Report

Phase I and Phase II Environmental Site Assessment (ESA)

29 Brook Street
New Bedford, MA

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EXECUTIVE SUMMARY

Weston & Sampson performed a Phase I and Phase II Environmental Site Assessment (ESA) of a parcel of land located 29 Brook Street in New Bedford, Massachusetts (the "Site"). The major findings of the Phase I and Phase II ESA are as follows:

Phase I ESA

- The "Site" consists of an undeveloped 0.79 acre parcel of land. Historically, the Site was occupied by a brewery from the early 1900's to 1975, a coal company in the 1930's, and an auto body shop in 1979.

- One 275-gallon # 2 fuel oil UST was historically located on the northern portion of the Site. Information regarding the assessment and closure of this UST was not identified.

- A previous investigation performed at the Site identified fill soil impacted with petroleum hydrocarbons, Polynuclear Aromatic Hydrocarbons (PAHs), and Volatile Organic Compounds (VOCs) above Massachusetts Department of Environmental Protection (DEP) Reportable Concentration (RC) S-1 standards. Analysis of a groundwater sample identified a concentration of Lead above the current applicable RCGW-2 standard.

The Phase II ESA was performed to assess potential impacts from the historic coal company, auto body shop, UST, previously identified impacted soil and groundwater, and fill with debris.

Phase II ESA

- The Phase II included the excavation of 10 test pits, installation of 8 soil borings/monitoring wells, soil/groundwater sampling, and asbestos analysis of debris.

- Fill material with debris (largely brick and concrete) was identified throughout the Site.

- Analysis of the soil samples identified concentrations of petroleum hydrocarbons, PAHs, and metals above RCS-1 standards. Analysis of groundwater samples detected a concentration of Napthalene slightly above the RCGW-2 standard in one sample. Two samples of waste building materials (tar paper) tested positive for asbestos.

Findings

The Phase I and II ESA identified the following recognized environmental condition (REC):

- Impacted soil and groundwater at the Site above applicable DEP reportable standards.

As detailed further in this report, the impacted soil and groundwater identified at the Site is being be managed by the City in accordance Massachusetts Contingency Plan (MCP) 310 CMR 40.000.

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1.0 INTRODUCTION

Weston & Sampson was contracted by the City of New Bedford to perform a Phase I and Phase II Environmental Site Assessment (ESA) of a 0.79 acre vacant parcel of land located 29 Brook Street in New Bedford, Massachusetts (the "Site"). Please see Figure 1 and 2 for a depiction of the Site and surrounding properties.

The ESA was performed in August and September 2010 in general accordance with the Phase I ESA Process (Standard Practice E 1527-05), as developed by the American Society for Testing and Materials (ASTM), the Oil and Hazardous Material Release Prevention and Response Act, Massachusetts General Law Chapter 21E (MGL c. 21E) and in general accordance with EPA's All Appropriate Inquiry (AAI) standard. The ESA included an environmental database search, review of local, state, and federal regulatory agency files, and a limited reconnaissance of the Site and vicinity for potential off-Site contamination sources. A user questionnaire is included in Appendix A, a regulatory database search in Appendix B, municipal records in Appendix C, historical information in Appendix D, and Site photos in Appendix E.

Based on the findings of the Phase I, a Phase II ESA was performed at the Site in October and November 2010.

1.1 Purpose

The purpose of the ESA was to evaluate business environmental risk, defined as a risk which can have an impact on the business associated with the current or planned use of a parcel of commercial real estate.

This assessment utilized the general quality principals and practices towards the preparation of this report that incorporated suggested methods under the ASTM. The term "recognized environmental condition" (REC) referenced in the ASTM refers to "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property." The ASTM definition does not include "de minimis" conditions, which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate government agencies. Therefore, de minimis conditions are not considered RECs.

The Phase I was performed in accordance with the limitations and exceptions identified in Section 11.0 of this report and included the following tasks:

- Review of an environmental database search report for Sites identified on databases including National Priorities List (NPL); Comprehensive Environmental Response Compensation and Liability Act (CERCLA); Resource Conservation and Recovery Act (RCRA); emergency response notification sites; and state spill, release, and landfill sites.

- Review of files at the City of New Bedford Assessor's Office, Inspectional Services Department, Fire Department, Health Department, and Public Library.

- Site reconnaissance to observe conditions exposed at ground surface for evidence of previous and current property usage, and indications of environmental impact (e.g., stressed vegetation, staining, etc.).

- Curbside reconnaissance of surrounding properties to identify potential off-Site sources of contamination.

The Phase II ESA was performed to assess potential concerns identified in the Phase I and included the following tasks:

- Ten (10) test pits (WSTP-1 through WSTP-10) were excavated at the Site utilizing a track mounted excavator.

- Eight (8) soil borings (WS-1 through WS-8) were advanced at the Site utilizing hollow stem auger drilling techniques. Each boring was completed as a groundwater monitoring well (MW-1 through MW-8).

- Soil samples collected from the test pits and borings were field screened with a PID.

- Soil samples selected from the test pits and/or borings and groundwater samples collected from the monitoring wells were analyzed for EPH, PAHs, Volatile Petroleum Hydrocarbons (VPH), VOCs, 8 RCRA Metals, and/or Polychlorinated Biphenyls (PCBs). Potential asbestos containing material samples observed on the test pits were submitted for laboratory analysis of Asbestos.

- A groundwater flow survey was performed.

2.0 SITE DESCRIPTION

2.1 Site Ownership and Location

Site Owner:	City of New Bedford
Site Occupants:	Vacant
Site Location:	29 Brook Street
County:	Bristol County
Parcel ID:	Map 92 Lot 148
Latitude/Longitude:	41° 39' 28" North
	70° 55' 55" West
UTM Coordinates:	339,132 meters East
	4,613,606 meters North
Size:	~0.79 Acres

2.2 Current Use of the Property

The Site is an unoccupied 0.79 acre parcel of vacant land located at 29 Brook Street in New Bedford, Massachusetts.

2.3 Description of Structures, Roads, Other Improvements on the Site

There are no buildings located on the Site and at the time of the initial Site visits, the Site was overgrown with vegetation consisting of weeds and brush. The vegetation was subsequently cleared following the performance of the Phase II. During the Phase I Site visit, Weston & Sampson observed building demolition debris (brick, asphalt, cinder block and asphalt roofing shingles) scattered around the Site. Portions of the former building foundation were observed on the southern and western portions of the Site. Topography of the Site is generally flat. A depression containing demolition debris was observed along the northern portion of the Site and may indicate the location of a former basement.

2.4 Current Uses of Adjoining Properties

The Site is located on the west side of Brook Street directly opposite of the intersection of Brook Street and Holly Street. The Site is located in a residential and commercial area. A commercial building occupied by a food warehouse borders the Site to the north. Brook Street and residential properties border the Site to the east. A vacant lot and a building occupied by an automotive towing business borders the Site to the south. Rail road tracks border the Site to the west.

3.0 USER PROVIDED INFORMATION

A User Questionnaire was completed by Mr. Scott Alfonse, Director of the City of New Bedford Department of Environmental Stewardship. A summary of the information obtained by Mr. Alfonse is provided below. A copy of the completed User Questionnaire is provided in Appendix A. Information in this section was based primarily on the information collected from Mr. Alfonse.

3.1 Environmental Liens

The user reported that he is unaware of any environmental cleanup liens against the property (the Site) that are filed or recorded under federal, tribal, state or local law.

3.2 Activity and Use Limitations

The user reported that he is unaware of any Activity and Use Limitations on the property.

3.3 Specialized Knowledge

The user reported no specialized knowledge related to the property or nearby properties other than knowledge of the previous environmental investigations detailed in Section 5.3 of this report.

3.4 Commonly Known or Reasonable Ascertainable Information

The user reported that he is aware of no commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases other than knowledge of the previous environmental investigations detailed in Section 5.3 of this report.

3.5 Valuation Reduction for Environmental Issues

This task was beyond the scope of the Phase I.

3.6 Degree of Obviousness of Contamination

The user indicated that he has no knowledge of any obvious indicators that point to the presence or likely presence of contamination at the property other than knowledge of the previous environmental investigations detailed in Section 5.3 of this report.

4.0 DATABASE SEARCH REPORT AND MUNICIPAL RECORDS

At the City's request, Weston & Sampson contracted Common Sense Environmental, Inc. of New Bedford, Massachusetts to perform a regulatory database search (based on ASTM standards) of applicable State and Federal environmental databases and to conduct local research for the ESA.

4.1 Standard Environmental Record Sources

Common Sense Environmental obtained a regulatory database report from First Search Technology Corporation. A complete database report is included as Appendix B. A summary of the database information is provided below.

EDR REGULATORY DATABASE SEARCH SUMMARY			
Database	**Radius**	**Target Property**	**Surrounding Facilities**
National Priorities List (NPL)/De-listed NPL	1 Mile	-	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Sites	½ Mile	-	0
CERCLIS No Further Remedial Action Planned (NFRAP) Sites	½ Mile	-	2
Corrective Action Report (CORRACTS)	1 Mile	-	0
Resource Conservation and Recovery Act (RCRA) Corrective Action Treatment, Storage, and Disposal (TSD) Facilities	½ Mile	-	0
Federal Brownfields	½ Mile	X	9
RCRA Waste Quantity Generators	¼ Mile	-	6
Emergency Response Notification System (ERNS) Sites	.12 Mile	-	4
State Hazardous Waste Sites	1 Mile	-	23
State Spills 90	.12 Mile	-	10
Solid Waste Facilities/Landfills (SWF/LF)	½ Mile	-	1
Leaking Underground Storage Tank (LUST)	½ Mile	-	9
Underground Storage Tank (UST)/ Above Ground Storage Tank (AST) Sites	¼ Mile	-	9
Institutional Control	½ Mile	-	3

In general terms, surrounding properties identified in the above table were evaluated to determine if they might pose a risk to the Site based on characteristics such as proximity, elevation, type of contaminant, and regulatory status. Whether or not an off-Site source has the potential to impact the Site depends on the distance of the source from the Site, its direction from the Site, relative to groundwater flow direction, magnitude of release, contaminant type, and

location. Based on topography, the assumed direction of groundwater flow at the Site is to the southeast. This general flow direction was also confirmed via a groundwater flow survey as detailed in Section 9.0.

4.1.1 On-Site Listings from Database Search

The Site was listed as a Federal Brownfield site in the data base report. This listing is most likely due to the Site's inclusion for assessment under recently obtained EPA Brownfield assessment funding by the City of New Bedford. The Site was not listed in any other database searched by First Search.

4.1.2 Off-Site Listings from EDR Database Search

As indicated in the table above, a review of regulatory records identified 2 CERLCIS sites, 9 Federal Brownfield sites, 6 RCRA sites, 4 ERNS sites, 23 SHWS sites, 10 State Spill sites, 1 SWL/LF site, 9 LUST sites, 9 UST/AST sites, and 3 Institutional Control sites within ASTM-standard search distances of the Site. Of these, only 8 facilities are located within 800 feet of the subject Site. Based on distance, regulatory status and assumed groundwater flow direction, the facilities located greater than 800 feet from the Site are not considered a concern. The facilities located within 800 feet of the Site are discussed in the table below.

OFF-SITE LISTINGS FROM EDR DATABASE SEARCH		
Facility	**Distance/Direction**	**Regulatory Status**
Dacosta and Sons Sunoco, 379 Sawyer Street	500 feet Southwest / Crossgradient	UST and SHWS facility. RAO Statement submitted in support of regulatory closure.
Jean and Sawyer Street	500 feet Southeast / Crossgradient	SPILL listing. 1 gallon of oil from a car.
Boiler Room Area 1129 County Street	500 feet Southwest / Crossgradient	SHWS facility. RAO Statement submitted in support of regulatory closure.
79 Brook Street	600 feet Northeast / Crossgradient	ERNS, Institutional Controls, UST, LUST, SPILLS, and SHWS facility. RAO Statement submitted in support of regulatory closure.
Shell Service Station 129 Ashley Blvd.	600 feet Southeast / Crossgradient	UST, LUST, SPILLS, and SHWS facility. RAO Statement submitted in support of regulatory closure.
Interstate Brands 2185 Purchase Street	600 feet Southwest / Crossgradient	RCRA facility. No listed releases.
Mill Building Warehouse 419 Sawyer Street	600 feet Southwest / Crossgradient	SPILLs facility. RAO Statement submitted in support of regulatory closure.
Continental Baking Co. 2185 Purchase Street	600 feet Southwest / Crossgradient	UST facility. Tanks removed no releases listed.

Based on factors such as assumed groundwater flow direction in the Site vicinity (southeast), and/or regulatory status (i.e., no reported violations, regulatory closure, etc.), the above facilities to have a low potential to adversely impact the Site.

4.2 Municipal Records

As part of this ESA, file reviews were conducted at City of New Bedford municipal offices by Common Sense Environmental. Files were reviewed for the street address of 29 Brook Street. Significant information pertaining to the Site are included in Appendix C and discussed below.

4.2.1 Assessor's Office

The assessor's office provided a field card, an assessor map, and property parcel information for the Site. The assessor's records indicate that the Site parcel occupies 0.79 acres and is owned by the City of New Bedford.

4.2.2 Fire Department

City of New Bedford Fire Department records for the Site indicate that two 15,000-gallon # 6 fuel oil USTs were installed at the Site on July 14, 1949 and removed on November 2, 2000. Please See Section 5.3 for further details regarding these tank removals.

The file for the Site also included a letter dated May 10, 1977 indicating that a 275-gallon fuel oil UST that was previously located beneath the boiler room of the Site building was emptied and that its contents were purged. Additional information regarding the assessment and closure of this UST was not identified. Therefore this former UST was considered a potential REC to the Phase I and was assessed as part of the Phase II ESA as detailed in Section 9.0.

Records also indicate that two 2,000-pound ASTs, used to store ammonia were previously located at the Site. A letter, dated May 10, 1977, indicated that the two ASTs had been emptied and that their contents had been purged. There was no indication of leaks or spills associated with AST.

4.2.3 Inspectional Services Department

The City of New Bedford Inspectional Services Department had the following building permits on file for the Site:

City of New Bedford Inspectional Services Department –Permits			
Date	**Permit No.**	**Proposed Work**	**Building Use**
1902	Permit No. 175-02	Not indicated.	Stable.
1907	Permit No. 388-07	Not indicated.	Ice plant.
1930	Permit No. 53-30	New boiler.	Not indicated.
1933	Permit No. 173-33	Building alterations.	Brewery.
1935	Permit No. 82-35	Building alterations.	Brewery.
1936	Permit No. 290-36	Building addition.	Brewery/bottling plant.
1937	Permit No. 168-37	Building addition.	Not indicated.
1939	Permit No. 191-39	Construction of storage building.	Storage building.
1942	Permit No. 109-42	Construction of a roof house.	Not indicated.
1943	Permit No. 406-43	Not indicated.	Grain receiving building was present on Site.
1944	Permit No. 222-44	Not indicated.	Cooling tower was present at the Site.
1945	Permit No. 75-45	Structural alterations to cellar.	Not indicated.
1946	Permit No. 242-46	Building addition.	Brewery.
1949	Permit No. 897-49	Cooling tank foundation.	Not indicated.
1979	No Permit Number	Two survey letters regarding fire damage.	Not indicated.
1979	Permit No. 386-79	Building demolition.	Not indicated.
1992	Permit No. 40-92	Garage door.	Not indicated.
1999	Permit No. 269-99	Not indicated.	Brewery.

4.2.4 Department of Health / Environmental Division

The Department of Health Department had no records on file for the Site relative to any historic septic tanks, water quality issues, or environmental releases.

4.3 Site and Area History

4.3.1 Prior Ownership and Usage

The City of New Bedford Assessor's Department and Bristol County Registry of Deeds were visited to review historical ownership information for the Site. The information was reviewed for the purposes of land use determination. A summary of the information obtained during this review is provided in the table below.

Prior Ownership Records	
Date	**Owner**
1906-1960	Dawson Brewery
1969	Rhinegold Breweries and Jacob Breweries
1975	Jacob Brewery
1977	C. Schmidt & Sons Inc.
1979	Robert King and Robert Hammond (Bittenhouse Organization)
1979	Andre A. Fournier
1988	Madison Finance Corp
1991	Nicholas A. Masabny and Leona T. Masabny
1994	Melvin Drapkin and David Solomon for Madison Finance Corp.
1999	City of New Bedford

No environmental liens or Activity and Use Limitations (AULs) were identified. Previous owners of the site were not available to be interviewed.

4.3.1 Sanborn® Maps

Weston & Sampson obtained Sanborn® Fire Insurance Maps from EDR in order to gain knowledge of the Site and area history. Sanborn® Fire Insurance Maps were available for the years 1906, 1924, 1950, 1990, 1992, 1993, and 1995. Copies of the Sanborn® Fire Insurance Map are provided in Appendix D. The following table summarizes information obtained from the atlas maps:

Sanborn Atlas Maps			
Year	**Summary On-Site**	**Summary Off-Site**	**Concerns**
1906	The northern portion of the Site is developed with Dawson & Son Brewery building.	Brook Street and a residential property are east of the Site. Rail road tracks are to the west beyond which is a residential dwelling. North and south of the Site is undeveloped land.	None
1924	The Site is shown as in the 1906 atlas map.	An ice plant is depicted north of the Site. Brook Street and multiple residential properties are depicted east of the Site. Undeveloped land is shown to the south. Rail road tracks are located to the west beyond which is a storage building and residential properties.	None
1950	The Site is shown as in the 1924 atlas map with the following exceptions. The brewery building has been expanded to the south and west and occupies most of the Site.	A bottling plant is depicted north of the Site. Brook Street and residential properties are east of the Site. A garage is depicted to the south. Rail road tracks are to the west beyond which is a storage building, a bottling works and residential properties. Northwest of the Site is a storage building labeled as sign painting.	None
1990 through 1995	The Site is shown as in the 1950 atlas map.	The surrounding area is depicted as in the 1950 map.	None

4.3.2 City Directories

Historic city directories for the Site were reviewed at the City of New Bedford Public Library. The following is a summary of the City Directory research.

City Directories			
Year	**Summary On-Site**	**Summary Off-Site**	**Concerns**
1926	Site was not listed.	No properties off concern noted.	None
1930	John Dawson	No properties off concern noted.	None
1931	Pacific Coal Company	No properties off concern noted.	None
1932	Pacific Coal Company	No properties off concern noted.	None
1936	Pacific Coal Company	No properties off concern noted.	None
1937-1960	Dawson Brewery / Mann's Transportation[1]	No properties of concern noted.	None
1971	Forrest Brewing Company	No properties of concern noted.	None
1975	Jacob Ruppert	No properties off concern noted.	None
2000	No Listing	No properties off concern noted.	None

4.3.3 Aerial Photographs

Historical aerial photographs from the years 1975, 1998 and 2005 were reviewed. A summary of the information obtained from the aerial photograph review is provided below.

Aerial Photographs			
Year	**Summary On-Site**	**Summary Off-Site**	**Concerns**
1975 and 1998	The former brewery building is depicted on-Site.	Properties surrounding the Site are development with numerous commercial and residential buildings as they are today.	None
2005	The Site is depicted as undeveloped cleared land.	Properties surrounding the Site are developed as they are today.	None

[1] Although Mann's Transportation was listed for the Site in the historic directories from 1937 to 1952, according to City of New Bedford Fire Department records, Mann's Transportation was located adjacent and north of the Site and was not located on-Site.

4.3.4 Topographic Maps

Historical topographic maps from the years 1885, 1936, 1941 and 1979 were reviewed. A summary of the information obtained from the historic topographic map review is provided below.

Topographic Maps			
Year	**Summary On-Site**	**Summary Off-Site**	**Concerns**
1885	The Site is depicted as vacant land.	Brook Street is not depicted. Rail road tracks are west of the Site west. An urbanized area was depicted to the south.	None
1936	The former brewery building is not depicted on-Site.	Brook Street is now depicted. Rail road tracks are west of the Site beyond which are several commercial sized buildings.	None
1941	No significant changes were depicted from the 1936 topographic map.	No significant changes were depicted from the 1936 topographic map.	None
1979	The former brewery building is depicted on Site.	The surrounding properties are depicted as they exist today.	None

4.3.5 Historic Newspaper Clipping

According to a Standard Times newspaper article, dated circa 1979, an auto body shop was housed on-Site in the former brewery building. Additional details pertaining to the location of the auto body shop was not identified in municipal records. The former use of a portion of the Site as an auto body shop was considered a potential REC to the ESA and was assessed as part of the Phase I as detailed in Section 9.0 of this report.

4.3.6 Flood Insurance Rate Map Information

According to a Flood Insurance Rate Map (Panel #25005C0391F) the Site is located in an area in flood Zone X, an area of minimal flooding.

5.0 EXISITING ENVIRONMENTAL INFORMATION

5.1 State Records

The Site is not a listed site with DEP.

5.2 Off-Site Data Review

Based on groundwater flow direction, nature of contamination, regulatory status, and proximity of the properties to the Site, the sites listed in the First Search regulatory database report are not expected to adverse impact to the Site. Therefore, a DEP file review was not conducted.

5.3 Previous Environmental Investigations

Weston & Sampson was provided with a previous UST closure report prepared by Vanasse Hangen Brustlin (VHB), Inc dated January 15, 2001. According to the report, two 15,000-gallon #6 fuel oil USTs were formerly located at the Site. The USTs were removed in November 2000 by VHB on behalf of the City of New Bedford. According to a VHB report, the tanks were in good condition with no signs of leakage. Analysis of post excavation soil samples did not identify concentrations of petroleum hydrocarbons above current applicable DEP RCS-1 soil standards. A concentration of Dibenzo(a,h)anthracene was detected above the RCS-1 standard in one post excavation soil sample; however, this detected concentration was reported by VHB to be attributable to coal/coal ash fill material in the soil sample and not from a release from the USTs. It is noted that the Site was listed as a coal storage facility in the 1931, 1932 and 1936 City Directories.

