt	2.3	B		P
7440-50-8	Copper	28.5			P
7439-89-6	Iron	12400			P
7439-92-1	Lead	99.7	J	NE	P
7439-95-4	Magnesium	943	B	E	P
7439-96-5	Manganese	85.7			P
7439-97-6	Mercury	0.08	B	U	CV
7440-02-0	Nickel	5.5	B		P
7440-09-7	Potassium	308	B	E	P
7782-49-2	Selenium	1.1	B	U	P
7440-22-4	Silver	0.23	B	U	P
7440-23-5	Sodium	114	B		P
7440-28-0	Thallium	0.47	U		P
7440-62-2	Vanadium	11.5	B		P
7440-66-6	Zinc	55.8			P
	Cyanide	0.13	B	U	CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM.

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

MALP94

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25281S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 91.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3940			P
7440-36-0	Antimony	0.47	U	X	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	54.2			P
7440-41-7	Beryllium	0.09	B	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1180			P
7440-47-3	Chromium	10.6		E	P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	20.8			P
7439-89-6	Iron	6130			P
7439-92-1	Lead	134	U	NE	P
7439-95-4	Magnesium	1460		E	P
7439-96-5	Manganese	76.5			P
7439-97-6	Mercury	0.09	B	U	CV
7440-02-0	Nickel	6.8	B		P
7440-09-7	Potassium	466	B	E	P
7782-49-2	Selenium	0.42	B	U	P
7440-22-4	Silver	0.17	B	U	P
7440-23-5	Sodium	94.9	B		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	10.6	B		P
7440-66-6	Zinc	69.5			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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8

INORGANIC ANALYSIS DATA SHEET

MALP95

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25282S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 89.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3650			P
7440-36-0	Antimony	0.49	U	<del>X</del>	P
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	37.5	B		P
7440-41-7	Beryllium	0.11	<del>B</del>	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1070	<del>B</del>		P
7440-47-3	Chromium	6.4		E	P
7440-48-4	Cobalt	2.2	<del>B</del>		P
7440-50-8	Copper	15.5			P
7439-89-6	Iron	6290			P
7439-92-1	Lead	66.4	U	<del>NE</del>	P
7439-95-4	Magnesium	1190		E	P
7439-96-5	Manganese	84.5			P
7439-97-6	Mercury	0.05	<del>B</del>	U	CV
7440-02-0	Nickel	4.8	<del>B</del>		P
7440-09-7	Potassium	433	<del>B</del>	E	P
7782-49-2	Selenium	0.49	<del>B</del>	U	P
7440-22-4	Silver	0.13	<del>B</del>	U	P
7440-23-5	Sodium	122	<del>B</del>		P
7440-28-0	Thallium	0.44	U		P
7440-62-2	Vanadium	11.1			P
7440-66-6	Zinc	39.3			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MALP96

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25283S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 96.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2620			P
7440-36-0	Antimony	0.45	U	X	P
7440-38-2	Arsenic	1.3	B		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	0.06	B	U	P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	468	B		P
7440-47-3	Chromium	4.3		B	P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	4500			P
7439-92-1	Lead	5.0	J	NE	P
7439-95-4	Magnesium	891	B	B	P
7439-96-5	Manganese	58.2			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	251	B	B	P
7782-49-2	Selenium	0.42	B	U	P
7440-22-4	Silver	0.16	B	U	P
7440-23-5	Sodium	95.9	B		P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	5.8	B		P
7440-66-6	Zinc	11.9			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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10

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP97

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25284S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 90.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3390			P
7440-36-0	Antimony	0.49	U	X	P
7440-38-2	Arsenic	1.7	B		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	0.04	B	0	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	556	B		P
7440-47-3	Chromium	7.1		X	P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	7.3			P
7439-89-6	Iron	6370			P
7439-92-1	Lead	5.4	J	NE	P
7439-95-4	Magnesium	1260		H	P
7439-96-5	Manganese	65.9			P
7439-97-6	Mercury	0.06	U	J	CV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	556	B		P
7782-49-2	Selenium	0.55	B	X	P
7440-22-4	Silver	0.13	B	U	P
7440-23-5	Sodium	132	B		P
7440-28-0	Thallium	0.44	U		P
7440-62-2	Vanadium	10.1	B		P
7440-66-6	Zinc	14.4			P
	Cyanide	0.29	B	U	CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MALP98