Weston & Sampson was also provided with a copy of a Phase I ESA and Limited Subsurface Investigation report for the Site prepared by Clayton Group Services, Inc, dated January 30, 2006. The report indicates that Clayton performed an initial subsurface investigation at the Site in 2004. The investigation included the advancement of 10 soil borings and the completion of 4 groundwater monitoring wells (CB-1 though CB-4). Monitoring well locations are depicted on Figure 2. Clayton's report indicated that mothball like odors were identified in many of the borings.

Laboratory analysis of soil samples collected by Clayton identified a concentration of EPH fraction C11-C22 Aromatics above the current Site applicable DEP RCS-1 standard in soil sample CB-3 (0-2'). Concentrations of various PAH compounds were detected above RCS-1 standards in soil samples CB-1 (5-7'), CB-2 (5-7') and CB-3 (0-2'). Concentrations of VOCs Tetrachloroethene and Trichlorethene were detected above RCS-1 standards in soil samples CB-1 (5-7') and CB-1 (13-15'). Analysis of groundwater samples identified a concentration of Lead above the current applicable RCGW-2 standard in the sample obtained from monitoring well CMW-1/CB-1. The identification of impacted soil and groundwater at the Site above applicable DEP reportable standards was considered a REC to the ESA and was assessed as part of the Phase I ESA detailed in Section 9.0 of this report.

Fill material was identified throughout the Site during Clayton's investigation to depths between 7 to 15 feet below grade surface (bgs). The fill material consisted of fine to coarse sand and gravel with trace silt. Debris including coal, brick, trace plastic fragments, glass, wood and ash, and organics were identified in the soil borings. The fill material was underlain by native fine to coarse sand and silt.

In October 2005, Clayton advanced 7 test pits at the Site in an effort to visually assess fill material. The test pits identified buried building debris a remnants of a former building fire on-Site. Debris observed included bricks, concrete debris, rebar, paving cobbles, pipe debris, metal debris, plastic, clay tile, and charred wood and ash. The measurable depths of debris measured to approximately 8 feet bgs which was the limit of the back hoe. PID head space field screening of soil samples collected from the test pits ranged from 2 to 204 parts per million TVOCs. A coal tar odor was observed in many of the test pits. Soil samples were not submitted for laboratory analysis from the test pits. The existence of fill material with buried debris at the Site and the identification of elevated soil field screening results during Claytons test pit investigation were considered potential RECs and were assessed as part of Weston & Sampson's Phase II ESA detailed in Section 9.0 of this report.

6.0 SITE RECONNAISSANCE

On August 2, 2010, Common Sense Environmental personnel performed a visual reconnaissance of the Site. Weston & Sampson performed additional Site reconnaissance on September 16, 2010. The Site was observed by walking around the property and observing the surrounding properties.

In addition, the purpose of the Site reconnaissance was to determine Site accessibility and to evaluate potential sources of contamination to be assessed during a Phase II ESA. Photographs taken at the Site are provided in Appendix E.

6.1 Physical Setting

6.1.1 Site Setting and Topography

The physical setting of the Site is discussed in Section 2.0 of this report and is shown in Figures 1, 2 and 3. Topography of the Site is generally flat with the exception of a slight depression with demolition debris that observed along the northern portion of the Site and may indicate the location of a former basement. The elevation of the Site is approximately 50-52 feet above mean sea level.

6.1.2 Hydrogeologic Characteristics

As previously indicated, fill material was identified throughout the Site during Clayton's investigation to depths between 7 to 15 feet bgs. The fill material consisted of fine to coarse sand and gravel with trace silt. Debris including coal, brick, trace plastic fragments, glass, wood and ash, and organics were identified in the soil borings. The fill material was underlain by native fine to coarse sand and silt. During Clayton's investigation groundwater was measured between 7 to 9 feet bgs at the Site. As detailed in Section 9.0, Weston & Sampson identified similar subsurface conditions during subsurface investigation activities.

There are no wetlands or water bodies located on the Site. The closest surface water body and associated wetlands to the Site is the Acushnet River which is located approximately 1/2 mile east of the Site.

6.1.3 Potential Environmental Receptors

According to the Area Receptors Map (Figure 3) prepared using the MassGIS Environmental Receptors Database, the Site is not located within an Interim Well Protection Area (IWPA), Potentially Productive Aquifer, or within a Current or Potential Drinking Water Source Area. There are no wetlands or water bodies located on the Site.

6.2 Physical Characteristics

The following is a list of observations made during the reconnaissance of the Site. Photographs of the Site visit can be found in Appendix E.

6.2.1 Land Area

There are no buildings located on the Site and at the time of the initial Site visits, the Site was overgrown with vegetation consisting of weeds and brush. During the ESA Site visit, Weston & Sampson observed building demolition debris (brick, asphalt, cinder block and asphalt roofing shingles) scattered around the Site. Portions of the former building foundation were observed on the southern and western portions of the Site. Topography of the Site is generally flat. A depression containing demolition debris was observed along the northern portion of the Site and may indicate the location of a former basement.

6.2.2 Buildings

There are currently no buildings constructed at the Site.

6.3 OHM Storage and Use

The Site is currently vacant. There is no current OHM storage or usage at the Site.

7.0 INTERVIEWS

7.1 User

As part of this ESA and interview was conducted with Mr. Scott Alfonse, Director of the Department of Environmental Stewardship for the City of New Bedford. With the exception of the information obtained during the Clayton investigations as detailed in this report, Mr. Alfonse indicated that he has no knowledge of any other obvious indicators that point to the presence or likely presence of contamination at the Site.

7.2 Owner

The City of New Bedford is the owner of the Site. Please see above for information provided by Mr. Scott Alfonse.

7.3 State Government Officials

As part of this ESA, interviews were conducted with the City of New Bedford Fire Department, Inspectional Services Department, Environmental Health Department, and Assessor's Office. Information provided by these officials is presented in Section 4.2.

7.4 Others

No other interviews were performed as part of the assessment. Previous owners of the Site were not available for interview.

8.0 DATA GAPS

Weston & Sampson identified the following data gaps during Site reconnaissance and records review:

- At the time of the Phase I Site visit, the majority of the surface of the Site was heavily vegetated and covered with building demolition debris (brick, asphalt, cinder block and asphalt roofing shingles). Therefore, a complete inspection of the ground surface of the Site could not be completed. The purpose of the Site reconnaissance was to observe current Site conditions and assess based on visual observations, if there were release(s) of oil and/or hazardous materials (OHM) to the surface or subsurface.

- The City of New Bedford did not have any plans depicting the location of the previous 275-gallon fuel oil UST at the Site. However, this area was assessed as part of the Phase II ESA detailed in Section 9.0.

- A Site property chain of title search was not conducted as part of this ESA. However, numerous additional historic sources were consulted to establish the historical use of the property.

Due to the significant volume of information obtained relative to the historic and current use of the Site, and the information obtained during Phase II activities (detailed in Section 9.0) these data gaps, as defined by ASTM 1527-05, are not considered to have significantly affected the ability of Weston & Sampson to identify recognized environmental conditions in connection with the Site and do not alter the conclusion of this report.

9.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT

Weston & Sampson performed a Phase II ESA at the in order to assess potential RECs identified during the Phase I ESA which included the following:

- The former use of a portion of the Site as an auto body shop.
- The area of a former 275-gallon fuel oil UST that was located beneath the boiler room of the former Site building.
- The previous detection of contaminants in soil and groundwater at the Site above applicable DEP reportable standards during Clayton's investigation.
- The presence of fill material with buried debris at the Site.

The Phase II ESA was performed in October and November 2010 as detailed below. The assessment included the excavation of test pits to evaluate fill material, and the installation of soil boring / monitoring wells to further assess soil and groundwater conditions at the Site. Please see Figure 2 for all sampling locations.

9.1.1 Test Pit Excavation

On October 18, 2010, Weston & Sampson observed test pit excavation activities by Tantara Corporation. Ten (10) test pits (WSTP-1 through WSTP-10) were advanced throughout the Site utilizing a track mounted excavator. The test pits were advanced to depths between 10-12 feet bgs. Test pit logs are included in Appendix F.

9.1.2 Soil Boring / Monitoring Well Installation

On October 21 and 22, 2010, Weston & Sampson observed and documented drilling activities by Soil Exploration Corporation. Eight (8) groundwater monitoring wells (MW-1 through MW-8) were installed throughout the Site. The monitoring wells were installed utilizing a track mounted ATV hollow stem auger drill rig to depths between 12-15 feet bgs.

Each monitoring well was constructed of a 10 foot length of 2-inch diameter PVC well screen followed by a length of 2-inch diameter PVC riser to grade level. Number 2 washed sand was packed to approximately 1-2 foot above the screen followed by a 1-2 foot thick bentonite grout packing. The remainder of the boring was backfilled with native soil and then sealed to grade with concrete and completed with an elevated road box. Soil boring and monitoring well construction logs are included in Appendix F.

9.1.3 Geology

According to the USGS Bedrock Geologic Map of Massachusetts (Zen et al., 1983) the Site is underlain by Alaskite (Proterozoic Z), part of the Milford-Dedham Zone, which consists of light-gray, pinkish-gray to tan, mafic-poor granite commonly containing muscovite.

Fill material was identified in the tests pits and consisted of fine to medium sand and gravel with significant amounts of concrete and demolition debris including; brick, concrete, rebar, metal debris, wood and glass. The majority of the debris consisted of brick and concrete. The fill with debris was identified throughout the former building footprint at the Site. On the eastern portion of the Site, fill material with significantly less debris was identified. A basement slab of the former building was encountered at approximately 10 feet bgs in the majority of the test pits. Native fine to medium sand soil was identified beneath the slab at 11 feet bgs and at approximately 5 feet bgs on the eastern portion of the Site.

9.1.4 Hydrogeology

Regional groundwater in the vicinity of the Site is presumed to flow to the east-southeast towards the Acushnet River located approximately ½ mile east-southeast of the Site.

9.1.5 Groundwater Flow Survey

Weston & Sampson performed a field survey to locate all groundwater monitoring wells at the Site. As part of the survey, the elevations of the top of casing and the top of PVC riser were recorded for Site monitoring wells. A groundwater gauging event was performed and groundwater depths were recorded at each monitoring well location. Groundwater was identified between 7 and 13 feet bgs in the monitoring wells. Results of the survey and gauging event indicate that groundwater flows in the southeastern direction at the Site in the area of the former building footprint at the Site.

9.1.6 Soil Sampling

Soil samples were collected at continuous intervals during the excavation of the test pits and the advancement of the soil borings. The soil samples were screened in the field for total volatile organic compounds (TVOCs) using a PID via the DEP jar headspace method. Soils were classified in the field using the Burmister Soil Classification system by a Weston & Sampson geologist. Soil samples were selected for laboratory analysis based on PID screening data as well as visual and olfactory evidence of contamination. Field screening of the soil samples did not identify concentrations of TVOCs in any of the soil samples with the exception sample WSTP-1 8-10’ feet bgs. TVOCs were detected at 10 parts pppmv in this soil sample.

Soil samples collected from the test pits and/or borings were selected from the fill material throughout the Site for laboratory analysis based on field screening results and at surficial depths for risk characterization purposes. The soil samples were placed in pre-labeled laboratory supplied containers, preserved on ice in a cooler and transported to Groundwater Analytical Laboratories in Buzzards Bay, Massachusetts for analysis of EPH, PAHs, VPH, VOCs, 8 RCRA Metals, and PCBs.

See Table 1 (attached) for a summary table of the soil laboratory analytical results. Laboratory analytical reports are attached as Appendix G.

9.1.7 Soil Analytical Results

As shown in Table 1, analysis of the soil samples identified exceedances of RCS-1 standards. Specifically, concentrations of EPH fraction C11-C22 Aromatics were identified in samples WSTP-1 8-10’ (1,200 mg/kg) and WSTP-7 0-3’ (3,500 mg/kg) above the RCS-1 standard of

1,000 mg/kg. Napthalene was detected above the RCS-1 standard (4 mg/kg) in samples WSTP-3 0-3' (8 mg/kg) and WSTP-6 0-6' (4.3 mg/kg). Cadmium was detected above the RCS-1 standard (2 mg/kg) in soil samples WSTP-1 8-10' (3.9 mg/kg) and WSTP-10 0-3' (2.2 mg/kg). Chromium was detected above the RCS-1 standard (30 mg/kg) in soil sample WSTP-6 0-3' (44 mg/kg). Lead was detected above the RCS-1 standard (300 mg/kg) in soil sample WSTP-10 0-3' (2,000 mg/kg). Concentrations of various PAHs were also detected above S-1 standards in each of the soil samples tested.

9.1.8 Groundwater Sampling

On October 28 and 29 and November 3, 2010, Weston & Sampson performed groundwater sampling at the Site. Samples were obtained from newly installed monitoring wells MW-1 through MW-8 using EPA-approved low-flow sampling procedures. Parameters including pH, temperature, specific conductivity, dissolved oxygen, oxidation reduction potential (ORP) and turbidity were recorded using a groundwater quality meter. Groundwater samples were collected from the monitoring wells upon parameter stabilization.

The groundwater samples were placed in pre-labeled laboratory supplied containers, preserved on ice in a cooler and transported to Groundwater Analytical Laboratories for analysis of EPH, PAHs, VPH, VOCs, and 8 RCRA Metals - Dissolved.

See Table 2 (attached) for a summary table of the groundwater laboratory analytical results. Laboratory analytical reports are attached as Appendix G.

9.1.9 Groundwater Analytical Results

As shown in Table 2, analysis of the groundwater samples did not identify concentrations of targeted analytes above applicable RCGW-2 standards with the exception of the groundwater sample collected from MW-5 which detected a concentration of Napthalene (1,200 ug/l) slightly above the RCGW-2 standard (1,000 ug/l).

9.1.10 Asbestos Analysis – Building Debris

During the excavation of the test pits at the Site, trace amounts of potential asbestos containing waste building material (floor tile, roofing material, cork insulation, tar paper, and joint compound) was observed in the fill material.

Samples were collected of each potential asbestos containing material and were submitted the Groundwater Analytical for laboratory analysis of Asbestos via Polarized Light Microscopy (PLM) analysis. Tar paper samples were also analyzed via Transmission Electron Microscopy (TEM) analysis. A summary of the results is provided in Table 3. As shown in Table 3, sample WSTP-10A (tar paper) and WSTP-8A (tar paper on cork insulation) tested positive for asbestos. Asbestos was not detected in any other materials tested. Complete laboratory analytical reports are included in Appendix G.

10.0 CONCLUSIONS AND RECOMMENDATIONS

Weston & Sampson has performed a Phase I ESA in general accordance with ASTM E 1527-05 of a 0.79 acre vacant parcel of land located 29 Brook Street in New Bedford, Massachusetts (the "Site"). A Phase II ESA that included the excavation of 10 test pits and the installation of 8 monitoring wells and associated soil and groundwater sampling was also performed to assess concerns identified as part of the Phase I. Based on the results of the Phase I and II ESA the following recognized environmental condition (REC) was identified:

- The identification of impacted soil and groundwater at the Site above applicable DEP reportable standards.

Pursuant to the Massachusetts Contingency Plan (MCP) CMR 40.0000, the identification of soil and groundwater impacted above applicable reportable standards represented a reportable release condition that required reporting to the DEP within 120 days of the owner/operator of the Site obtaining knowledge of the release. On behalf of the City of New Bedford, Weston & Sampson submitted a Release Notification Form (RNF) to the DEP on January 11, 2011 for the 120 day release condition identified at the Site. The DEP subsequently assigned Release Tracking Number (RTN) 4-23056 to the Site.

The impacted soil and groundwater identified at the Site should be continued to be managed by the City under Massachusetts Contingency Plan (MCP) 310 CMR 40.000. Based on the detected concentrations and our discussions during a meeting with the DEP Southeastern Regional office relative to the Site it appears that a likely route to regulatory closure for the Site would included further assessment and monitoring, capping of the Site with clean fill material, paving or building, and the placement of an Activity and Use Limitation (AUL) to limit future Site use and implement requirements for soil and solid waste management at the Site.

11.0 LIMITATIONS

This report was prepared exclusively for the use of the City of New Bedford. The findings provided by Weston & Sampson in this report are based solely on the information reported in this document. Future investigations, and/or information that were not available to Weston & Sampson at the time of the investigation, may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site, or neighboring properties that could directly impact the Site in the future, that information should be made available to Weston & Sampson for review so that, if necessary, conclusions presented in this report may be modified. The conclusions of this report are based on Site conditions observed by Weston & Sampson personnel at the time of the investigation and information provided by federal, state and local agencies. This report has been prepared in accordance with generally accepted engineering and geological practices. No other warranty, express or implied, is made.

12.0 REFERENCES

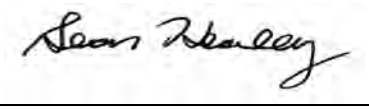
ASTM. 2000, E 1527-05. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Massachusetts Department of Environmental Protection (MADEP). June 26, 2009, *Massachusetts Contingency Plan*. 310 CMR 40.0000, Bureau of Waste Site Cleanup.

USGS Bedrock Geologic Map of Massachusetts (Zen et al., 1983).

13.0 SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

This ESA was prepared by a Qualified Environmental Professional (EP) as defined in ASTM E1527-05 and EPA's proposed AAI. The EP is a Licensed Site Professional (LSP) in Massachusetts and has over 10 years of environmental experience with degrees in relevant disciplines.



Sean F. Healey, LSP

2/11/11

Date

FIGURES

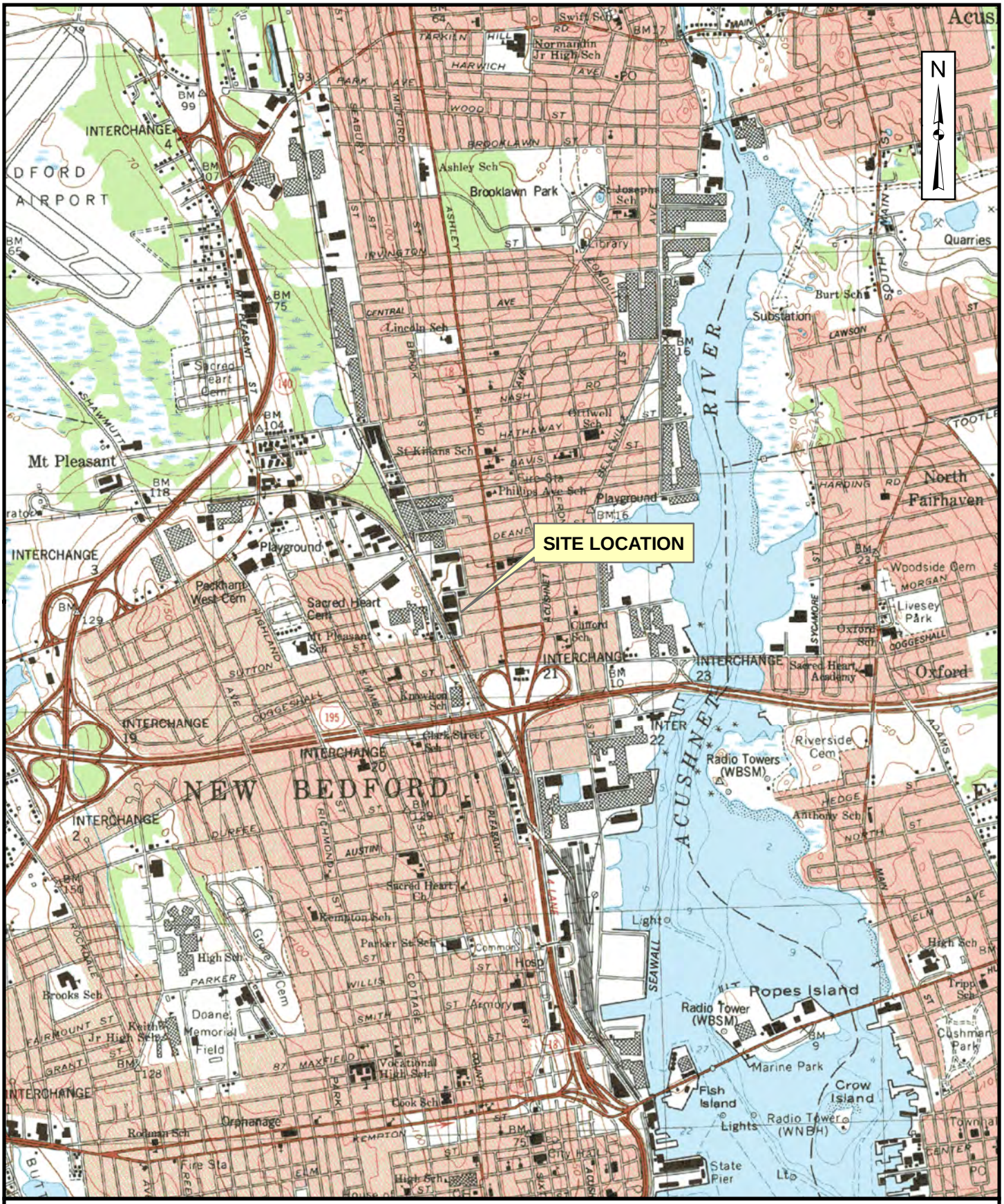


FIGURE 1
29 BROOK STREET
NEW BEDFORD, MASSACHUSETTS

LOCUS MAP

0 2,000 4,000 Feet

Weston&Sampson

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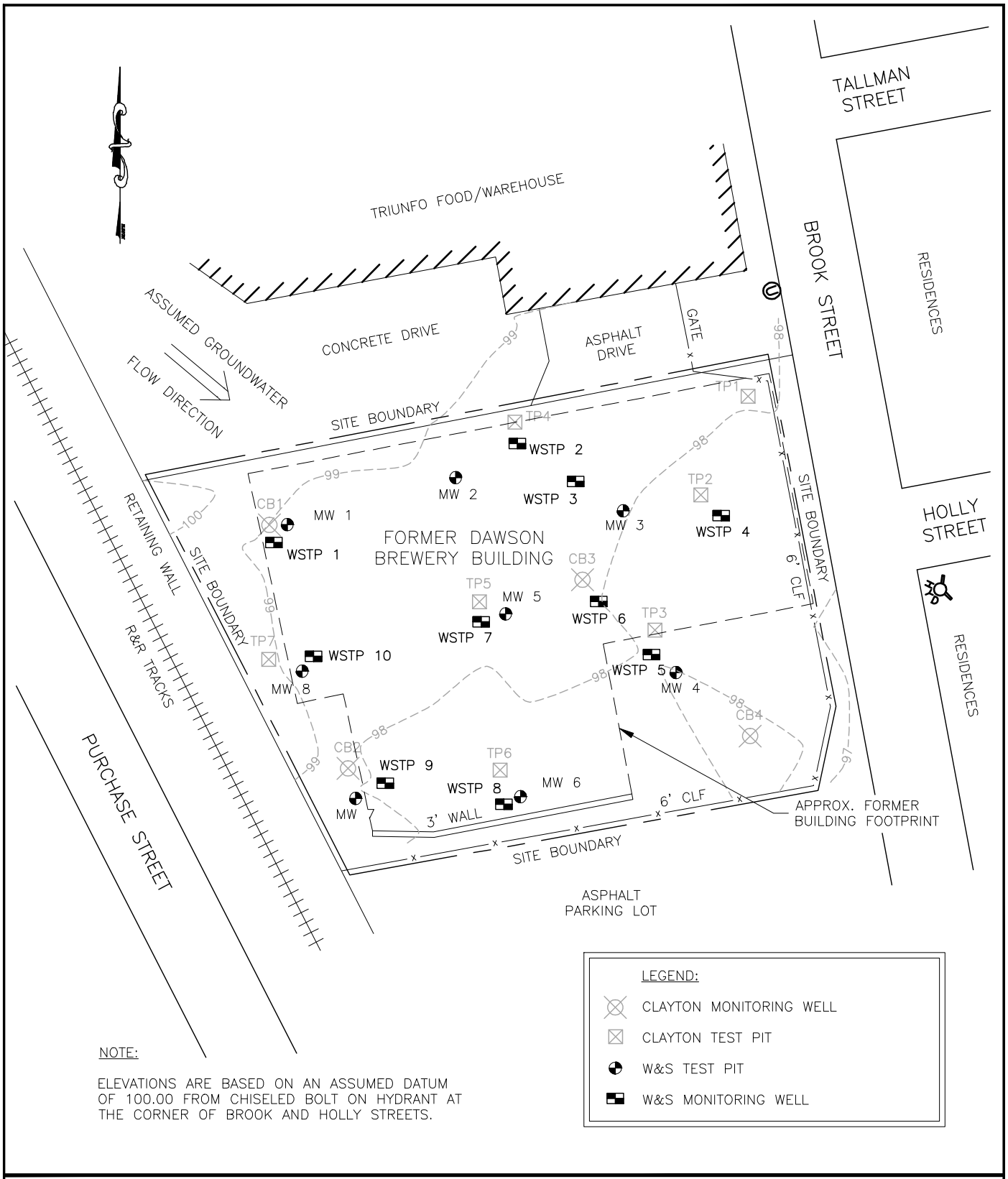

NOTE:

ELEVATIONS ARE BASED ON AN ASSUMED DATUM OF 100.00 FROM CHISELED BOLT ON HYDRANT AT THE CORNER OF BROOK AND HOLLY STREETS.

FIGURE 2
29 BROOK STREET
NEW BEDFORD, MASSACHUSETTS

SITE PLAN

SCALE: 1"=50'

0 50 100

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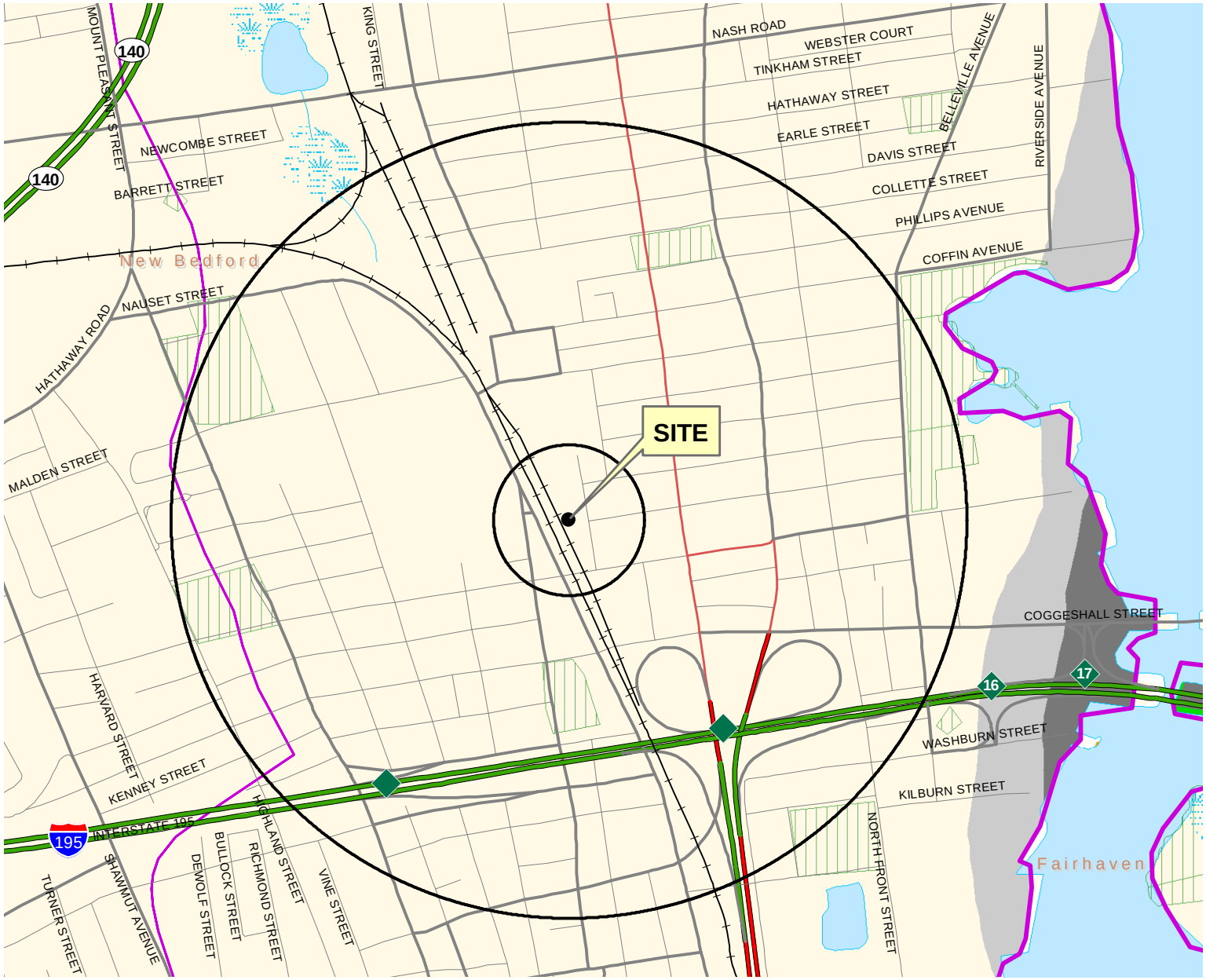

N
W E
S

1,000 500 0 1,000 Feet

0.25 0.125 0 0.25 Miles

Data Source: Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs

Radii shown are approximately 500-feet and 1/2-mile from center of Site.

Legend

- Town Boundaries
- State Boundary
- Ground Water
- Surface Water
- Non-Community
- NHESP Certified Vernal Pools
- Railroads by Ownership
- Pipeline
- Pipeline Arbitrary Extension
- Powerline
- Powerline Arbitrary Extension
- Ski Lift/Tramway
- Substation
- Landing Strip/Airport
- Highway Exit Locations

All Roads

Road Classification

- Limited Access Highway
- Multi-lane Hwy, not limited access
- Other Numbered Highway
- Major Road, Collector
- Minor Road, Arterial
- Sub-basins
- Major Basins
- Solid Waste Facilities
- Protected Open Space
- ACECs
- Zone A
- IWPAs
- DEP Approved Zone IIs
- River, Stream, Shoreline
- Water
- Wetland
- Sole Source Aquifers
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Priority Habitats of Rare Species

Non Potential Drinking Water Source Area

- High Yield
- Medium Yield

Aquifers

- High Yield
- Medium Yield

MA Towns (from Survey Points)

- MA Towns (from Survey Points)

FIGURE 3

Area Receptors Map
29 Brook Street
New Bedford, MA

Weston&Sampson®

TABLES

Table 1
Weston & Sampson
Summary of Soil Analytical Results
29 Brook Street
New Bedford, MA

Sample ID	WS-1(5-7')	WS-1 (13-15')	WSTP-1 (8-10')	WSTP-2 (0-3')	WSTP-3 (0-3')	WSTP-4 (0-3')	WSTP-5 (0-3')	WSTP-6 (0-3')	WSTP-7 (0-3')	WSTP-8 (0-3')	WSTP-9 (0-3')	WSTP-9A (0-3')	WSTP-10 (0-3')	RCS-1	Method 1 Soil Standards	
Date Sampled	10/21/10	10/21/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10	10/18/10		S1/GW2	S1/GW3
Parameters (mg/kg)														mg/kg	mg/kg	mg/kg
EPH																
C9-C18 Aliphatics	--	--	<44	<23	<110	<22	<22	<23	<24	<120	<22	<22	<120	1,000	1,000	1,000
C19-C36 Aliphatics	--	--	**960**	**170**	**360**	**130**	**64**	**160**	**340**	**300**	**87**	**78**	**300**	3,000	3,000	3,000
C11-C22 Aromatics	--	--	**1,200**	**980**	**920**	**340**	**98**	**970**	**3,500**	**900**	**400**	**620**	**410**	1,000	1,000	1,000
PAH																
Acenapthene	--	--	<5.5	**12**	**9.4**	<2.8	**0.65**	**13**	**71**	**12**	**3.4**	**7.5**	<3.1	4	1,000	1,000
Acenaphthylene	--	--	<5.5	<5.7	<2.8	<2.8	<0.56	<5.9	<15	<2.9	<2.8	<5.6	<3.1	1	600	10
Anthracene	--	--	**12**	**21**	**20**	**6.0**	**1.9**	**21**	**110**	**28**	**7.0**	**15**	**6.0**	1,000	1,000	1,000
Benzo(a)anthracene	--	--	**30**	**34**	**35**	**10**	**3.8**	**33**	**92**	**40**	**16**	**26**	**12**	7	7	7
Benzo(a)pyrene	--	--	**26**	**25**	**29**	**8.0**	**3.5**	**25**	**55**	**32**	**14**	**20**	**11**	2	2	2
Benzo(b)fluoranthene	--	--	**35**	**29**	**35**	**9.2**	**4.0**	**25**	**60**	**39**	**16**	**25**	**12**	7	7	7
Benzo(g,h,i)perylene	--	--	**14**	**12**	**13**	**3.7**	**1.9**	**12**	**19**	**16**	**7.8**	**10**	**6.0**	1,000	1,000	1,000
Benzo(k)fluoranthene	--	--	**17**	**21**	**13**	**5.7**	**2.0**	**21**	**46**	**15**	**9.5**	**13**	**7.1**	70	70	70
Chrysene	--	--	**32**	**36**	**38**	**11**	**4.4**	**33**	**87**	**42**	**17**	**27**	**14**	70	70	70
Dibenz(a,h)anthracene	--	--	<5.5	<5.7	**4.5**	<2.8	**0.59**	<5.9	<15	**5.2**	<2.8	<5.6	<3.1	0.7	0.7	0.7
Fluoranthene	--	--	**77**	**90**	**83**	**25**	**8.5**	**85**	**270**	**100**	**37**	**69**	**27**	100	1,000	1,000
Fluorene	--	--	<5.5	**11**	**9.9**	<2.8	**0.72**	**12**	**69**	**15**	**3.3**	**8.5**	<3.1	1,000	1,000	1,000
Indeno(1,2,3-cd)	--	--	**16**	**14**	**17**	**4.4**	**2.2**	**14**	**26**	**19**	**8.7**	**12**	**7**	7	7	7
2-Methylnaphthalene	--	--	<5.5	<5.7	<2.8	<2.8	<0.56	<5.9	**22**	<2.9	<2.8	<5.6	<3.1	0.7	80	300
Naphthalene	--	--	<5.5	<5.7	**5.3**	<2.8	<0.56	<5.9	**34**	**3.8**	<2.8	<5.6	<3.1	4	40	500
Phenanthrene	--	--	**48**	**91**	**78**	**22**	**6.6**	**94**	**400**	**110**	**31**	**66**	**23**	10	500	500
Pyrene	--	--	**57**	**69**	**63**	**20**	**6.7**	**64**	**210**	**77**	**29**	**52**	**22**	1,000	1,000	1,000
VPH	--	--														
C5-C8 Aliphatics	--	--	<8.4	<1.9	<1.2	**2.0**	**2.6**	**2.2**	**2.5**	<1.7	**2.0**	**2.0**	**1.6**	100	100	100
C9-C12 Aliphatics	--	--	**21**	**5.2**	**4.5**	<1.3	**1.8**	<1.5	<1.6	<1.7	<1.3	<1.4	<1.5	1,000	1,000	1,000
C9-C10 Aromatics	--	--	<8.4	<1.9	**5.0**	<1.3	<1.3	**2.2**	**2.4**	<1.7	**1.9**	**1.5**	<1.5	100	100	100
Targeted VOCs	--	--														
Benzene	--	--	<0.84	<0.19	<0.12	<0.13	**0.19**	<0.15	<0.16	<0.17	<0.13	<0.14	<0.15	2	7	7
Ethlybenzene	--	--	<0.84	<0.19	**0.24**	<0.13	<0.13	<0.15	<0.16	<0.17	<0.13	<0.14	<0.15	40	500	500
Naphthalene	--	--	<2.1	**2.2**	**8.0**	**0.54**	<0.33	**4.3**	**3.7**	**1.6**	**2.1**	**1.4**	**0.62**	4	40	500
Toluene	--	--	<0.84	<0.19	**0.15**	<0.13	<0.13	<0.15	<0.16	<0.17	<0.13	<0.14	<0.15	30	500	500
Xylenes	--	--	<0.84	<0.19	**0.21**	<0.13	<0.13	<0.15	<0.16	<0.17	**0.14**	<0.14	**0.44**	300	300	500
VOCs																
4-Isopropyltoluene	**0.008**	<0.005	<0.011	<0.006	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005	<0.005	<0.005	<0.007	NS	NS	NS
Napthalene	<0.006	<0.005	<0.011	**0.016**	**0.058**	<0.005	<0.005	<0.005	**0.069**	<0.005	<0.005	<0.005	<0.007	4	40	500
Trace Metals																
Arsenic	--	--	<3.9	<3.4	<3.6	<3.5	<3.5	<3.6	<3.5	<3.6	<3.4	<3.4	<3.6	20	20	20
Barium	--	--	**55**	**160**	**130**	**61**	**58**	**200**	**200**	**130**	**200**	**96**	**290**	1,000	1,000	1,000
Cadmium	--	--	**3.9**	**0.89**	**0.84**	<0.58	**0.69**	**1.5**	**0.74**	**1.2**	**0.88**	**0.93**	**2.2**	2	2	2
Chromium	--	--	**8.6**	**17**	**13**	**7.1**	**8.2**	**44**	**11**	**16**	**14**	**12**	**20**	30	30	30
Lead	--	--	**170**	**140**	**170**	**86**	**210**	**240**	**210**	**170**	**220**	**210**	**2,000**	300	300	300
Mercury	--	--	**0.039**	**0.042**	**0.95**	**0.41**	**0.21**	**0.95**	**0.26**	**1.1**	**3.7**	**3.9**	**0.51**	20	20	20
Selenium	--	--	<6.6	<5.7	<5.9	<5.8	<5.9	<6.0	<5.9	<6.0	<5.6	<5.6	<6.1	400	400	400
Silver	--	--	<1.3	<1.1	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	100	100	100
PCBs	--	--														
Aroclor 1254	--	--	**0.230**	<0.093	<0.093	<0.089	<0.090	<0.093	<0.095	<0.093	<0.089	<0.089	**0.460**	2	2	2
Aroclor 1260	--	--	**0.250**	**0.110**	<0.093	<0.089	<0.090	<0.093	<0.095	<0.093	<0.089	<0.089	**0.670**	2	2	2

Notes:
-- = Not Analyzed
EPH = Extractable Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VPH = Volatile Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds
mg/kg = milligrams per kilogram
< = indicates parameter not detected above laboratory method reporting limit, shown

BOLD = parameter detected above laboratory detection limit
BOLD = parameter exceeds applicable standard
MCP Method 1 Standards are from the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000, revised February 14, 2008.

Table 2
Weston & Sampson
Summary of Groundwater Analytical Results
29 Brook Street
New Bedford, MA

Sample ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**		**MW-6**	**MW-7**	**MW-8**	**Reportable Concentrations**	**Method 1 Groundwater Standards**	
Date Sampled	**10/28/2010**	**10/28/2010**	**10/28/2010**	**10/28/2010**	**10/28/2010**	**10/28/2010 DUP-1**	**10/29/2010**	**10/29/2010**	**10/29/2010**	**RCGW-2**	**GW-2**	**GW-3**
Parameters (Units)												
EPH (ug/l)												
C9-C18 Aliphatics	<100	<100	<110	<100	<100	<100	<110	<110	<150	5,000	5,000	50,000
C19-C36 Aliphatics	**520**	**170**	<110	<100	**110**	<100	<110	<110	<150	50,000	NS	50,000
C11-C22 Aromatics	**390**	**110**	<110	<100	**1,200**	<100	<110	<110	<150	5,000	50,000	5,000
Target PAHs (ug/l)												
Acenaphthene	<5	<5	<5	<5	**40**	<5	<5	<6	<5	6,000	NS	6,000
Anthracene	<5	<5	<5	<5	**12**	<5	<5	<6	<5	30	NS	30
Fluoranthene	**7.0**	<5	<5	<5	**12**	<5	<5	<6	<5	200	NS	200
Fluorene	<5	<5	<5	<5	**37**	<5	<5	<6	<5	40	NS	40
2-Methylnaphthalene	<5	<5	<5	<5	**65**	<5	<5	<6	<5	2,000	2,000	20,000
Naphthalene	<5	<5	<5	<5	**500**	<5	<5	<6	<5	1,000	1,000	20,000
Phenanthrene	<5	**7**	<5	<5	**65**	<5	<5	<6	<5	10,000	NS	10,000
Pyrene	**5.0**	<5	<5	<5	**7.0**	<5	<5	<6	<5	20	NS	20
VPH (ug/l)												
C5-C8 Aliphatics	<20	<20	<20	<20	**45**	<20	<20	<20	<20	3,000	3,000	50,000
C9-C12 Aliphatics	<20	<20	<20	<20	**22**	<20	<20	<20	<20	5,000	5,000	50,000
C9-C10 Aromatics	<20	<20	<20	<20	**100**	<20	<20	<20	<20	7,000	7,000	50,000
VOCs (ug/l)												
Acetone	<25	<10	**22**	<25	**260**	<10	<10	**62**	**43**	50,000	50,000	50,000
sec-Butylbenzene	<0.5	**0.6**	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	NS	NS	NS
MTBE	0.8	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	5,000	50,000	50,000
Naphthalene	<0.5	**13**	<0.5	<0.5	**1,200**	<0.5	<0.5	<0.5	<0.5	1,000	1,000	20,000
Toluene	<0.5	<0.5	<0.5	<0.5	**22**	<0.5	<0.5	<0.5	<0.5	40,000	50,000	40,000
Trichloroethene	<0.5	<0.5	**1**	<0.5	<10	<0.5	<0.5	<0.5	<0.5	30	30	5,000
Xylenes, Total												
Trace Metals (mg/l)												
Arsenic	<.01	<0.1	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.9	NS	0.9
Barium	<.05	<0.5	<0.05	<0.05	**0.05**	**0.05**	**0.05**	**0.08**	<0.05	50	NS	50

Notes:
Only compounds detected are listed
NA = Not Analyzed
NS = Not Established
ug/l = Micrograms per liter
mg/l = milligram per liter
EPH = Extractable Petroleum Hydrocarbons
VPH = Volatile Petroelum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
BOLD = Parameter detected above laboratory detection limit
Exceeds RCGW-2 and Method 1 GW-2
MCP Method 1 Standards are from the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000, revised February 14, 2008

Table 3
Weston & Sampson
Summary of Asbestos Analytical Results
29 Brook Street
New Bedford, MA

Sample ID	**ACM-1**	**ACM-2**	**ACM-3**	**ACM-4**	**ACM-5**	**WSTP-1-A**	**WSTP-1-B**	**WSTP-1-C**	**WSTP-2-A**	**WSTP-2-B**	**WSTP-2-C**	**WSTP-3-A**	**WSTP-3-B**	**WSTP-4-A**	**WSTP-5-A**
Material	Floor Tile	Roofing Material	Floor Tile	Floor Tile	Floor Tile	Roofing Material	Insulation Cork	Floor Tile	Floor Tile	Tar Paper	Coated Ceramic	Tar Paper	Possible Joint Compound	Tar Paper	Floor Tile
Date Sampled	10/18/10	10/19/10	10/20/10	10/21/10	10/22/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10
PLM Analysis - Asbestos Present (Type / %)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TEM Analysis - Asbestos Present (Type / %)	NA	NO	NA	NA	NA	NO	NA	NA	NA	NO	NA	NO	NA	NO	NA

Sample ID	**WSTP-6-A**	**WSTP-7-A**	**WSTP-8-A**	**WSTP-8-B**	**WSTP-8-C**	**WSTP-8-D**	**WSTP-9-A**	**WSTP-10A**	**WSTP-10-B**
	Tar Paper On Block	Tar Paper On Block	Tar Paper On Cork	Insulation Cork	Floor Tile	Possible Joint Compound	Insulation Cork, Coated Red	Tar Paper	Floor Tile
Date Sampled	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10	10/21/10
PLM Analysis - Asbestos Present (Type / %)	NO	NO	NO	NO	NO	NO	NO	**YES (Chrysotile / 35%)**	NO
TEM Analysis - Asbestos Present (Type / %)	NO	NO	**YES (Chrysotile / 3%)**	NA	NA	NA	NA	**YES (Chrysotile / 42.3%)**	NA