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 252858

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 91.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3070	-		P
7440-36-0	Antimony	0.47	U	J	P
7440-38-2	Arsenic	1.6	B		P
7440-39-3	Barium	7.1	B		P
7440-41-7	Beryllium	0.06	B	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	497	B		P
7440-47-3	Chromium	6.2	B	A	P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	5600			P
7439-92-1	Lead	5.1	J	NE	P
7439-95-4	Magnesium	1100		A	P
7439-96-5	Manganese	61.4			P
7439-97-6	Mercury	0.05	U	J	CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	442	B	A	P
7782-49-2	Selenium	0.39	U		P
7440-22-4	Silver	0.09	B	U	P
7440-23-5	Sodium	98.2	B		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	8.5	B		P
7440-66-6	Zinc	13.1			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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12

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP99

Lab Name: SENTINEL INC.

Contract: 68-D5-0169

Lab Code: SENTIN

Case No.: 27436

SAS No.:

SDG No.: MALP88

Matrix (soil/water): SOIL

Lab Sample ID: 25286S

Level (low/med): LOW

Date Received: 10/01/99

% Solids: 96.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2020			P
7440-36-0	Antimony	0.46	U	X	P
7440-38-2	Arsenic	1.0	B		P
7440-39-3	Barium	10.4	B		P
7440-41-7	Beryllium	0.04	B	U	P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	966	B		P
7440-47-3	Chromium	3.8		E	P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	6.7			P
7439-89-6	Iron	3400			P
7439-92-1	Lead	13.4	B	NE	P
7439-95-4	Magnesium	858	B	E	P
7439-96-5	Manganese	51.8			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.0	B		P
7440-09-7	Potassium	256	B	E	P
7782-49-2	Selenium	0.39	B	U	P
7440-22-4	Silver	0.08	U		P
7440-23-5	Sodium	117	B		P
7440-28-0	Thallium	0.42	U		P
7440-62-2	Vanadium	4.9	B		P
7440-66-6	Zinc	13.2			P
	Cyanide	0.05	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After:

Artifacts:

Comments:

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F

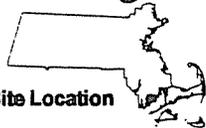
**APPENDIX F. MADEP SITE SCORING MAP**

# MA DEP - Bureau of Waste Site Cleanup

## Site Scoring Map: 500 feet & 0.5 Mile Radii

**SITE NAME:**  
**Standard Times Field**  
**South Front Street**  
**Between Gifford and Wright St.**  
**New Bedford**  
**413716n 705504ew**