Notes:
NA= Not Tested
PLM=Polarized Light Microscopy
TEM=Transmission Electron Microscopy

Table 4

Groundwater Elevations

29 Brook Street

New Bedford, MA

Date of Gauging Event: 10/28/10

Monitoring Well ID	Top of PVC elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-1	102.31	13.16	89.15
MW-2	102.04	12.81	89.23
MW-3	101.20	11.96	89.24
MW-4	100.96	13.95	87.01
MW-5	101.27	12.41	88.86
MW-6	100.34	11.73	88.61
MW-7	101.50	7.55	93.95
MW-8	101.72	12.59	89.13

Notes:

1. Elevations are referenced to a temporary bench mark on site set at 100.00'.

2. Elevation of MW-7 appears to be an anamoly and not utilized in groundwater flow direction calcuations.

APPENDIX A

User Questionnaire

ASTM ENVIRONMENTAL SITE ASSESSMENT
QUESTIONNAIRE
PRACTICE E 1527-06

SITE DESCRIPTION: Vacant Lot (former Dawson Brewery)
SITE ADDRESS: 29 Brook Street
CITY, STATE: New Bedford, MA
Date: August 2, 2010

Question	Owner	Occupants (if applicable)	Observed During Site Visit	Former Owner
1a. Is the property used for an industrial use?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
1b. Is any adjoining property used for an industrial use?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
2a. Did you observe or do you have any prior knowledge that the property has been used for an industrial use in the past?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
2b. Did you observe or do you have any prior knowledge that any adjoining property has been used for an industrial use in the past?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
3a. Is the property used a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, which?)	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
3b. Is any adjoining property used a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, which?)	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
4a. Did you observed evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, which?)	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
4b. Did you observed evidence or do you have any prior knowledge that the adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, which?)	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
5a. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemical in individual containers of >5 gal in volume or 50 gal in the aggregate, stored on or used at the property or at the facility?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
5b. Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemical in individual containers of >5 gal in volume or 50 gal in the aggregate, stored on or used at the property or at the facility?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
6a. Are there currently any industrial drums or sacks of chemicals located on the property or at the facility?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk

Not Applicable 8/2/10 [illegible]

Not Interviewed 8/2/10 [illegible]

ASTM ENVIRONMENTAL SITE ASSESSMENT
QUESTIONNAIRE
PRACTICE E 1527-06

SITE DESCRIPTION: Vacant Lot (former Dawson Brewery)
SITE ADDRESS: 29 Brook Street
CITY, STATE: New Bedford, MA
Date: August 2, 2010

Question	Owner	Occupants (if applicable)	Observed During Site Visit	Former Owner
6b. Did you observe evidence or do you have any prior knowledge that there have previously been any industrial drums or sacks of chemicals located on the property or at the facility?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
7a. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated source?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
7b. Did you observe evidence or do you have any prior knowledge that fill dirt have been brought onto the property that is of an unknown origin?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
8a. Are there currently any pits, ponds, or lagoons located on the property in connection with water treatment or waste disposal?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
8b. Did you observe or do you have prior knowledge that there have been previously, any pits, ponds, or lagoons located on the property in connection with water treatment or waste disposal?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
9a. Is there currently any stained soil on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
10a. Are there currently any registered or unregistered storage tanks (above or underground) located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
10b. Did you observe or do you have prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
11a. Are there currently any vent pipes, fill pipes or access ways indicating a fill pipe protruding form the ground on the property or adjacent to any structure located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
11b. Did you observed or do you have any prior knowledge that there have previously, any vent pipes, fill pipes or access ways indicating a fill pipe protruding form the ground on the property or adjacent to any structure located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
12a. Is there currently evidence of leaks, spills or staining by substances other than water, soul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
13a. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
13b. If the property is served by a private well or non-public water system, is there evidence e or do you have prior knowledge that the well has been designated as contaminated by any government environmental health agency?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
14. Does the owner or occupant of the property have any knowledge of				

Not Occupied 8/2/10 A. Mulcahy

Not Interviewed 8/2/10 C. Hill

ASTM ENVIRONMENTAL SITE ASSESSMENT
QUESTIONNAIRE
PRACTICE E 1527-06

SITE DESCRIPTION: Vacant Lot (former Dawson Brewery)
SITE ADDRESS: 29 Brook Street
CITY, STATE: New Bedford, MA
Date: August 2, 2010

Question	Owner	Occupants (if applicable)	Observed During Site Visit	Former Owner
environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
15a. Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
15b. Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property of any facility located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
15c. Has the owner or occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
15d. Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
16. Does the owner or occupant of the property have any knowledge of any environmental site assessments of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
17. Does the owner or occupant of the property know of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substances or petroleum products involving the property by any owner or occupant of the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
18a. Does the property discharge waste water (not including sanitary waste or storm water) onto or adjacent to the property and/or into a storm water system?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
18b. Does the property discharge waste water (not including sanitary waste or storm water) onto or adjacent to the property and/or into a sanitary sewer system?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
19. Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive, or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	Y/N/Unk	Y/N/Unk	Y/N/Unk	Y/N/Unk

Not Applicable 8/2/10

Not Employed 8/2/10

ASTM ENVIRONMENTAL SITE ASSESSMENT
TRANSACTION SCREEN QUESTIONNAIRE
PRACTICE E 1527-06

SITE DESCRIPTION: Vacant Lot (former Dawson Brewery)
SITE ADDRESS: 29 Brook Street
CITY, STATE: New Bedford, MA
Date: August 2, 2010

21. Do any of the following Federal government record systems list the property or any property within the search distance noted below:

	Approximate Minimum Search Distance (miles)	
Federal NPL site list	1.0	Yes/No
Federal CERCLIS list	0.5	Yes/No
Federal CERCLIS NFRAP site list	1.0	Yes/No *
Federal RCRA CORRACTS facilities list	0.5	Yes/No
Federal RCRA non-CORRACTS TSD facilities list	0.5	Yes/No
Federal RCRA generators list	property and adjoining properties	Yes/No
Federal ERNS list	property only	Yes/No

22. Do any of the following State record systems list the property or any property within the search distance noted below:

	Approximate Minimum Search Distance (miles)	
State Equivalent NPL	1.0	Yes/No
State Equivalent CERCLIS	0.5	Yes/No
State Landfill and/or solid waste disposal site lists	0.5	Yes/No
State leaking UST sites	0.5	Yes/No
State registered UST sites	property and adjoining properties	Yes/No

23. Based upon a review of fire insurance maps 10.3.1.3 or consultation with the local fire department serving the property, all as specified in the guide, are any buildings or other improvements on the property or on an adjoining property identified as having been used for an industrial use or uses likely to lead to contamination of the property? Yes/No

User provided information:

Are you aware of an environmental cleanup liens against the property that are filed or recorded under federal tribal, state or local law? Yes/No

Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? Yes/No

As User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? Yes/No

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be preset at the property? Yes/No

Do you know the past uses of the property? Yes/No

Do you know of specific chemicals that are present or once were present at the property? Yes/No

Do you know of spills or other chemical releases that have taken place at the property? Yes/No

D you know of any environmental cleanups that have taken place at the property? Yes/No

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property? Yes/No

* Yes based on prior Phase I ESA completed by Clayton Env.

ASTM ENVIRONMENTAL SITE ASSESSMENT
QUESTIONNAIRE
PRACTICE E 1527-06

SITE DESCRIPTION: Vacant Lot (former Dawson Brewery)
SITE ADDRESS: 29 Brook Street
CITY, STATE: New Bedford, MA
Date: August 2, 2010

The Owner Questionnaire was completed by:
Name: Scott Alphonse (telephone interview)
Title: Env Steward for City of New Bedford (property owner)
Address: 133 William Street
Address: New Bedford, MA
Address:
Phone number: 508-991-6188
Date: 8-11-10
Role at site: Property owner's representative
Number of years at the site:
Preparer's relationship to site: consultant
Preparer's relationship to user: consultant

The Occupant Questionnaire was completed by:
Name:
Title:
Address: **Property is not occupied**
Address:
Address:
Phone number:
Date:
Role at site: tenant
Number of years at the site:
Preparer's relationship to site: consultant
Preparer's relationship to user: consultant

The Site Visit questionnaire was completed by:
Cynthia Gilchrest
Common Sense Environmental, Inc.
105 William Street
New Bedford,MA 02740
Telephone: 508-858-5606
8/2/2010
Preparer's relationship to site: consultant
Preparer's relationship to user: consultant

The Government Records and Historical Sources Inquiry questionnaire was completed by:
Cynthia Gilchrest
Common Sense Environmental, Inc.
105 William Street
New Bedford,MA 02740
Telephone: 508-858-5606
8/2/2010
Preparer's relationship to site: consultant
Preparer's relationship to user: consultant

User's relationship to the site (for example, owner, prospective purchaser, lender, etc.)
City of New Bedford - Property Owner

Copies of the completed questionnaires have been filed at:
City of New Bedford - Property Owner

Copies of the completed questionnaires have been mailed or delivered to:
City of New Bedford - Property Owner

Former Property Owner/Representative:
Name:
Title:
Firm:
Address:
Address:
Phone number:
Date:
Role at site:
Number of years at the site:

Preparer represents that to the best of preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

Signature:
Date: 8-11-10

Signature:
Date: 8-11-10

Signature:
Date:

It is the User's responsibility to draw conclusions regarding affirmative or unknown answers.

APPENDIX B

Environmental Data Resources, Inc. Report

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property:

29 BROOK ST

NEW BEDFORD MA 02746

Job Number: 73010

PREPARED FOR:

Common Sense Environmental, Inc.

105 William Street, Suite 22

New Bedford, MA 02740

07-30-10

Tel: (781) 551-0470 *Fax: (781) 551-0471*

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Environmental FirstSearch
Search Summary Report

Target Site: 29 BROOK ST
NEW BEDFORD MA 02746

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	05-01-10	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	05-01-10	0.50	0	0	0	0	-	0	0
CERCLIS	Y	07-02-10	0.50	0	0	0	0	-	0	0
NFRAP	Y	07-02-10	0.50	0	0	1	0	-	1	2
RCRA COR ACT	Y	07-14-10	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	07-14-10	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	07-14-10	0.25	0	2	4	-	-	0	6
Federal Brownfield	Y	07-06-10	0.50	2	0	5	0	-	2	9
ERNS	Y	07-23-10	0.12	0	3	-	-	-	1	4
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	05-07-10	1.00	0	2	3	0	0	18	23
State Spills 90	Y	05-07-10	0.12	0	8	-	-	-	2	10
State/Tribal SWL	Y	04-01-10	0.50	0	0	0	0	-	1	1
State/Tribal LUST	Y	05-07-10	0.50	0	3	4	0	-	2	9
State/Tribal UST/AST	Y	05-07-10	0.25	0	3	6	-	-	0	9
State/Tribal EC	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	05-07-10	0.25	0	1	2	-	-	0	3
State/Tribal VCP	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	NA	0.50	0	0	0	0	-	0	0
State Other	Y	01-01-07	0.25	0	0	0	-	-	0	0
Federal IC/EC	Y	06-02-10	0.50	0	0	0	0	-	0	0
- TOTALS -				2	22	25	0	0	28	77

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Site Information Report

Request Date:	07-30-10	**Search Type:**	COORD
Requestor Name:	Cynthia Gilchrest/ Common Sense Enviro/ma		
		Job Number:	73010
Standard:	AAI	**Filtered Report**	

Target Site: 29 BROOK ST
NEW BEDFORD MA 02746

Demographics

Sites:	77	**Non-Geocoded:**	28	**Population:**	19224
Radon:	1.5 PCI/L				

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-70.931637	-70:55:54	**Easting:**	339165.516
Latitude:	41.658332	41:39:30	**Northing:**	4613431.767
Elevation:	50		**Zone:**	19

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel

Services:

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

TOTAL: 77 **GEOCODED:** 49 **NON GEOCODED:** 28 **SELECTED:** 77

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	FEDBROWNFIELD	DAWSON BREWERY 69597431-15244/EPA BROWNFIELD	29 BROOK ST NEW BEDFORD MA 02746	0.00 --	0	1
1	FEDBROWNFIELD	DAWSON BREWERY 69597431-1/EPA BROWNFIELD	29 BROOK ST NEW BEDFORD MA 02746	0.00 --	0	2
2	SPILLS	DACOSTA and SONS SUNOCO 4-0019909/RAO	397 SAWYER ST NEW BEDFORD MA 02746	0.09 SW	+ 5	3
2	UST	SUNOCO GAS STATION 0-003455/IN USE	397 SAWYER ST NEW BEDFORD MA 02746	0.09 SW	+ 5	5
3	ERNS	UNKNOWN 611405/HIGHWAY RELATED	JEAN AND SAWYER ST NEW BEDFORD MA 02746	0.10 SE	- 6	8
4	SPILLS	BOILER ROOM AREA 4-0016367/RAO	1129 COUNTY ST NEW BEDFORD MA 02746	0.10 SW	+ 11	9
7	ERNS	D41137/FAC UST	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	12
7	ERNS	FAIRHAVEN TEXTILE CORP. 426136/FIXED FAC./UST	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	13
7	INSTCONTROL	FAIRHAVEN TEXTILE CORP 4-0010386/AUL	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	14
7	LUST	FAIRHAVEN TEXTILE CORP 4-0010386/RAO	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	17
7	SPILLS	FAIRHAVEN TEXTILE CORP 4-0010386/RAO	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	20
7	SPILLS	FAIRHAVEN TEXTILE 4-0000989/RAO	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	23
7	SPILLS	PROPERTY S90-0774/CLOSED	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	25
7	STATE	FAIRHAVEN TEXTILE 4-0000989/RAO	79 BROOK ST NEW BEDFORD MA 02746	0.12 NE	+ 3	26
6	LUST	SHELL SERVICE STATION 4-0001079/RAO	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	27
6	LUST	NO LOCATION AID 4-0019176/RAONR	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	30
6	RCRAGN	MOTIVA ENTERPRISES LLC MAC300003522/SGN	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	32
6	SPILLS	NO LOCATION AID 4-0019176/RAONR	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	33
6	SPILLS	SHELL SERVICE STATION 4-0001079/RAO	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	35
6	STATE	SHELL SERVICE STATION 4-0001079/REMOPS	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	38
6	UST	YAHYA GAS CORP DBA STOP and SAVE 0-003471/IN USE	129 ASHLEY BLVD NEW BEDFORD MA 02746	0.12 SE	- 6	41

Environmental FirstSearch
Sites Summary Report

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NEW BEDFORD MA 02746

JOB: 73010

TOTAL: 77 **GEOCODED:** 49 **NON GEOCODED:** 28 **SELECTED:** 77

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
5	RCRAGN	INTERSTATE BRANDS MAD162129506/SGN	2185 PURCHASE ST NEW BEDFORD MA 02746	0.12 SW	- 4	44
8	SPILLS	MILL BUILDING WAREHOUSE 4-0018186/RAO	419 SAWYER ST NEW BEDFORD MA 02746	0.12 SW	+ 10	45
5	UST	CONTINENTAL BAKING CO 0-003381/REMOVED	2185 PURCHASE ST NEW BEDFORD MA 02746	0.12 SW	- 4	47
10	UST	FIDELIO MONTROND 0-003464/REMOVED	121 ASHLEY BLVD NEW BEDFORD MA 02746	0.15 SE	- 9	48
9	LUST	CLEAN RENTALS INC 4-0014300/RAO	1066 COUNTY ST NEW BEDFORD MA 02746	0.15 SW	- 4	50
9	UST	CLEAN RENTALS 0-008420/REMOVED	1066 COUNTRY ST NEW BEDFORD MA 02746	0.15 SW	- 4	52
11	LUST	SAINT ANTHONY S OF PADAUA 4-0018201/RAO	190 ASHLEY BLVD NEW BEDFORD MA 02746	0.16 NE	+ 6	54
11	STATE	SAINT ANTHONY S OF PADAUA 4-0018201/TIERII	190 ASHLEY BLVD NEW BEDFORD MA 02746	0.16 NE	+ 6	57
12	RCRAGN	TIBBETTS ENGINEERING CORP MAD019519867/VGN	210 DEANE ST NEW BEDFORD MA 02746	0.17 NW	+ 9	60
13	INSTCONTROL	NO LOCATION AID 4-0013556/AUL	116 ASHLEY BLVD NEW BEDFORD MA 02746	0.17 SE	- 12	61
13	LUST	NO LOCATION AID 4-0013556/RAO	116 ASHLEY BLVD NEW BEDFORD MA 02746	0.17 SE	- 12	64
13	STATE	NO LOCATION AID 4-0013556/RAO	116 ASHLEY BLVD NEW BEDFORD MA 02746	0.17 SE	- 12	67
13	UST	HI-LO GAS 0-003410/IN USE	116 ASHLEY BLVD NEW BEDFORD MA 02746	0.17 SE	- 12	69
14	LUST	REAR PARKING LOT 4-0010014/RAO	14 ADAMS ST NEW BEDFORD MA 02746	0.18 SW	+ 2	71
15	INSTCONTROL	NO LOCATION AID 4-0018572/AUL	2307 PURCHASE ST NEW BEDFORD MA 02746	0.22 NW	+ 20	73
16	RCRAGN	RITE AID PHARMACY 10209 MAR000013581/SGN	1207 ACUSHNET AVE NEW BEDFORD MA 02746	0.24 SE	- 20	76
17	FEDBROWNFIELD	ALDEN CORRUGATED 54308801-18/EPA BROWNFIELD	NEW BEDFORD MA 02746	0.25 NW	+ 26	77
17	FEDBROWNFIELD	ALDEN CORRUGATED 10000001-10004/EPA BROWNFIELD/ACRE	1 CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	78
17	FEDBROWNFIELD	ALDEN CORRUGATED 10000001-4/EPA BROWNFIELD	1 CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	79
17	FEDBROWNFIELD	ALDEN CORRUGATED BOX MAB0001058148/EPA BROWNFIELD	1 CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	80

Environmental FirstSearch
Sites Summary Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

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17	FEDBROWNFIELD	ALDEN CORRUGATED 54308801-10004/EPA BROWNFIELD	1 CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	81
17	NFRAP	ALDEN CORRUGATED CONTAINER MA0001058148/NFRAP-N	ONE CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	82
17	RCRAGN	ISLAND TRANSPORTATION CO INC MAD985270073/SGN	1 CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	84
17	STATE	NO LOCATION AID 4-0014950/RAO	1 CHURCH ST NEW BEDFORD MA 02746	0.25 NW	+ 26	85
19	UST	MINIT MAN AUTO WASH 0-003382/REMOVED	2351 PURCHASE ST NEW BEDFORD MA 02746	0.25 NW	+ 15	86
18	RCRAGN	TREMBLAYS BUS INC MAD981885437/SGN	284 MYRTLE ST NEW BEDFORD MA 02746	0.25 SW	+ 40	87
18	UST	TREMBLAY S BUS CO INC 0-000706/IN USE	284 MYRTLE ST NEW BEDFORD MA 02746	0.25 SW	+ 40	88
18	UST	TREMBLAY BUS CO. 0-746348/UST	284 MYRTLE ST NEW BEDFORD MA 02746	0.25 SW	+ 40	89

Environmental FirstSearch
Sites Summary Report

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	ERNS	281 BROOKLAWN STREET NRC-885404/STORAGE TANK	281 BROOKLAWN ST NEW BEDFORD MA	NON GC	N/A	N/A
	FEDBROWNFIELD	PAYNE CUTLERY 69599021-13026/EPA BROWNFIELD	295 PHILLIPS AVE NEW BEDFORD MA 02746	NON GC	N/A	N/A
	FEDBROWNFIELD	PAYNE CUTLERY 13026/EPA BROWNFIELD	295 PHILLIPS AVE NEW BEDFORD MA 02746	NON GC	N/A	N/A
	LUST	NEAR BOAT HOUSE 4-0014741/RAO	E RODNEY FRENCH BLVD NEW BEDFORD MA	NON GC	N/A	N/A
	LUST	PARKER STREET WASTE SITE 4-0015685/URAM	HATHAWAY BLVD NEW BEDFORD MA	NON GC	N/A	N/A
	NFRAP	NEW BEDFORD HARBOR COAST GUARD REM MA2690390024/NFRAP-N	USCG SITE NEW BEDFORD MA	NON GC	N/A	N/A
	SPILLS	MAP 93 LOTS 167, 245 AND 262 4-0021889/RAONR	SOUTH OF SAWYER ST NEW BEDFORD MA 02746	NON GC	N/A	N/A
	SPILLS	NO LOCATION AID 4-0021893/UNCLSS	SOUTH OF SAWYERNORTH OF COG NEW BEDFORD MA 02746	NON GC	N/A	N/A
	STATE	NO LOCATION AID 4-0015776/ADQREG	NEW BEDFORD HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NEAR SEA FUELS 4-0016264/ADQREG	NEW BEDFOR HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	WALSH FIELD 4-0021407/TCLASS	PARKER ST and HUNTER ST NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	STEAMSHIP DOCK 4-0015624/ADQREG	RTE 6 NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NO LOCATION AID 4-0016002/ADQREG	NEW BEDFOR HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NO LOCATION AID 4-0017027/RAO	BLACKMER ST NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NO LOCATION AID 4-0020015/TIER1D	NEW BEDFORD HBR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NEW BEDFORD HARBOR 4-0015924/TIER1D	EGG ISLAND NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NEAR TWIN PIERS FMR 4-0017133/ADQREG	NEW BEDFORD HBR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	ASSESSORS PLOT 24 LOT 333 4-0019252/TIER1D	BONNEY ST NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NEAR FAIRHAVEN BRIDGE 4-0015599/ADQREG	NEW BEDFORD HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	MORSE TOOL 4-0010151/TIER1D	PLEASANT ST NEW BEDFORD MA	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

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NEW BEDFORD MA 02746

JOB: 73010

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	STATE	F/V RIANDA 4-0020665/TIER1D	FISH IS NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	F/V JUPITER 4-0016236/ADQREG	NEW BEDFOR HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	COAL POCKET PIER 4-0015767/ADQREG	NEW BEDFORD HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	CITY OF NEW BEDFORD 4-0017146/TIER1D	HERMAN MELVILLE BLVD NEW BEDFORD MA 02746	NON GC	N/A	N/A
	STATE	BETWEEN BUOY 1 AND 2 4-0012686/ADQREG	BUZZARDS BAY NEW BEDFORD MA	NON GC	N/A	N/A
	STATE	NEW BEDFORD HARBOR 4-0015581/ADQREG	NEW BEDFORD HARBOR NEW BEDFORD MA	NON GC	N/A	N/A
	SWL	ILLEGAL SITE DL0201.007/INACTIVE	1350 PHILIPS ROAD NEW BEDFORD MA	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-02746	UNKNOWN MA 02746	NON GC	N/A	N/A

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 46 **DIST/DIR:** 0.00 -- **ELEVATION:** 50 **MAP ID:** 1

NAME: DAWSON BREWERY
ADDRESS: 29 BROOK ST
NEW BEDFORD MA 02746
BRISTOL
CONTACT: CITY OF NEW BEDFORD
SOURCE: EPA

REV: 7/6/10
ID1: 69597431-15244
ID2: 15244
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

PROPERTY SIZE (acres): 0.79
PARCEL NUMBER: NEW BEDFORD ASSESSOR S MAP 92 LOT 148
CURRENT OWNER: CITY OF NEW BEDFORD
OWNERSHIP ENTITY: GOVERNMENT

MEDIA FOUND

SOIL: x
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

CONTAMINANTS CLEANED UP

PETROLEUM:
ASBESTOS:
VOC:
OTHER METAL:
OTHER:
NONE:
CONTROLLED SUB:
PCB:
LEAD:
PAHS:
UNKNOWN:

MEDIA CLEANED UP

SOIL:
SURFACE WATER:
DRINKING WATER:
UNKNOWN:
AIR:
GROUND WATER:
SEDIMENTS:
NONE:

STATE/TRIBAL PROG ID:
STATE/TRIBE PROG ENROLL:
NOT ENROLLED: Y
NFA ISSUE DATE:
IC REQUIRED: U
IC IN PLACE:
IC IN PLACE DATE:
PROPRIETARY CONTROLS:
GOVERNMENTAL CONTROLS:
ENFORCE PERM TOOLS:
INFORM DEVICES:
IC DATA ADDRESS:
PHOTO AVAIL: Y
VIDEO AVAIL: N

PROPERTY DESC/ FORMER USE: Brewery, tire storage, auto body shop

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 45 **DIST/DIR:** 0.00 -- **ELEVATION:** 50 **MAP ID:** 1

NAME: DAWSON BREWERY
ADDRESS: 29 BROOK ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: EPA

REV: 5/5/09
ID1: 69597431-1
ID2: 1
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 17 **DIST/DIR:** 0.09 SW **ELEVATION:** 55 **MAP ID:** 2

NAME: DACOSTA and SONS SUNOCO
ADDRESS: 397 SAWYER ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0019909
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C5 THRU C8 ALIPHATIC HYDROCARBONS 6800 PPB
MandP XYLENES 11000 PPB
C9 THRU C10 AROMATIC HYDROCARBONS 15000 PPB
C9 THRU C12 ALIPHATIC HYDROCARBONS 6500 PPB

SITE ACTIONS

LSP INVOLVED: RALPH TELLA

ACT DATE: 6/27/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/27/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/17/2006
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/17/2006
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/17/2006
ACT USE LIMITATION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 17 **DIST/DIR:** 0.09 SW **ELEVATION:** 55 **MAP ID:** 2

NAME: DACOSTA and SONS SUNOCO
ADDRESS: 397 SAWYER ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0019909
ID2:
STATUS: RAO
PHONE:

ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/26/2007
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/28/2007
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/8/2008
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 29 **DIST/DIR:** 0.09 SW **ELEVATION:** 55 **MAP ID:** 2

NAME: SUNOCO GAS STATION
ADDRESS: 397 SAWYER ST
NEW BEDFORD MA 02746
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003455
ID2: 5201
STATUS: IN USE
PHONE:

TOTAL NUMBER OF TANKS: 10

OWNER INFORMATION
OWNER NAME: MMRB CORPORATION
OWNER ADDRESS: 397 SAWYER ST
NEW BEDFORD MA 02740

FACILITY TYPE: GAS STATION
WORK PHONE: (508) 996-8438

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 10
TANK STATUS: IN USE
SERIAL NUMBER: P3105289
ABOVE GROUND: N
CAPACITY(GAL): 1000
CONTENTS: KEROSENE
USE:
TANK MATERIAL: CATHODIC
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 29 **DIST/DIR:** 0.09 SW **ELEVATION:** 55 **MAP ID:** 2

NAME: SUNOCO GAS STATION
ADDRESS: 397 SAWYER ST
NEW BEDFORD MA 02746
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003455
ID2: 5201
STATUS: IN USE
PHONE:

USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 3
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 4
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 5
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 550
CONTENTS: WASTE OIL
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 29 **DIST/DIR:** 0.09 SW **ELEVATION:** 55 **MAP ID:** 2

NAME: SUNOCO GAS STATION
ADDRESS: 397 SAWYER ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003455
ID2: 5201
STATUS: IN USE
PHONE:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 6
TANK STATUS: IN USE
SERIAL NUMBER: 113165
ABOVE GROUND: N
CAPACITY(GAL): 8000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: CATHODIC
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 7
TANK STATUS: IN USE
SERIAL NUMBER: 113174
ABOVE GROUND: N
CAPACITY(GAL): 8000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: CATHODIC
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 8
TANK STATUS: IN USE
SERIAL NUMBER: 113161
ABOVE GROUND: N
CAPACITY(GAL): 8000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: CATHODIC
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

ERNS

SEARCH ID: 9 **DIST/DIR:** 0.10 SE **ELEVATION:** 44 **MAP ID:** 3

NAME: UNKNOWN
ADDRESS: JEAN AND SAWYER ST
NEW BEDFORD MA 02746
BRISTOL
CONTACT:
SOURCE: EPA

REV: 1/28/99
ID1: 611405
ID2:
STATUS: HIGHWAY RELATED
PHONE:

SPILL INFORMATION

DATE OF SPILL: 1/28/99 **TIME OF SPILL:** 1200

PRODUCT RELEASED (1): OIL, MISC: MOTOR
QUANTITY (1): 1
UNITS (1): U

PRODUCT RELEASED (2):
QUANTITY (2):
UNITS (2):

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO **GROUNDWATER:** NO
LAND: NO **FIXED FACILITY:** NO
WATER: NO **OTHER:** NO
WATERBODY AFFECTED BY RELEASE: PAVEMENT

CAUSE OF RELEASE

DUMPING: NO **EQUIPMENT FAILURE:** NO
NATURAL PHENOMENON: NO **OPERATOR ERROR:** NO
OTHER CAUSE: NO **TRANSP. ACCIDENT:** NO
UNKNOWN: NO

ACTIONS TAKEN: NONE
RELEASE DETECTION: CALLER STATES OIL IS LEAKING FROM CAR IN STREET UNKNOWN
MISC. NOTES: CALLER CALLED LOCAL POLICE WITH NO RESPONSE/1/28/99 19:19 TRIED TO CALL REPORTING PARTY BACK PHONE WAS DISCONNECTED.

DISCHARGER INFORMATION

DISCHARGER ID: 611405
TYPE OF DISCHARGER: UNKNOWN
NAME OF DISCHARGER: UNKNOWN
ADDRESS: UNKNOWN
UNKNOWN

DUN and BRADSTREET :

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 16 **DIST/DIR:** 0.10 SW **ELEVATION:** 61 **MAP ID:** 4

NAME: BOILER ROOM AREA
ADDRESS: 1129 COUNTY ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0016367
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: DRUMS;
SITE DESCRIPTION:

CHEMICALS

6 FUEL OIL

SITE ACTIONS

LSP INVOLVED: NATHANIEL FINSNESS

ACT DATE: 7/12/2001
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 7/13/2001
ACT USE LIMITATION:
ACT STATUS: FLDD1U
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 7/18/2001
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 8/8/2001
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 9/10/2001

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 16 **DIST/DIR:** 0.10 SW **ELEVATION:** 61 **MAP ID:** 4

NAME: BOILER ROOM AREA
ADDRESS: 1129 COUNTY ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0016367
ID2:
STATUS: RAO
PHONE:

ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 9/18/2001
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 9/26/2001
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 11/7/2001
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 11/16/2001
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 11/16/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 6/15/2004
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 7/12/2005
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 16 **DIST/DIR:** 0.10 SW **ELEVATION:** 61 **MAP ID:** 4

NAME: BOILER ROOM AREA
ADDRESS: 1129 COUNTY ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0016367
ID2:
STATUS: RAO
PHONE:

BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 7/26/2005
ACT USE LIMITATION:
ACT STATUS: FLDD1A
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 10/21/2005
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 10/21/2005
ACT USE LIMITATION:
ACT STATUS: NAFNON
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 12/19/2005
ACT USE LIMITATION:
ACT STATUS: AFUCS
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 1/13/2006
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

ERNS

SEARCH ID: 10 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME:
ADDRESS: 79 BROOK ST
NEW BEDFORD MA 02746
CONTACT: BOULIS BRYAN
SOURCE: EPA

REV: 06-03-94
ID1: D41137
ID2:
STATUS: FAC UST
PHONE:

CERCLIS (Y/N):

MAT: TPH
QUANT: 1.00 UNKNOWN

LOCATION: 79 BROOK ST.
CITY: NEW BEDFORD MA 02746
REPORTED: 19940517

SOURCE: FAC UST
MEDIUM: LAND/WATER/GROUNDWAT

CAUSE: EQUIP FAILURE

ACT: ISSUED NPDES PERMIT EXCLUSION
BY: MASS DEP-DWPC

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

ERNS

SEARCH ID: 8 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP.
ADDRESS: 79 BROOK ST
NEW BEDFORD MA 02746
BRISTOL
CONTACT:
SOURCE: EPA

REV: 5/17/94
ID1: 426136
ID2:
STATUS: FIXED FAC./UST
PHONE:

SPILL INFORMATION

DATE OF SPILL: 5/17/94 **TIME OF SPILL:** 1015

PRODUCT RELEASED (1): TPH
QUANTITY (1): 1
UNITS (1): UNK

PRODUCT RELEASED (2): BTEX
QUANTITY (2): 1
UNITS (2): UNK

PRODUCT RELEASED (3):
QUANTITY (3):
UNITS (3):

MEDIUM/MEDIA AFFECTED

AIR: NO **GROUNDWATER:** NO
LAND: YES **FIXED FACILITY:** NO
WATER: NO **OTHER:** NO
WATERBODY AFFECTED BY RELEASE: NEW BEDFORD HARBOR

CAUSE OF RELEASE

DUMPING: NO **EQUIPMENT FAILURE:** NO
NATURAL PHENOMENON: NO **OPERATOR ERROR:** NO
OTHER CAUSE: NO **TRANSP. ACCIDENT:** YES
UNKNOWN: NO

ACTIONS TAKEN: ISSUED NPDES PERMIT EXCLUSION
RELEASE DETECTION:
MISC. NOTES:

DISCHARGER INFORMATION

DISCHARGER ID: 426136 **DUN and BRADSTREET :**
TYPE OF DISCHARGER: PRIVATE ENTERPRISE
NAME OF DISCHARGER: FAIRHAVEN TEXTILE CORP.
ADDRESS: 79 BROOK ST.
NEW BEDFORD MA 02746-

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 47 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: AUL
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: INDUSTRIAL,
SOURCE: UST; ABANDONED;
SITE DESCRIPTION:

CHEMICALS

6 FUEL OIL 12 INCH
6 FUEL OIL

SITE ACTIONS

LSP INVOLVED: ROBERT ATWOOD

ACT DATE: 5/3/1994
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NAFNVD
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/8/2001
ACT USE LIMITATION:
ACT STATUS: AFUCS
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 47 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: AUL
PHONE:

ACT DATE: 6/19/2001
ACT USE LIMITATION:
ACT STATUS: RTCLET
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 10/1/2002
ACT USE LIMITATION:
ACT STATUS: NAFNVD
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/22/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/3/1995
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/2/1994
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 9/6/1994
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 47 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: AUL
PHONE:

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 9/13/2002
ACT USE LIMITATION:
ACT STATUS: AUDIT INSPECTION
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/28/1994
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/22/1994
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/3/1995
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 8/11/2000
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/3/1994
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/17/1995
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/25/2001

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 34 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: INDUSTRIAL,
SOURCE: ABANDONED; UST;
SITE DESCRIPTION:

CHEMICALS

6 FUEL OIL 12 INCH
6 FUEL OIL

SITE ACTIONS

LSP INVOLVED: ROBERT ATWOOD

ACT DATE: 3/22/1994
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/22/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/28/1994
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/6/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 34 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/2/1994
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/3/1994
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/3/1994
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 9/6/1994
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/3/1995
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/3/1995
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/3/1995
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/17/1995
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 34 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: RAO
PHONE:

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 8/12/1999
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/27/2000
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 8/11/2000
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NAFNVD
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/8/2001

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 19 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: INDUSTRIAL,
SOURCE: ABANDONED; UST;
SITE DESCRIPTION:

CHEMICALS

6 FUEL OIL
6 FUEL OIL 12 INCH

SITE ACTIONS

LSP INVOLVED: ROBERT ATWOOD

ACT DATE: 3/22/1994
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/22/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/28/1994
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/6/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 19 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/2/1994
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/3/1994
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 5/3/1994
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 9/6/1994
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/3/1995
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/3/1995
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/3/1995
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/17/1995
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 19 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE CORP
ADDRESS: 79 BROOK ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010386
ID2:
STATUS: RAO
PHONE:

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 8/12/1999
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 4/27/2000
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 8/11/2000
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NAFNVD
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 3/8/2001

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 18 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE
ADDRESS: 79 BROOK ST
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0000989
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI: 7/15/1993
DELETED:
CONFIRMED:
REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION: SOIL RELEASE THREAT; GROUNDWATER RELEASE THREAT;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: NATHANIEL FINSNESS

TS DATE: 4/18/2000
AUL RESTRICTION:
LSP: NATHANIEL FINSNESS
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/16/2000
AUL RESTRICTION:
LSP: NATHANIEL FINSNESS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/16/2000
AUL RESTRICTION: NON
LSP: NATHANIEL FINSNESS
RA STATUS:
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

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Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 18 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE
ADDRESS: 79 BROOK ST
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0000989
ID2:
STATUS: RAO
PHONE:

ACT DATE: 7/15/1993
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/13/1999
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/1/2000
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/18/2000
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 5/16/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 5/16/2000
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/27/2004
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 22 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: PROPERTY
ADDRESS: 79 BROOK ST
NEW BEDFORD MA 02746
BRISTOL
CONTACT: MORAN, M
SOURCE: MA DEP

REV:
ID1: S90-0774
ID2:
STATUS: CLOSED
PHONE:

CASE CLOSED? YES
SPILL DATE:
SPILL TIME:
DATE REPORTED: 19901011
REPORT TIME: 02:00PM
SPILL NOTIFIER: BOB ATWOOD/RESOURCE CONTR
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: LEAK
MATERIAL SPILLED: 2 FUEL OIL
AMT RPTD SPILLED: UNKNOWN ----------
ACTUAL AMT SPILLED: UNKNOWN ----------
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
VIR/WASTE: VIRGIN
PCB LEVEL: NONE

ENVIRONMENTAL IMPACT:

LUST?: ---
SOIL CONTAMINATED?:
CONTRACTOR: NOT USED
PREPARE REPORT:
DAYS/CLOSE: 1

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 11 **DIST/DIR:** 0.12 NE **ELEVATION:** 53 **MAP ID:** 7

NAME: FAIRHAVEN TEXTILE
ADDRESS: 79 BROOK ST
NEW BEDFORD MA 02746
CONTACT:
SOURCE: MA DEP

REV: 1/29/01
ID1: 4-0000989
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

LTBI: 7/15/93
DELETED:
CONFIRMED:
REMOVED:

CATEGORY:
DATE: 7/15/93
PHASE: NO PHASE
21E STATUS: RAO
21E DATE: 5/16/00
HAZMAT TYPE: OIL

RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION: GROUNDWATER RELEASE THREAT; SOIL RELEASE THREAT;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 20000516 00:00:00
AUL RESTRICTION:
LSP: NATHANIEL FINSNESS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 20000516 00:00:00
AUL RESTRICTION: NON
LSP: NATHANIEL FINSNESS
RA STATUS:
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 20000418 00:00:00
AUL RESTRICTION:
LSP: NATHANIEL FINSNESS
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 39 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0001079
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI: 10/15/1991
DELETED:
CONFIRMED: 10/15/1991
REMOVED:

LOCATION TYPE:
SOURCE: UST; PIPE;
SITE DESCRIPTION: CONTAINED IN A LUST;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: DONALD MAGGIOLI

LSP INVOLVED: THOMAS WILLIAMSON

LSP INVOLVED: 8881

LSP INVOLVED: 7713

TS DATE: 10/2/1998
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2TRANS
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 39 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0001079
ID2:
STATUS: RAO
PHONE:

LSP: THOMAS WILLIAMSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/16/1991
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/16/1991
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: LSPFA
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 39 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0001079
ID2:
STATUS: RAO
PHONE:

RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/2/1998
ACT USE LIMITATION:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/14/2001
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/14/2001
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/14/2001
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/5/2001
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/7/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/7/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/27/2002

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 35 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: NO LOCATION AID
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0019176
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LOCATION TYPE:
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

GASOLINE 400 PPM

SITE ACTIONS

LSP INVOLVED: 7713

ACT DATE: 8/22/2005
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 4-0001079
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/2/1998
ACT USE LIMITATION:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/22/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/27/2005

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Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 35 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: NO LOCATION AID
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0019176
ID2:
STATUS: RAONR
PHONE:

ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 9/15/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

RCRAGN

SEARCH ID: 4 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: MOTIVA ENTERPRISES LLC
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740
BRISTOL
CONTACT: DAVID WEEKS
SOURCE: EPA

REV: 11/13/08
ID1: MAC300003522
ID2:
STATUS: SGN
PHONE: 4625225

SITE INFORMATION

CONTACT INFORMATION: DAVID WEEKS
MOTIVA ENTERPRISES LLC 520 ALLENS AVENUE BLDG 2
PROVIDENCE RI 029050000

PHONE: 4625225

UNIVERSE INFORMATION:

NAIC INFORMATION

44711 - GASOLINE STATIONS WITH CONVENIENCE STORES

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Ignitable waste
Benzene
Lead
Tetrachloroethylene
MA01
Trichloroethylene

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 21 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: NO LOCATION AID
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0019176
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LOCATION TYPE:
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

GASOLINE 400 PPM

SITE ACTIONS

LSP INVOLVED: 7713

ACT DATE: 8/22/2005
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 4-0001079
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/2/1998
ACT USE LIMITATION:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/22/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/27/2005

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 21 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: NO LOCATION AID
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0019176
ID2:
STATUS: RAONR
PHONE:

ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/22/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 9/15/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 23 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0001079
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI: 10/15/1991 **CONFIRMED:** 10/15/1991
DELETED: **REMOVED:**

LOCATION TYPE:
SOURCE: UST; PIPE;
SITE DESCRIPTION: CONTAINED IN A LUST;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: 7713

LSP INVOLVED: THOMAS WILLIAMSON

LSP INVOLVED: DONALD MAGGIOLI

LSP INVOLVED: 8881

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 23 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0001079
ID2:
STATUS: RAO
PHONE:

LSP: THOMAS WILLIAMSON
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 10/2/1998
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2TRANS
RAO CLASS:

ACT DATE: 7/16/1991
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/16/1991
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/8/1997
ACT USE LIMITATION:
ACT STATUS: LSPFA
ACT TYPE: TRANSITION REGULATIONS

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 23 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0001079
ID2:
STATUS: RAO
PHONE:

RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/2/1998
ACT USE LIMITATION:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/14/2001
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/14/2001
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/14/2001
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/5/2001
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/7/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/7/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/27/2002

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 15 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 6/19/02
ID1: 4-0001079
ID2:
STATUS: REMOPS
PHONE:

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). 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 categoricallyTier 2 sites.