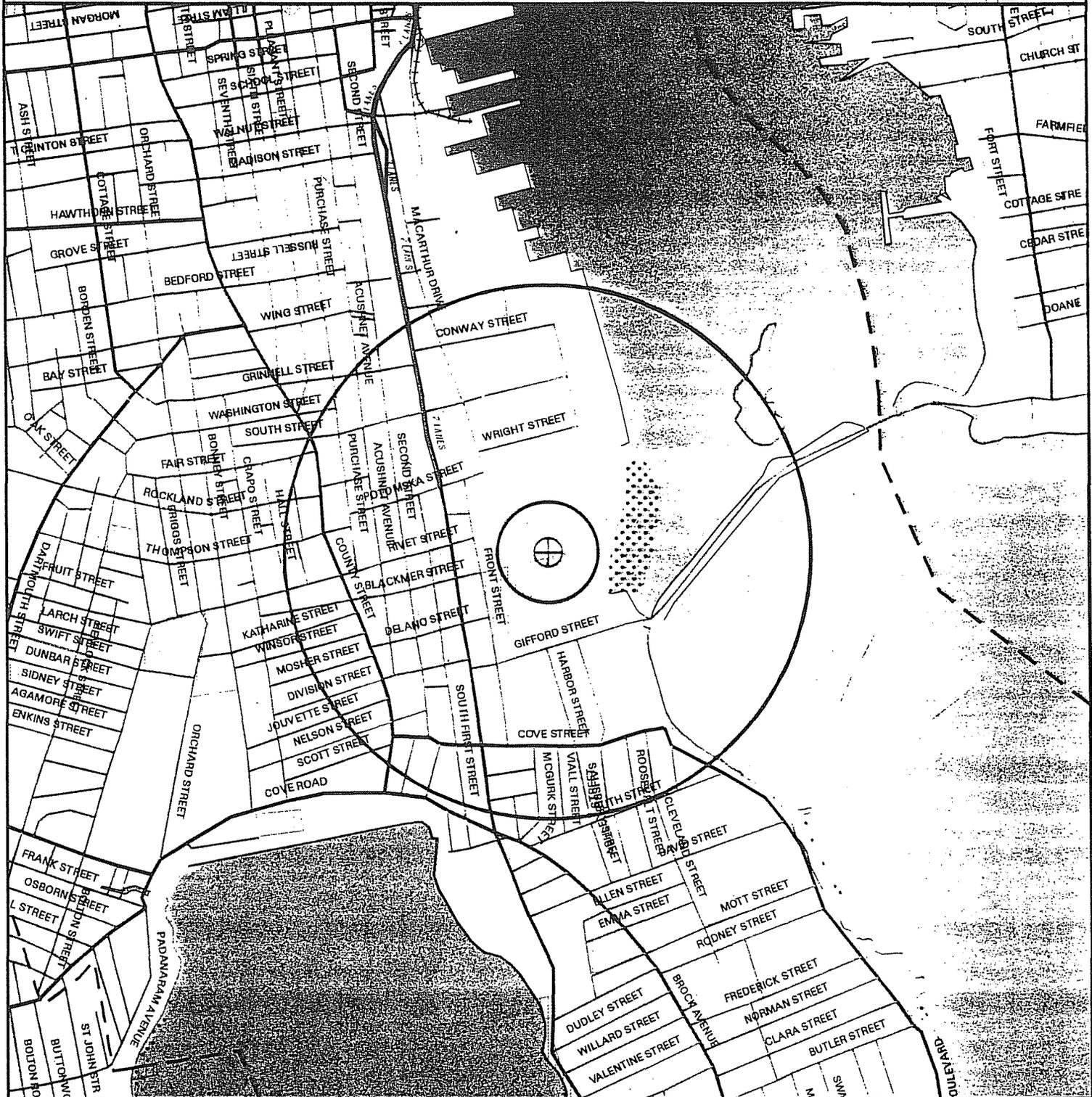
Site Location



The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.

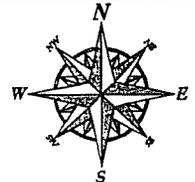


Massachusetts Geographic Information System



Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail  
 Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct  
 Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams  
 Potentially Productive Aquifers: Medium, High Yield  
 Non-Potential Drinking Water Source Area: Medium, High Yield

EPA Designated Sole Source Aquifer  
 Public Water Supplies: Ground, Surface, Non Community  
 Approved Zone2; IWPA; Surface Water Supply Zone A  
 Hydrography: Water Features, Public Surface Water Supply  
 Wetlands: Fresh, Salt, NHESP Wetlands Habitat  
 Protected Open Space; ACEC  
 DEP Permitted Solid Waste Facilities; Certified Vernal Pools

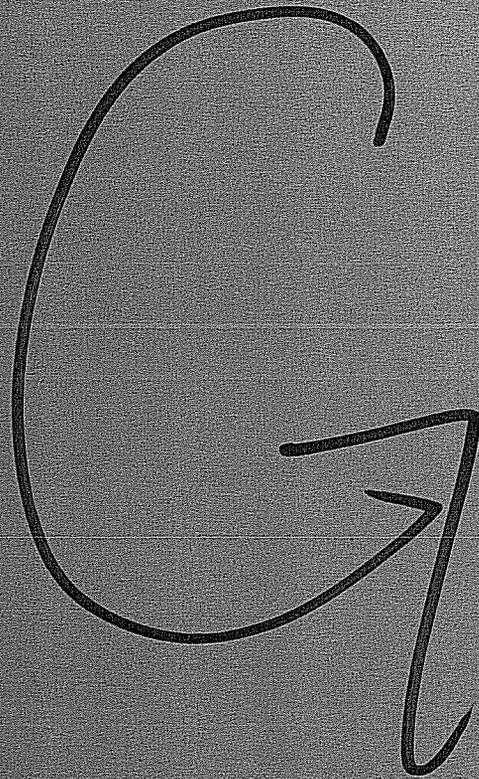


SCALE 1:15000

0 1/2 KILOMETERS 1

MILES 1/2

July 26, 1999



**APPENDIX G. STATEMENT OF LIMITATIONS**



## STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

1. The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.
2. Metcalf & Eddy (M&E) derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.
3. In preparing this report, M&E has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, M&E has not attempted to verify the accuracy or completeness of any such information.
4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.
5. Because of the limitations stated above, the findings, observations, and conclusions expressed by M&E in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings observations, and conclusions are based solely upon site conditions in existence at the time of investigation.
6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.