LTBI: 10/15/1991
DELETED:

CONFIRMED: 10/15/1991
REMOVED:

CATEGORY: NONE
DATE: 7/16/1991
PHASE: PHASE IV

21E STATUS: TIER 2
21E DATE: 8/8/1997
HAZMAT TYPE:

RAO CLASS:

LOCATION TYPE:
SOURCE: UST;
SITE DESCRIPTION: CONTAINED IN A LUST;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE

SITE ACTIONS

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 10/2/1998
AUL RESTRICTION:

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 15 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02746
CONTACT:
SOURCE: MA DEP

REV: 6/19/02
ID1: 4-0001079
ID2:
STATUS: REMOPS
PHONE:

LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2TRANS
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEI: PHASE I
RAO CLASS:

ACT DATE: 12/07/2001
ACT USE LIMITATION:
LSP: DONALD MAGGIOLI
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHSIII: PHASE III
RAO TYPE:

ACT DATE: 12/07/2001
ACT USE LIMITATION:
LSP: DONALD MAGGIOLI
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASII: PHASE II
RAO TYPE:

ACT DATE: 10/02/1998
ACT USE LIMITATION:
LSP:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 08/08/1997
ACT USE LIMITATION:
LSP:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 02/27/2002
ACT USE LIMITATION:
LSP: DONALD MAGGIOLI
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASIV: PHASE IV
RAO TYPE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 15 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: SHELL SERVICE STATION
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 6/19/02
ID1: 4-0001079
ID2:
STATUS: REMOPS
PHONE:

ACT DATE: 07/16/1991
ACT USE LIMITATION:
LSP:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO TYPE:

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 32 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: YAHYA GAS CORP DBA STOP and SAVE
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003471
ID2: 5201
STATUS: IN USE
PHONE:

TOTAL NUMBER OF TANKS: 6

OWNER INFORMATION
OWNER NAME: HATEM ENT LLC
OWNER ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02745

FACILITY TYPE: GAS STATION
WORK PHONE: (508) 759-6890

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 6000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: REINFORCED
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 2
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 6000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: REINFORCED
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 3
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 6000
CONTENTS: GASOLINE

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 32 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: YAHYA GAS CORP DBA STOP and SAVE
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003471
ID2: 5201
STATUS: IN USE
PHONE:

USE: MV
TANK MATERIAL: REINFORCED
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 4
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 6000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: REINFORCED
TANK TYPE: 1 WALL
LEAK DETECTION: Approved In-Tank Monitor

PIPE MATERIAL: REINFORCED
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

TANK NUMBER: 5
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 15000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: REINFORCED
TANK TYPE: 2 WALLS
LEAK DETECTION: Interstitial Monitoring

PIPE MATERIAL: FLEXIBLE
PIPE TYPE: 2 WALLS
LEAK DETECTION: Interstitial Space Monitor

TANK NUMBER: 6
TANK STATUS: IN USE
SERIAL NUMBER: Split
ABOVE GROUND: N
CAPACITY(GAL): 8000
CONTENTS: GASOLINE/D
USE: MV
TANK MATERIAL: REINFORCED
TANK TYPE: 2 WALLS
LEAK DETECTION: Interstitial Monitoring

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 32 **DIST/DIR:** 0.12 SE **ELEVATION:** 44 **MAP ID:** 6

NAME: YAHYA GAS CORP DBA STOP and SAVE
ADDRESS: 129 ASHLEY BLVD
NEW BEDFORD MA 02740

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003471
ID2: 5201
STATUS: IN USE
PHONE:

PIPE MATERIAL: FLEXIBLE
PIPE TYPE: 2 WALLS
LEAK DETECTION: Interstitial Space Monitor

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

RCRAGN

SEARCH ID: 2 **DIST/DIR:** 0.12 SW **ELEVATION:** 46 **MAP ID:** 5

NAME: INTERSTATE BRANDS
ADDRESS: 2185 PURCHASE ST
NEW BEDFORD MA 02746

CONTACT: J-C DILUNA
SOURCE: EPA

REV: 8/8/01
ID1: MAD162129506
ID2:
STATUS: SGN
PHONE: 5086552150

SITE INFORMATION

CONTACT INFORMATION: J-C DILUNA
FLEET MGR
330 SPEEN ST
NATICK MA 01760

PHONE: 5086552150

UNIVERSE NAME:

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

0205 -

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 24-JAN-91
TYPE: 120 - WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001 **RESPONSIBLE:** S - STATE
DETERMINED: 16-JAN-91 **DETERMINED BY:** S - STATE
CITATION: **RESOLVED:** 20-MAR-91
TYPE: GER - GENERATOR ALL REQUIREMENTS

VIOLATION NUMBER: 0002 **RESPONSIBLE:** S - STATE
DETERMINED: 16-JAN-91 **DETERMINED BY:** S - STATE
CITATION: **RESOLVED:**
TYPE: GER - GENERATOR ALL REQUIREMENTS

VIOLATION NUMBER: 0003 **RESPONSIBLE:** S - STATE
DETERMINED: 16-JAN-91 **DETERMINED BY:** S - STATE
CITATION: **RESOLVED:**
TYPE: GER - GENERATOR ALL REQUIREMENTS

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 20 **DIST/DIR:** 0.12 SW **ELEVATION:** 60 **MAP ID:** 8

NAME: MILL BUILDING WAREHOUSE
ADDRESS: 419 SAWYER ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018186
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:
CONFIRMED:
REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: AST;
SITE DESCRIPTION:

CHEMICALS

4 OIL 20 GAL

SITE ACTIONS

LSP INVOLVED: NATHANIEL FINSNESS

ACT DATE: 12/22/2003
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 12/22/2003
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 12/22/2003
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 1/6/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 2/2/2004

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

SPILLS

SEARCH ID: 20 **DIST/DIR:** 0.12 SW **ELEVATION:** 60 **MAP ID:** 8

NAME: MILL BUILDING WAREHOUSE
ADDRESS: 419 SAWYER ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018186
ID2:
STATUS: RAO
PHONE:

ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 2/10/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 3/12/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 3/12/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 4/20/2004
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 4/20/2004
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 4/27/2004
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 25 **DIST/DIR:** 0.12 SW **ELEVATION:** 46 **MAP ID:** 5

NAME: CONTINENTAL BAKING CO
ADDRESS: 2185 PURCHASE ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003381
ID2: 5201
STATUS: REMOVED
PHONE:

TOTAL NUMBER OF TANKS: 2

OWNER INFORMATION

OWNER NAME: CONTINENTAL BAKING CO
OWNER ADDRESS: 330 SPEEN ST
NATICK MA 01760

FACILITY TYPE: TRUCK/TRANSPORT
WORK PHONE: (508) 655-2150

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 6000
CONTENTS: DIESEL
USE:
TANK MATERIAL: STEEL
TANK TYPE: 1 WALL
LEAK DETECTION: Inventory Record-Keeping

PIPE MATERIAL: STEEL
PIPE TYPE: 1 WALL
LEAK DETECTION:

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 5000
CONTENTS: DIESEL
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 26 **DIST/DIR:** 0.15 SE **ELEVATION:** 41 **MAP ID:** 10

NAME: FIDELIO MONTROND
ADDRESS: 121 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003464
ID2: 5201
STATUS: REMOVED
PHONE:

TOTAL NUMBER OF TANKS: 5

OWNER INFORMATION
OWNER NAME: FIDELIO MONTROND
OWNER ADDRESS: 137 CEDAR ST
NEW BEDFORD MA 02746

FACILITY TYPE: OTHER
WORK PHONE: (617) 996-3393

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 2000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 2000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 3
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 2000
CONTENTS: GASOLINE

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 26 **DIST/DIR:** 0.15 SE **ELEVATION:** 41 **MAP ID:** 10

NAME: FIDELIO MONTROND
ADDRESS: 121 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003464
ID2: 5201
STATUS: REMOVED
PHONE:

USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 4
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 3000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 5
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 3000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 33 **DIST/DIR:** 0.15 SW **ELEVATION:** 46 **MAP ID:** 9

NAME: CLEAN RENTALS INC
ADDRESS: 1066 COUNTY ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0014300
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

DIESEL FUEL 200 PPM
GASOLINE 200 PPM

SITE ACTIONS

LSP INVOLVED: PAUL MCMANUS

ACT DATE: 10/29/1998
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/29/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/6/1998
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/8/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 33 **DIST/DIR:** 0.15 SW **ELEVATION:** 46 **MAP ID:** 9

NAME: CLEAN RENTALS INC
ADDRESS: 1066 COUNTY ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0014300
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/20/1999
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/24/1999
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/25/1999
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/29/1999
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/2/1999
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/21/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 24 **DIST/DIR:** 0.15 SW **ELEVATION:** 46 **MAP ID:** 9

NAME: CLEAN RENTALS
ADDRESS: 1066 COUNTRY ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-008420
ID2: 5201
STATUS: REMOVED
PHONE:

TOTAL NUMBER OF TANKS: 5

OWNER INFORMATION

OWNER NAME: CLEAN RENTALS INC
OWNER ADDRESS: 1066 COUNTRY ST
NEW BEDFORD MA 02746

FACILITY TYPE: INDUSTRIAL
WORK PHONE: (508) 996-3333

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: DIESEL
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE: PRESSURE
LEAK DETECTION:

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: DIESEL
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE: PRESSURE
LEAK DETECTION:

TANK NUMBER: 3
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: DIESEL

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 24 **DIST/DIR:** 0.15 SW **ELEVATION:** 46 **MAP ID:** 9

NAME: CLEAN RENTALS
ADDRESS: 1066 COUNTRY ST
NEW BEDFORD MA 02746
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-008420
ID2: 5201
STATUS: REMOVED
PHONE:

USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE: PRESSURE
LEAK DETECTION:

TANK NUMBER: 4
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE: PRESSURE
LEAK DETECTION:

TANK NUMBER: 5
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE: PRESSURE
LEAK DETECTION:

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 38 **DIST/DIR:** 0.16 NE **ELEVATION:** 56 **MAP ID:** 11

NAME: SAINT ANTHONY S OF PADAUA
ADDRESS: 190 ASHLEY BLVD
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018201
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:
CONFIRMED:
REMOVED:

LOCATION TYPE: SCHOOL,
SOURCE: UST; PIPE;
SITE DESCRIPTION:

CHEMICALS

2 FUEL OIL

SITE ACTIONS

LSP INVOLVED: RALPH TELLA

LSP INVOLVED: RONALD BUKOSKI

ACT DATE: 12/29/2003
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/29/2003
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/29/2003
ACT USE LIMITATION:
ACT STATUS: FLDD1A
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/30/2003
ACT USE LIMITATION:
ACT STATUS: FLDISS
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 38 **DIST/DIR:** 0.16 NE **ELEVATION:** 56 **MAP ID:** 11

NAME: SAINT ANTHONY S OF PADAUA
ADDRESS: 190 ASHLEY BLVD
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018201
ID2:
STATUS: RAO
PHONE:

ACT DATE: 1/9/2004
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/20/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/8/2004
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/30/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 38 **DIST/DIR:** 0.16 NE **ELEVATION:** 56 **MAP ID:** 11

NAME: SAINT ANTHONY S OF PADAUA
ADDRESS: 190 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018201
ID2:
STATUS: RAO
PHONE:

ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 14 **DIST/DIR:** 0.16 NE **ELEVATION:** 56 **MAP ID:** 11

NAME: SAINT ANTHONY S OF PADAUA
ADDRESS: 190 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 9/29/09
ID1: 4-0018201
ID2:
STATUS: TIERII
PHONE:

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). 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 categoricallyTier 2 sites.

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). 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 categoricallyTier 2 sites.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: SCHOOL,
SOURCE: PIPE; UST;
SITE DESCRIPTION:

CHEMICALS

2 FUEL OIL

SITE ACTIONS

LSP INVOLVED: RALPH TELLA

LSP INVOLVED: RONALD BUKOSKI

ACT DATE: 12/29/2003
ACT USE LIMITATION:
ACT STATUS: FLDD1A
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 12/29/2003
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/29/2003
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/30/2003
ACT USE LIMITATION:
ACT STATUS: FLDISS
ACT TYPE: NOTICE OF RESPONSIBILITY

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 14 **DIST/DIR:** 0.16 NE **ELEVATION:** 56 **MAP ID:** 11

NAME: SAINT ANTHONY S OF PADAUA
ADDRESS: 190 ASHLEY BLVD
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 9/29/09
ID1: 4-0018201
ID2:
STATUS: TIERII
PHONE:

RAO CLASS:

ACT DATE: 1/9/2004
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 1/20/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/1/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/8/2004
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/30/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 14 **DIST/DIR:** 0.16 NE **ELEVATION:** 56 **MAP ID:** 11

NAME: SAINT ANTHONY S OF PADAUA
ADDRESS: 190 ASHLEY BLVD
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 9/29/09
ID1: 4-0018201
ID2:
STATUS: TIERII
PHONE:

ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/19/2004
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 12/22/2004
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/27/2004
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

RCRAGN

SEARCH ID: 6 **DIST/DIR:** 0.17 NW **ELEVATION:** 59 **MAP ID:** 12

NAME: TIBBETTS ENGINEERING CORP
ADDRESS: 210 DEANE ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: MAD019519867
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: FRED TIBBETTS
210 DANE ST
NEW BEDFORD MA 02746

PHONE: 5089965633

UNIVERSE INFORMATION:

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

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; a
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

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 49 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0013556
ID2:
STATUS: AUL
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

PETROLEUM 250 PPM

SITE ACTIONS

LSP INVOLVED: JOSEPH LANDYN

LSP INVOLVED: PAUL MCMANUS

LSP INVOLVED: MICHAEL GEISSER

LSP INVOLVED: N/A

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: AFUCS
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/6/2007
ACT USE LIMITATION:

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 49 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0013556
ID2:
STATUS: AUL
PHONE:

ACT STATUS: AFUPLN
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/25/2002
ACT USE LIMITATION:
ACT STATUS: NAFNON
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/7/2007
ACT USE LIMITATION:
ACT STATUS: NAFNON
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/6/2001
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/1/2002
ACT USE LIMITATION:
ACT STATUS: RTCLET
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/6/2007
ACT USE LIMITATION:
ACT STATUS: ACTION STATUS OR AUL TERMINATED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/26/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/23/1998
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 49 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0013556
ID2:
STATUS: AUL
PHONE:

ACT DATE: 12/13/1999
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/21/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/26/2003
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/18/2007
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/31/1997
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/7/2004
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/27/2004
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/7/2007
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 36 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0013556
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

PETROLEUM 250 PPM

SITE ACTIONS

LSP INVOLVED: PAUL MCMANUS

LSP INVOLVED: MICHAEL GEISSER

LSP INVOLVED: N/A

LSP INVOLVED: JOSEPH LANDYN

ACT DATE: 12/16/1997
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/31/1997
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/21/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/23/1998
ACT USE LIMITATION:

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 36 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0013556
ID2:
STATUS: RAO
PHONE:

ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/10/1999
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/1/1999
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/2/1999
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/13/1999
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/20/2000
ACT USE LIMITATION:
ACT STATUS: FEE NOT REQUIRED-FEE CREDITED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/6/2001
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/6/2001
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 36 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0013556
ID2:
STATUS: RAO
PHONE:

ACT DATE: 12/6/2001
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/25/2002
ACT USE LIMITATION:
ACT STATUS: NAFNON
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: AFUCS
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/1/2002
ACT USE LIMITATION:
ACT STATUS: RTCLET

- More Details Exist For This Site; Max Page Limit Reached -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 13 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 6/10/04
ID1: 4-0013556
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). 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 categoricallyTier 2 sites.

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

PETROLEUM BASED OIL 250 PPM

SITE ACTIONS

ACT DATE: 11/26/2003
ACT USE LIMITATION:
LSP: MICHAEL GEIS
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 1/21/1998
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 7/18/2002
ACT USE LIMITATION:
LSP: THEODORE KAE
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 2/23/1998
ACT USE LIMITATION:
LSP: PAUL MCMANUS
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/6/2001
ACT USE LIMITATION: NONE

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 13 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: NO LOCATION AID
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA 02746
CONTACT:
SOURCE: MA DEP

REV: 6/10/04
ID1: 4-0013556
ID2:
STATUS: RAO
PHONE:

LSP: PAUL MCMANUS
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/16/1997
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 7/18/2002
ACT USE LIMITATION:
LSP: THEODORE KAE
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 27 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: HI-LO GAS
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003410
ID2: 5201
STATUS: IN USE
PHONE:

TOTAL NUMBER OF TANKS: 5

OWNER INFORMATION
OWNER NAME: MALEK S PETROLEUM INC
OWNER ADDRESS: 116 ASHELY BLVD
NEW BEDFORD MA 02746

FACILITY TYPE: GAS STATION
WORK PHONE: (508) 759-6890

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 3000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 3
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 4000
CONTENTS: GASOLINE

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 27 **DIST/DIR:** 0.17 SE **ELEVATION:** 38 **MAP ID:** 13

NAME: HI-LO GAS
ADDRESS: 116 ASHLEY BLVD
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003410
ID2: 5201
STATUS: IN USE
PHONE:

USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 4
TANK STATUS: IN USE
SERIAL NUMBER: 17027
ABOVE GROUND: N
CAPACITY(GAL): 6000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: COMPOSITE
TANK TYPE: 2 WALLS
LEAK DETECTION: Interstitial Monitoring

PIPE MATERIAL: FLEXIBLE
PIPE TYPE: 2 WALLS
LEAK DETECTION: Interstitial Space Monitor

TANK NUMBER: 5
TANK STATUS: IN USE
SERIAL NUMBER: 8268
ABOVE GROUND: N
CAPACITY(GAL): 8000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: COMPOSITE
TANK TYPE: 2 WALLS
LEAK DETECTION: Interstitial Monitoring

PIPE MATERIAL: FLEXIBLE
PIPE TYPE: 2 WALLS
LEAK DETECTION: Interstitial Space Monitor

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 37 **DIST/DIR:** 0.18 SW **ELEVATION:** 52 **MAP ID:** 14

NAME: REAR PARKING LOT
ADDRESS: 14 ADAMS ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010014
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LTBI:
DELETED:

CONFIRMED:
REMOVED:

LOCATION TYPE: RESIDNTIAL,
SOURCE: PIPE; UST;
SITE DESCRIPTION:

CHEMICALS

2 FUEL OIL
FUEL OIL 2 15 GAL

SITE ACTIONS

LSP INVOLVED: N/A

ACT DATE: 10/8/1993
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/8/1993
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/14/1993
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/27/1993
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

LUST

SEARCH ID: 37 **DIST/DIR:** 0.18 SW **ELEVATION:** 52 **MAP ID:** 14

NAME: REAR PARKING LOT
ADDRESS: 14 ADAMS ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0010014
ID2:
STATUS: RAO
PHONE:

ACT DATE: 10/29/1993
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/26/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/8/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/24/1997
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/25/1997
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/21/1997
ACT USE LIMITATION:
ACT STATUS: FEE NOT REQUIRED-FEE CREDITED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 48 **DIST/DIR:** 0.22 NW **ELEVATION:** 70 **MAP ID:** 15

NAME: NO LOCATION AID
ADDRESS: 2307 PURCHASE ST
NEW BEDFORD MA

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018572
ID2:
STATUS: AUL
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C5 THRU C8 ALIPHATIC HYDROCARBONS 490 PPM
2-METHYLNAPHTHALENE 10 PPM
C11 THRU C22 AROMATIC HYDROCARBONS
NAPHTHALENE 13 PPM

SITE ACTIONS

LSP INVOLVED: NATHANIEL FINSNESS

ACT DATE: 11/23/2004
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 5/13/2009
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: B2 - 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.

ACT DATE: 11/23/2004
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B2 - 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.

ACT DATE: 10/15/2009
ACT USE LIMITATION:
ACT STATUS: NAFNON
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: B2 - 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.

ACT DATE: 5/1/2009
ACT USE LIMITATION:

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 48 **DIST/DIR:** 0.22 NW **ELEVATION:** 70 **MAP ID:** 15

NAME: NO LOCATION AID
ADDRESS: 2307 PURCHASE ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018572
ID2:
STATUS: AUL
PHONE:

ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: B2 - 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.

ACT DATE: 11/17/2004
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 1/8/2010
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 12/18/2009
ACT USE LIMITATION:
ACT STATUS: ACTION STATUS OR AUL TERMINATED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 12/18/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 10/15/2009
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B2 - 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.

ACT DATE: 7/22/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: B2 - 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.

ACT DATE: 7/22/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: B2 - 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.

- Continued on next page -

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

INSTCONTROL

SEARCH ID: 48 **DIST/DIR:** 0.22 NW **ELEVATION:** 70 **MAP ID:** 15

NAME: NO LOCATION AID
ADDRESS: 2307 PURCHASE ST
NEW BEDFORD MA
CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 4-0018572
ID2:
STATUS: AUL
PHONE:

ACT DATE: 12/21/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 1/4/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS: B2 - 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.

ACT DATE: 12/18/2009
ACT USE LIMITATION:
ACT STATUS: AFUCS
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS: B2 - 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.

ACT DATE: 1/5/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B2 - 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.

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

RCRAGN

SEARCH ID: 5 **DIST/DIR:** 0.24 SE **ELEVATION:** 30 **MAP ID:** 16

NAME: RITE AID PHARMACY 10209
ADDRESS: 1207 ACUSHNET AVE
NEW BEDFORD MA 02745

CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: MAR000013581
ID2:
STATUS: SGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: BRIAN HUART
1207 ACUSHNET AVE
NEW BEDFORD MA 02745

PHONE: 4018253948

UNIVERSE INFORMATION:

NAIC INFORMATION

81292 - PHOTOFINISHING

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Silver

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 40 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED
ADDRESS:
NEW BEDFORD MA
CONTACT:
SOURCE:

REV: 4/16/07
ID1: 54308801-18
ID2: 54308801
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

EPA ID:
EPA SITE NAME:
SITE ALIAS:
CONTAMINANTS:
TOTAL ACRES:
CERCLA WASTELAN:
RCRA FACILITY:
AIR AFFECTED:
GROUNDWATER AFFECTED:
SURFACE WATER AFFECTED:
NUMBER OF PARCELS:
LOCAL PARCEL NUMBER:
ADD DATE: 4/19/2005 4:58:55 PM

COMMENTS: PARCEL KEY MEASURE DESCRIPTIONS The Pilot reported a Pilot-funded assessment was completed on the Alden Corrugated property. (E-mail from Scott Alfonse, City of New Bedford, 8/17/04) The Pilot reported $1 million was leveraged from the City of Bedford for cleanup of the Alden Corrugated and Standard Times Field Lots 1B and 2 properties. (E-mail from Scott Alfonse, City of New Bedford, 8/17/04) Cleanup was completed at the former Alden Corrugated property, wherein one parcel will undergo additional assessment activities, the second parcel was sold to an adjacent health club, and the third parcel has been sold to a local specialty produce business to build a greenhouse. (Success Story, April 2004)

COMMENTS: PARCEL ACCOMPLISHMENTS A QAPP for the Alden Corrugated property was approved in March of 2001. (Table provided by Diane Kelley, EPA Region 1, 6/21/01) The final QAPP was approved on June 6, 2001. The Pilot submitted a Scope of Work for Phase I Environmental Assessment to the city. Cygnus advanced soil borings which were completed as monitoring wells. Soil and groundwater samples were collected and analyzed. (QR 15, 4/1/01-6/30/01) Cygnus prepared a draft Phase I Initial Site Investigation and Tier Classification, dated September 19, 2001, for the entire property. (QR 16, 7/1/01-9/30/01)

COMMENTS: PRE/NON-PILOT PARCEL ACCOMPLISHMENTS

COMMENTS: LEVERAGED PARCEL ACCOMPLISHMENTS/RESOURCES

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 43 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED
ADDRESS: 1 CHURCH ST
NEW BEDFORD MA 02746
BRISTOL
CONTACT:
SOURCE: EPA

REV: 8/6/09
ID1: 10000001-10004
ID2: 10004
STATUS: EPA BROWNFIELD/ACRES
PHONE:

ALIAS:
EPA FRS ID: 0103024
FRS SITE NAME: ALDEN CORRUGATED
PROPERTY SIZE (ACRES): 0
LOCAL PARCEL NUMBER:
FORMER USE:
CURRENT USE:
FUTURE USE:
CURRENT OWNER:
OWNERSHIP CHANGE: NO
OWNERSHIP LIABILITY FACTOR:
CLEANUP REQUIRED: UNKNOWN
CLEANUP REQUIRED DATE:
STATE/TRIBAL ENROLL ID:
STATE/TRIBAL ENROLL DATE:
PROPERT NOT ENROLLED:
NFA ISSUE DATE:
IC REQUIRED: UNKNOWN
IC REQUIRED DATE:
IC DATA ADDRESS:
PROP CONTROLS:
GOVT CONTROLS:
PERMIT TOOLS:
INFO DEVICES:
WASTELAND INDICATOR:
RCRA INDICATOR:

SITE INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 42 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED
ADDRESS: 1 CHURCH ST
NEW BEDFORD MA 00000
BRISTOL
CONTACT:
SOURCE: EPA

REV: 10/1/08
ID1: 10000001-4
ID2: 10000001
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

EPA ID: 0103024
EPA SITE NAME: ALDEN CORRUGATED
SITE ALIAS:
CONTAMINANTS:
TOTAL ACRES:
CERCLA WASTELAN:
RCRA FACILITY:
AIR AFFECTED:
GROUNDWATER AFFECTED:
SURFACE WATER AFFECTED:
NUMBER OF PARCELS:
LOCAL PARCEL NUMBER:
ADD DATE: 3/7/2005 12:27:35 PM

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 44 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED BOX
ADDRESS: 1 CHURCH ST
NEW BEDFORD MA 02746

CONTACT: JAMES BYRNE
SOURCE:

REV: 5/3/05
ID1: MAB0001058148
ID2: 0102781 OR 0103024
STATUS: EPA BROWNFIELD
PHONE: 617-918-1389

DETAILS NOT AVAILABLE

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

FEDBROWNFIELD

SEARCH ID: 41 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED
ADDRESS: 1 CHURCH ST
NEW BEDFORD MA 02746
CONTACT:
SOURCE: EPA

REV: 7/6/10
ID1: 54308801-10004
ID2: 10004
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

PROPERTY SIZE (acres): 0
PARCEL NUMBER:
CURRENT OWNER:
OWNERSHIP ENTITY:

MEDIA FOUND

SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

CONTAMINANTS CLEANED UP

PETROLEUM:
ASBESTOS:
VOC:
OTHER METAL:
OTHER:
NONE:
CONTROLLED SUB:
PCB:
LEAD:
PAHS:
UNKNOWN:

MEDIA CLEANED UP

SOIL:
SURFACE WATER:
DRINKING WATER:
UNKNOWN:
AIR:
GROUND WATER:
SEDIMENTS:
NONE:

STATE/TRIBAL PROG ID:
STATE/TRIBE PROG ENROLL:
NOT ENROLLED:
NFA ISSUE DATE:
IC REQUIRED: U
IC IN PLACE: U
IC IN PLACE DATE:
PROPRIETARY CONTROLS:
GOVERNMENTAL CONTROLS:
ENFORCE PERM TOOLS:
INFORM DEVICES:
IC DATA ADDRESS:
PHOTO AVAIL:
VIDEO AVAIL:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

NFRAP

SEARCH ID: 1 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED CONTAINER
ADDRESS: ONE CHURCH ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: EPA

REV: 7/2/10
ID1: MA0001058148
ID2: 0102781
STATUS: NFRAP-N
PHONE:

DESCRIPTION:
FORMER CORRUGATED BOX MANUFACTURING PLANT.

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
DD	Federal Enforcement Primary		10/7/1996
ARCHIVE SITE	EPA In-House		11/7/1996
ARCHIVE SITE	EPA In-House		11/7/1996
Public Notice Published	EPA Fund-Financed		5/4/1995
Public Notice Published	EPA Fund-Financed		
ARCHIVE SITE	EPA In-House		
Public Notice Published	EPA Fund-Financed		5/4/1995
MO	EPA Fund-Financed		3/7/1995
AM	EPA Fund-Financed		3/13/1995
DC	EPA Fund-Financed		3/13/1995
KB	EPA Fund-Financed		2/24/1995
ARCHIVE SITE	EPA In-House		11/7/1996
Public Notice Published	EPA Fund-Financed		5/4/1995
ADMINISTRATIVE RECORDS	EPA Fund-Financed		
ADMIN RECORD COMPILED FOR A REMOVAL EVENT		Primary	
NON-NPL PRP SEARCH	Federal Enforcement Primary	19-95-3/6/	10/7/1996
NON-NPL PRP SEARCH	Federal Enforcement Primary		
NON-NPL PRP SEARCH	Federal Enforcement Primary	19-95-3/6/	10/7/1996

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

NFRAP

SEARCH ID: 1 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ALDEN CORRUGATED CONTAINER
ADDRESS: ONE CHURCH ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: EPA

REV: 7/2/10
ID1: MA0001058148
ID2: 0102781
STATUS: NFRAP-N
PHONE:

NON-NPL PRP SEARCH	Federal Enforcement Primary		10/7/1996
REMOVAL CLEANED UP	EPA Fund-Financed Primary	19-95-3/6/	7/6/1995
REMOVAL	EPA Fund-Financed Primary		
REMOVAL CLEANED UP	EPA Fund-Financed Primary	19-95-3/6/	7/6/1995
REMOVAL CLEANED UP	EPA Fund-Financed Primary		7/6/1995

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

RCRAGN

SEARCH ID: 3 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: ISLAND TRANSPORTATION CO INC
ADDRESS: 1 CHURCH ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: MAD985270073
ID2:
STATUS: SGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: SHERMAN COBB
PO BOX A 993
NEW BEDFORD MA 02740

PHONE: 5089931720

UNIVERSE INFORMATION:

NAIC INFORMATION

48411 - GENERAL FREIGHT TRUCKING, LOCAL

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

STATE

SEARCH ID: 12 **DIST/DIR:** 0.25 NW **ELEVATION:** 76 **MAP ID:** 17

NAME: NO LOCATION AID
ADDRESS: 1 CHURCH ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 3/12/04
ID1: 4-0014950
ID2:
STATUS: RAO
PHONE:

SITE INFORMATION

STATUS: RAO - (Response Action Outcome): a site/release where an RAO statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

CATEGORY: 120 DY
DATE: 8/19/1999
PHASE:

21E STATUS: RAO
21E DATE: 2/26/2004
HAZMAT TYPE: OIL AND HAZARDOUS MATERIAL

RAO CLASS: A2 - A PERMANENT SOLUTION

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

LEAD 1700 PPM
TOTAL PETROLEUM HYDROCARBONS (TPH) 2100 PPM

SITE ACTIONS

ACT DATE: 2/26/2004
ACT USE LIMITATION: NONE
LSP: RALPH TELLA
ACT STATUS: RAORCD
ACT TYPE: RAO STATEMENT RECEIVED
RAO TYPE: A2 - A PERMANENT SOLUTION HAS

ACT DATE: 8/19/1999
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORT
ACT TYPE: REPORTABLE RELEASE UNDER MGL 2
RAO TYPE:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 28 **DIST/DIR:** 0.25 NW **ELEVATION:** 65 **MAP ID:** 19

NAME: MINIT MAN AUTO WASH
ADDRESS: 2351 PURCHASE ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-003382
ID2: 5201
STATUS: REMOVED
PHONE:

TOTAL NUMBER OF TANKS: 2

OWNER INFORMATION
OWNER NAME: MADELEINE STYKOWSKI
OWNER ADDRESS: 7 DEAN ST
DARTMOUTH MA 02747

FACILITY TYPE: OTHER
WORK PHONE: (617) 994-2535

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 10000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 10000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

RCRAGN

SEARCH ID: 7 **DIST/DIR:** 0.25 SW **ELEVATION:** 90 **MAP ID:** 18

NAME: TREMBLAYS BUS INC
ADDRESS: 284 MYRTLE ST
NEW BEDFORD MA 02746
CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: MAD981885437
ID2:
STATUS: SGN
PHONE:

CT MANIFEST INFORMATION

MANIFEST ID	SHIPPED	TSD ID	TRANS ID	QTY	MATERIAL
CTF0895835	01/10/2000	CTD021816889	CTD021816889	0005 G	FLAMMABLE LIQUID N.O.S.
CTF0924086	02/23/2000	CTD021816889	CTD021816889	0005 G	FLAMMABLE LIQUID N.O.S.
CTF0965009	03/21/2000	CTD021816889	CTD021816889	0005 G	FLAMMABLE LIQUID N.O.S.
MAM710167	09/20/2001	CTD021816889	CTD021816889	0046 G	COMBUSTIBLE LIQUID N.O.S.(NA)

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 31 **DIST/DIR:** 0.25 SW **ELEVATION:** 90 **MAP ID:** 18

NAME: TREMBLAY S BUS CO INC
ADDRESS: 284 MYRTLE ST
NEW BEDFORD MA 02746

CONTACT:
SOURCE: MA DEP

REV: 5/7/10
ID1: 0-000706
ID2: 5201
STATUS: IN USE
PHONE:

TOTAL NUMBER OF TANKS: 2

OWNER INFORMATION

OWNER NAME: TREMBLY BUS CO
OWNER ADDRESS: 284 MYRTLE ST
NEW BEDFORD MA 02746

FACILITY TYPE: TRUCK/TRANSPORT
WORK PHONE: (508) 999-6436

TANK INFORMATION

TANK NUMBER: 1
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 10000
CONTENTS: GASOLINE
USE: MV
TANK MATERIAL: CATHODIC
TANK TYPE: 2 WALLS
LEAK DETECTION: Interstitial Monitoring

PIPE MATERIAL: FLEXIBLE
PIPE TYPE: 2 WALLS
LEAK DETECTION: Interstitial Space Monitor

TANK NUMBER: 2
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 10000
CONTENTS: DIESEL
USE: MV
TANK MATERIAL: CATHODIC
TANK TYPE: 2 WALLS
LEAK DETECTION: Interstitial Monitoring

PIPE MATERIAL: FLEXIBLE
PIPE TYPE: 2 WALLS
LEAK DETECTION: Product Line Leak Detector

Environmental FirstSearch
Site Detail Report

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

UST

SEARCH ID: 30 **DIST/DIR:** 0.25 SW **ELEVATION:** 90 **MAP ID:** 18

NAME: TREMBLAY BUS CO.
ADDRESS: 284 MYRTLE ST
NEW BEDFORD MA 02746

CONTACT: LUKE TETREAULT
SOURCE: MA DEP

REV:
ID1: 0-746348
ID2:
STATUS: UST
PHONE: (508) 999-6436

	Tanks	Installed	Capacity
CURRENT:	2	NOV 89	10000
REMOVED:	0		
PERMANENT:	0		
UNKNOWN:	0		
TEMP:	0		
CLOSED:	0		

PRODUCTS: GASOLINE, DIESEL
TANK MATERIAL: BARE STEEL, CATHODIC PROTECTED STEEL
PIPE MATERIAL: GALVANIZED STEEL

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 29 BROOK ST
NEW BEDFORD MA 02746

JOB: 73010

Street Name	Dist/Dir	Street Name	Dist/Dir
Adams St	0.14 SW		
Ashley Blvd	0.15 NE		
Bannister St	0.25 SW		
Beetle St	0.18 SE		
Bentley St	0.20 SE		
Brook St	0.03 NE		
Buchanan St	0.24 SW		
Bullard St	0.14 NE		
Church St	0.23 NW		
Coffin Ave	0.23 NW		
Coggeshall St	0.18 SE		
County St	0.04 SW		
David Ct	0.05 SW		
Deane St	0.17 NW		
Durant Ct	0.20 NW		
Fillmore St	0.25 NW		
Garfield St	0.24 SW		
Holly St	0.04 SE		
Jansel Valley Hwy	0.12 NW		
Jean St	0.11 SE		
Myrtle St	0.24 SW		
Nye St	0.11 NE		
Oneko Ln	0.24 NE		
Peckham St	0.25 SW		
Purchase St	0.04 SW		
Quanset St	0.18 NW		
Reynolds St	0.14 SW		
Sawyer St	0.08 SE		
State Highway 18	0.15 NE		
Tallman St	0.05 NE		
Van Buren St	0.21 NW		

Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites

29 BROOK ST, NEW BEDFORD MA 02746

Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 41.658332 Longitude: -70.931637) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

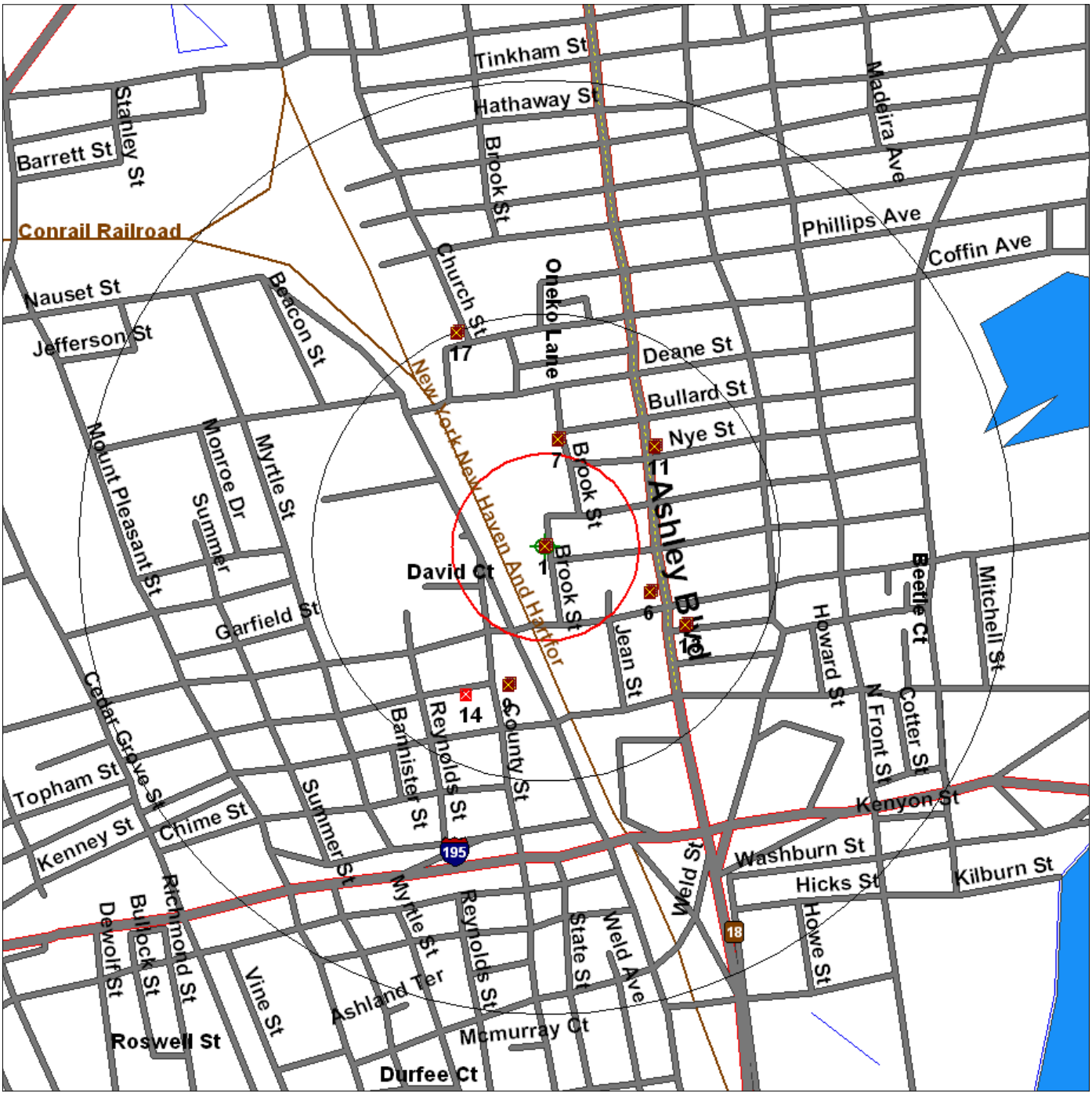
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

29 BROOK ST, NEW BEDFORD MA 02746



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 41.658332 Longitude: -70.931637) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

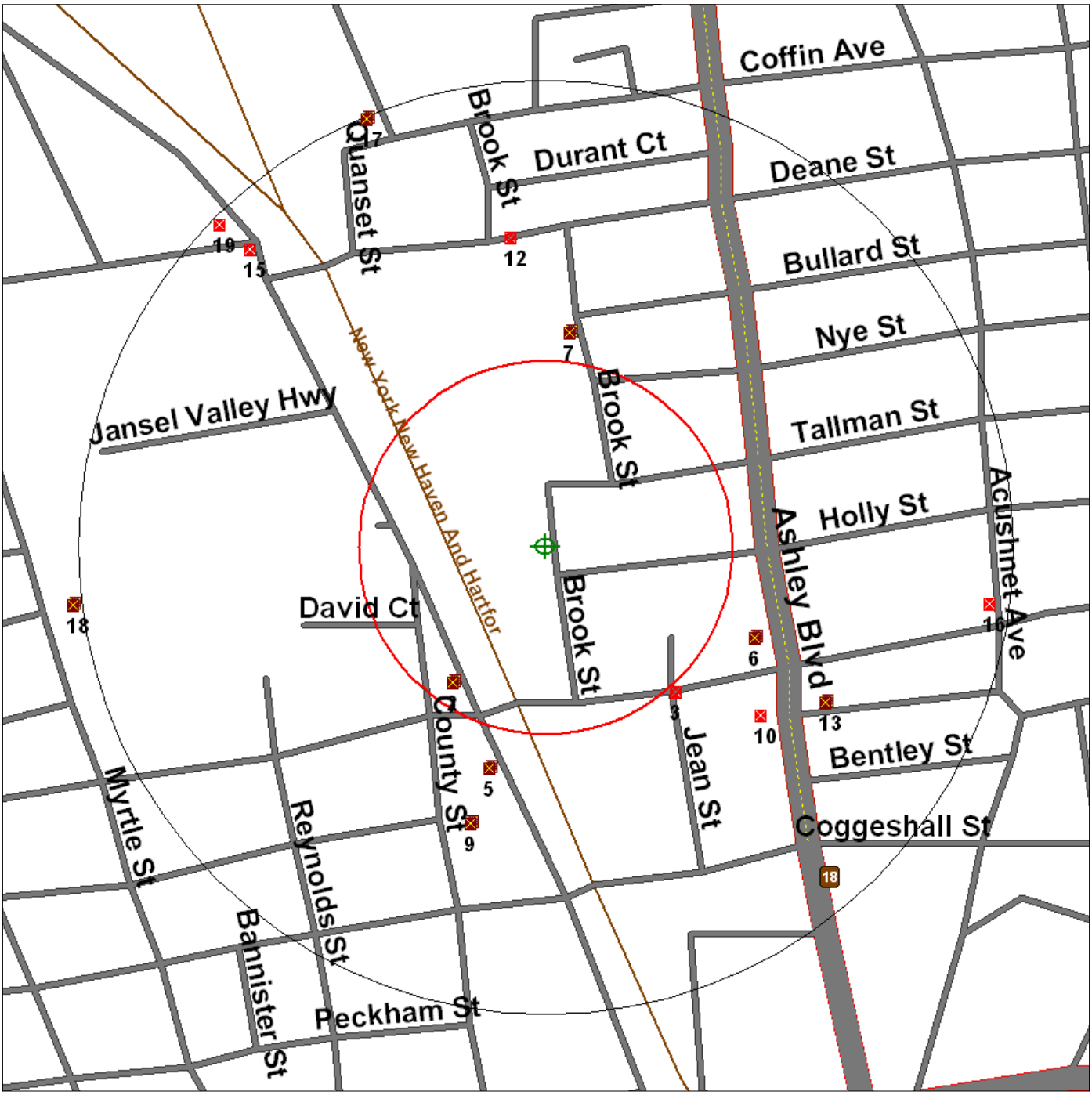
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

29 BROOK ST, NEW BEDFORD MA 02746



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 41.658332 Longitude: -70.931637) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

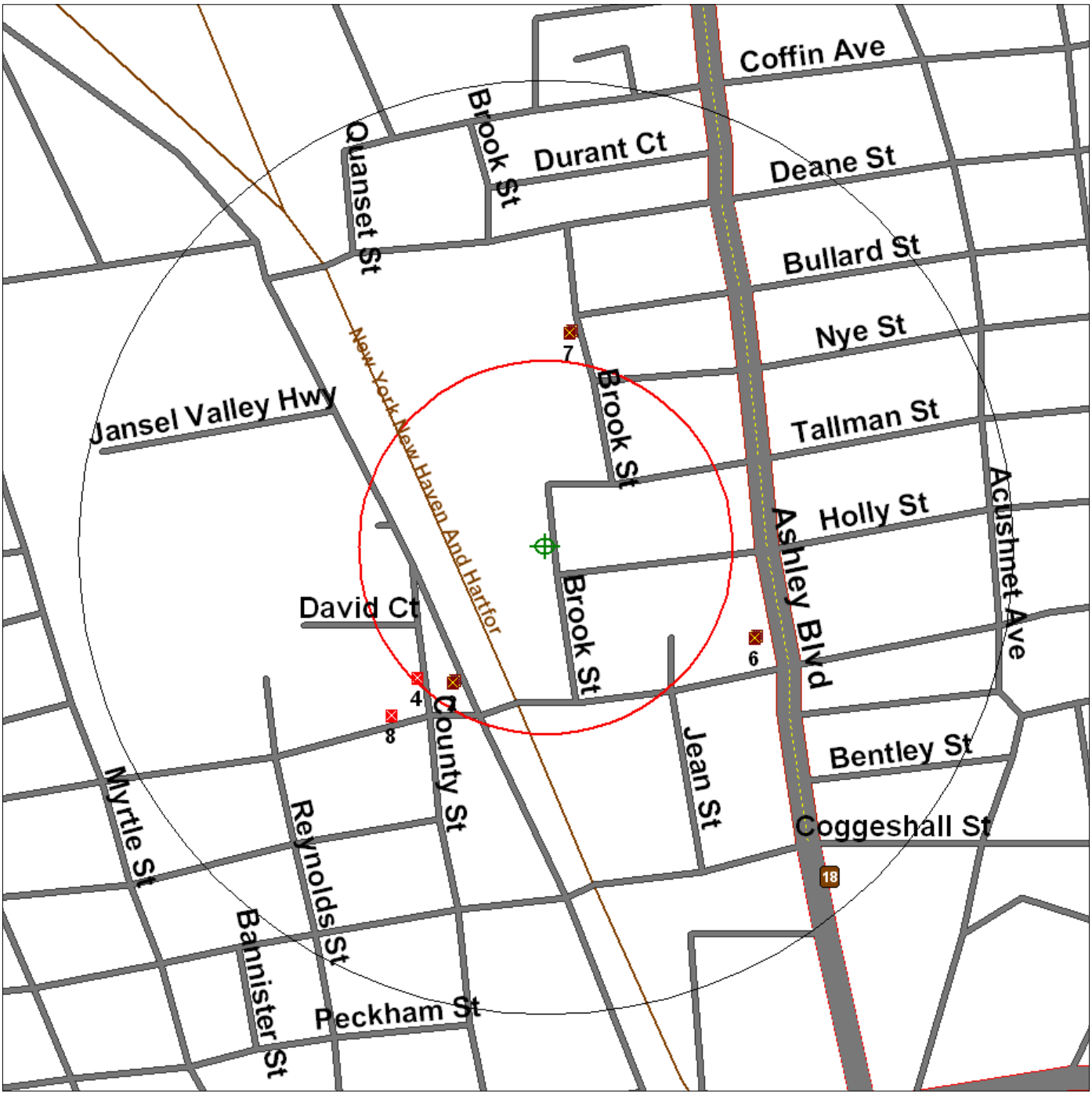
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

Non-ASTM Map: Spills 90, Other

29 BROOK ST, NEW BEDFORD MA 02746



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 41.658332 Longitude: -70.931637) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

National Historic Sites and Landmark Sites .....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch Descriptions

NPL: ***EPA*** NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.
A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.
FINAL - Currently on the Final NPL
PROPOSED - Proposed for NPL

NPL DELISTED: ***EPA*** NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. 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.
DELISTED - Deleted from the Final NPL

CERCLIS: ***EPA*** COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.
PART OF NPL- Site is part of NPL site
DELETED - Deleted from the Final NPL
FINAL - Currently on the Final NPL
NOT PROPOSED - Not on the NPL
NOT VALID - Not Valid Site or Incident
PROPOSED - Proposed for NPL
REMOVED - Removed from Proposed NPL
SCAN PLAN - Pre-proposal Site
WITHDRAWN - Withdrawn

NFRAP: ***EPA*** COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). 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.
NFRAP – No Further Remedial Action Plan
P - Site is part of NPL site
D - Deleted from the Final NPL
F - Currently on the Final NPL
N - Not on the NPL
O - Not Valid Site or Incident
P - Proposed for NPL
R - Removed from Proposed NPL
S - Pre-proposal Site
W – Withdrawn

RCRA COR ACT: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: ***EPA/MA DEP/CT DEP*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities that generate or transport hazardous waste or meet other RCRA requirements.
LGN - Large Quantity Generators
SGN - Small Quantity Generators
VGN – Conditionally Exempt Generator.
Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.
CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.
MASSACHUSETTES HAZARDOUS WASTE GENERATOR – database of generators that are regulated under the MA DEP.
VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.
SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.
LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

RCRA GEN: ***MA DEP*** HAZARDOUS WASTE GENERATORS - Database of small and very small quantity generators of hazardous waste or waste oil. These site are regulated by the MA DEP.

ERNS: ***EPA/NRC*** EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: ***DOI/BIA*** INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: ***MA DEP*** WASTE SITE CLEANUP NOTIFICATION DATABASE SUBSET - database of sites in the Commonwealth where a release of oil or hazardous material has been reported to the Department of Environmental Protection (DEP) and the site is Tier Classified or Pre Classified. Sites are usually Tier Classified (1A, 1B, 1C, 1D, and 2) using the Numerical Ranking System (NRS). The NRS scores sites on a point system based on a variety of factors. These include the site's complexity, the type of contamination, and the potential for human or environmental exposure to the contamination. In addition, some sites are automatically classified as Tier 1 sites if they pose an imminent hazard, affect public water supplies, or miss

regulatory deadlines. Also includes MA 21E SITES, a database of sites regulated under General Law Chapter 21E (the Massachusetts "Superfund" Law). Chapter 21E gives the Department of Environmental Protection (DEP) the task of ensuring that releases and threats of release of oil and hazardous material are cleaned up by the parties responsible for them. The database contains confirmed, LTBI, waiver, deleted and reserved sites.

State Spills 90: ***MA DEP*** WASTE SITE CLEANUP NOTIFICATION DATABASE - database of sites in the Commonwealth where a release of oil or hazardous material has been reported to the Department of Environmental Protection (DEP) since 1990. The data includes location, source, chemical, amount, notification date and Release Tracking Number (RTN).

State/Tribal SWL: ***MA DEP*** SOLID WASTE FACILITY DATABASE - database of the solid waste landfills, combustion facilities, and transfer stations in Massachusetts. This data includes facility type, location, capacity, owner and operator contact information, and years of operation.

State/Tribal LUST: ***MA DEP*** FIRSTSEARCH PROPRIETARY DATABASE OF LEAKING UNDERGROUND STORAGE TANKS - database of sites in the Commonwealth where a release of oil or hazardous material has been reported and the source is a tank. This database is a subset of the WASTE SITE CLEANUP NOTIFICATION DATABASE.

State/Tribal UST/AST: ***FIRE MARSHAL*** UNDERGROUND STORAGE TANK (UST) REGISTRY DATABASE - database of regulated UST in the Commonwealth and tracks its status.

State/Tribal IC: ***MA DEP*** DATABASE OF ACTIVITY AND USE LIMITATION (AUL) - database of sites receiving an AUL. An AUL provides Notice to users of property of the presence of oil or hazardous material contamination remaining at the location after a cleanup has been conducted pursuant to M.G.L.Chapter 21E and the Massachusetts Contingency Plan. The AUL is a legal document that identifies activities and uses of the property that may and may not occur, as well as the property owner ’s obligation and maintenance conditions that must be followed to ensure the safe use of the property.

RADON: ***NTIS*** NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

State Other: ***US DOJ*** NATIONAL CLANDESTINE LABORATORY REGISTER - Database of 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 U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

State Other: ***MA DEP*** NOT REPORTABLE - Database of releases that don't meet the criteria to be accepted into the Reportable Releases or the Waste Site Cleanup database o to the amount of material released.
COMPLAINTS – Database of complaints filed with the Bureau of Waste Site Cleanup. The data includes complaint types of drum, dump, fire, sheen, spill ….

Environmental FirstSearch Database Sources

NPL: ***EPA*** Environmental Protection Agency

Updated quarterly

NPL DELISTED: ***EPA*** Environmental Protection Agency

Updated quarterly

CERCLIS: ***EPA*** Environmental Protection Agency

Updated quarterly

NFRAP: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA TSD: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA GEN: ***EPA/MA DEP/CT DEP*** Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

RCRA GEN: ***MA DEP*** Massachusetts Department of Environmental Protection, Bureau of Waste Prevention

Updated when available

ERNS: ***EPA/NRC*** Environmental Protection Agency

Updated annually

Tribal Lands: ***DOI/BIA*** United States Department of the Interior

Updated annually

State/Tribal Sites: ***MA DEP*** Massachusetts Department of Environmental Protection

Updated quarterly

State Spills 90: ***MA DEP*** Massachusetts Department of Environmental Protection.

Updated quarterly

State/Tribal SWL: ***MA DEP*** Massachusetts Department of Environmental Protection

Updated annually

State/Tribal LUST: ***MA DEP*** Massachusetts Department of Environmental Protection

Updated quarterly

State/Tribal UST/AST: ***FIRE MARSHAL*** Massachusetts Department of Public Safety/Office of the Fire Marshall

Updated quarterly

State/Tribal IC: ***MA DEP*** Massachusetts Department of Environmental Protection

Updated quarterly

RADON: ***NTIS*** Environmental Protection Agency, National Technical Information Services

Updated periodically

State Other: ***US DOJ*** U.S. Department of Justice

Updated when available

State Other: ***MA DEP*** Massachusetts Department of Environmental Protection

Updated when available

APPENDIX C

Municipal Records

Location: 29 BROOK ST	**Parcel ID:** 92 148	**Zoning:** 1INB	**Fiscal Year:** 2010

Current Owner Information:
CITY OF NEW BEDFORD

133 WILLIAM STREET

NEW BEDFORD , MA 02740

Current Sales Information:
Sale Date: 02/25/2000
Sale Price: $0.00
Legal Reference: 4627-66
Grantor: SYLVIA,DANIEL F

Card Number : **1** of **1**

This Property contains 0.792 acres of land mainly classified for assessment purposes as VAC-TX TITLE

Building Value: 0	**Land Value:** 99100	**Yard Items Value:** 7100	**Total Value:** 106200

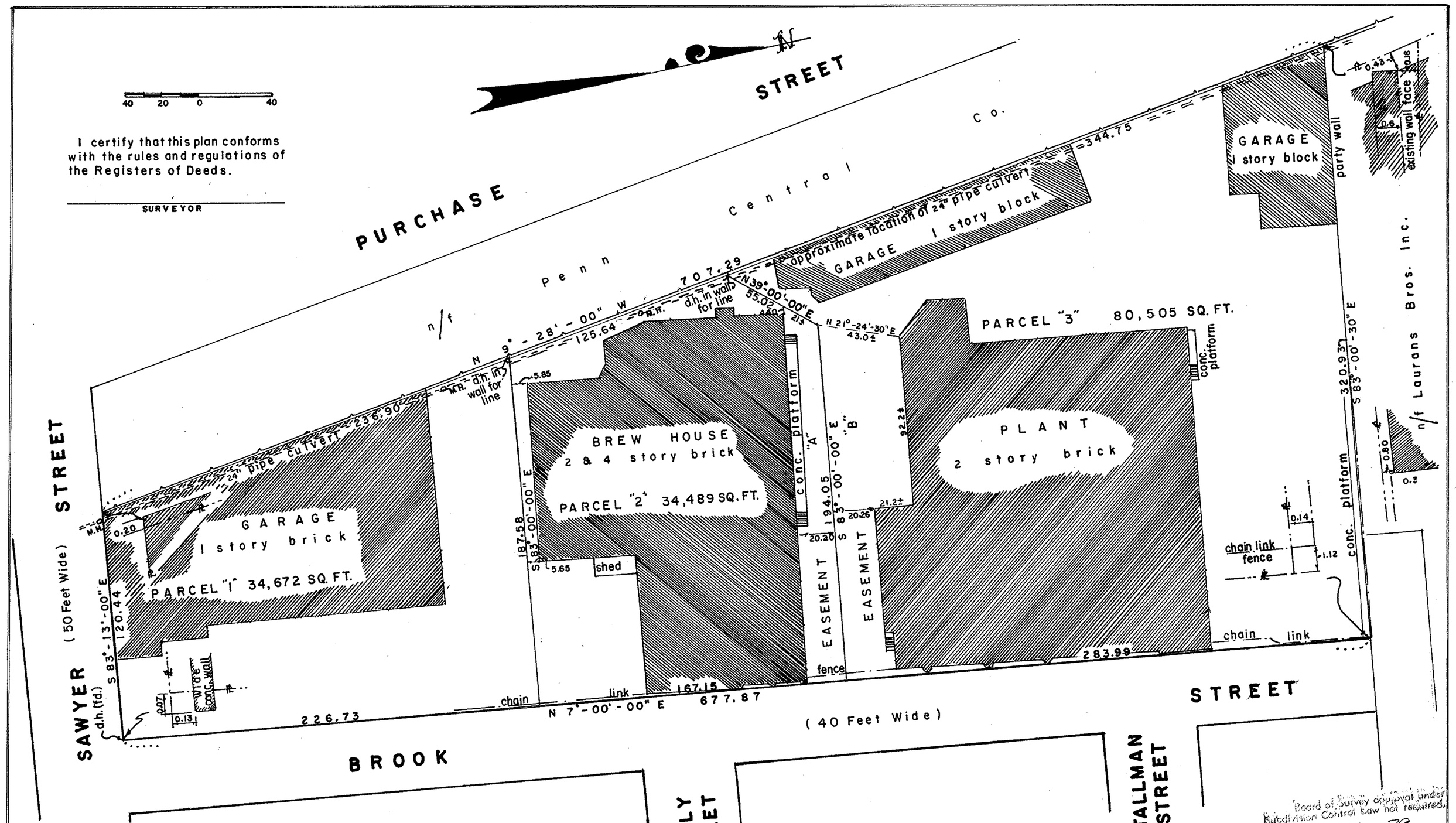
NO SKETCH AVAILABLE

NO IMAGE AVAILABLE

Fiscal Year 2010		**Fiscal Year 2009**		**Fiscal Year 2008**	
Tax Rate Res.:	12.03	Tax Rate Res.:	11.45	Tax Rate Res.:	10.55
Tax Rate Com.:	24.87	Tax Rate Com.:	23.56	Tax Rate Com.:	21.51
Property Code:	936	Property Code:	903A	Property Code:	903A
Total Bldg Value:	0	Total Bldg Value:	0	Total Bldg Value:	0
Total Yard Value:	7100	Total Yard Value:	7600	Total Yard Value:	0
Total Land Value:	99100	Total Land Value:	99100	Total Land Value:	99100
Total Value:	106200	**Total Value:**	106700	**Total Value:**	99100
Tax:	Exempt	**Tax:**	Exempt	**Tax:**	Exempt

Disclaimer: Classification is not an indication of uses allowed under city zoning.
This information is believed to be correct but is subject to change and is not warranteed.

103-13



Board of Survey approval under Subdivision Control Law not required.
DATE 10-30-79
Richard A Wolczyk
City Planner

COMMONWEALTH OF MASSACHUSETTS EDMUND J. TOOMEY REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH OF MASSACHUSETTS EDMUND J. TOOMEY REGISTERED LAND SURVEYOR

NOTE:
This is a revision of a plan made by Perkins Associates dated May 24, 1967 entitled "PLAN OF LAND BROOK and SAWYER STS. NEW BEDFORD, MASS."

SUBDIVISION OF LAND IN NEW BEDFORD, MASS.
BELONGING TO
RITTENHOUSE ORGANIZATION, INC.

SCALE: 1"=40'

JULY 21, 1979

NOV 11 1 3 PM '79
REGISTRY OF DEEDS
BRISTOL COUNTY
SOUTHERN DISTRICT

APPENDIX D

Historical Documentation

29 Brook Street
29 Brook Street
New Bedford, MA 02746

Inquiry Number: 2852628.1
August 24, 2010

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

8/24/10

Site Name:
29 Brook Street
29 Brook Street
New Bedford, MA 02746

Client Name:
Weston and Sampson
5 Centennial Drive
Peabody, MA 01960

EDR Inquiry # 2852628.1

Contact: Sean Healey

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Weston and Sampson Engineers 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 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: 29 Brook Street
Address: 29 Brook Street
City, State, Zip: New Bedford, MA 02746
Cross Street:
P.O. # NA
Project: NA
Certification # 5203-4320-B18A

Maps Provided:

1995 1906
1993
1992
1990
1950
1924

Sanborn® Library search results
Certification # 5203-4320-B18A

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

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

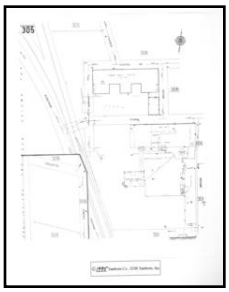
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1995 Source Sheets

Volume 1, Sheet 3

Volume 2, Sheet 284

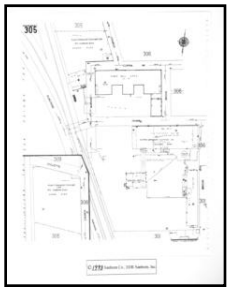
Volume 3, Sheet 301



Volume 3, Sheet 305

1993 Source Sheets

Volume 3, Sheet 302



Volume 3, Sheet 306

Volume 1, Sheet 4

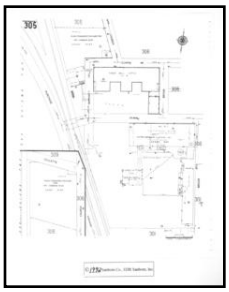
Volume 2, Sheet 285

1992 Source Sheets

Volume 2, Sheet 285

Volume 1, Sheet 4

Volume 3, Sheet 302

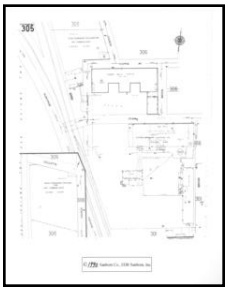


Volume 3, Sheet 306

1990 Source Sheets

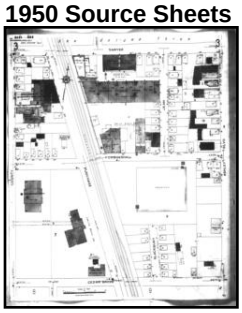
Volume 1, Sheet 4

Volume 3, Sheet 302



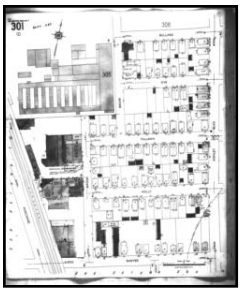
Volume 3, Sheet 306

1950 Source Sheets

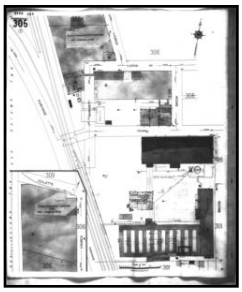


Volume 1, Sheet 3

Volume 2, Sheet 284



Volume 3, Sheet 301

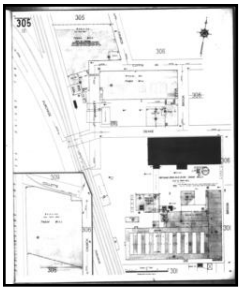


Volume 3, Sheet 305

1924 Source Sheets

Volume 1, Sheet 7

Volume 3, Sheet 305

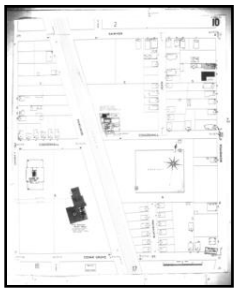


Volume 3, Sheet 309

Volume 2, Sheet 285

1906 Source Sheets

Volume 1, Sheet 2



Volume 1, Sheet 10

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Site Name:	29 Brook Street
Address:	29 Brook Street
City, ST, ZIP:	New Bedford MA 02746
Client:	Weston and Sampson Engineers
EDR Inquiry:	2852628.1
Order Date:	8/24/2010 1:29:02 PM
Certification #	5203-4320-B18A
Copyright:	1995

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Outlined areas indicate map sheets within the collection.

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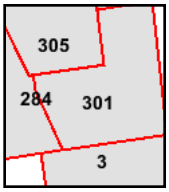

Volume 1, Sheet 3
Volume 2, Sheet 284
Volume 3, Sheet 301
Volume 3, Sheet 305

N

1993 Certified Sanborn Map

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EDR Inquiry:	2852628.1
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Copyright:	1993

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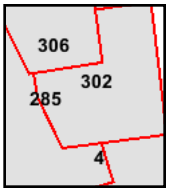

Volume 3, Sheet 302
Volume 3, Sheet 306
Volume 1, Sheet 4
Volume 2, Sheet 285

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City, ST, ZIP:	New Bedford MA 02746
Client:	Weston and Sampson Engineers
EDR Inquiry:	2852628.1
Order Date:	8/24/2010 1:29:02 PM
Certification #	5203-4320-B18A
Copyright:	1992

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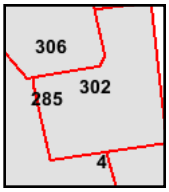

Volume 2, Sheet 285
Volume 1, Sheet 4
Volume 3, Sheet 302
Volume 3, Sheet 306

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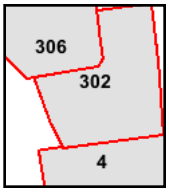

Volume 1, Sheet 4
Volume 3, Sheet 302
Volume 3, Sheet 306

N

1950 Certified Sanborn Map

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Certification # 5203-4320-B18A

Site Name:	29 Brook Street
Address:	29 Brook Street
City, ST, ZIP:	New Bedford MA 02746
Client:	Weston and Sampson Engineers
EDR Inquiry:	2852628.1
Order Date:	8/24/2010 1:29:02 PM
Certification #	5203-4320-B18A
Copyright:	1950

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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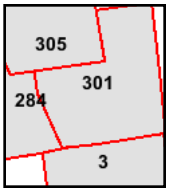

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Volume 2, Sheet 284
Volume 3, Sheet 301
Volume 3, Sheet 305

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1924 Certified Sanborn Map

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Certification # 5203-4320-B18A

Site Name:	29 Brook Street
Address:	29 Brook Street
City, ST, ZIP:	New Bedford MA 02746
Client:	Weston and Sampson Engineers
EDR Inquiry:	2852628.1
Order Date:	8/24/2010 1:29:02 PM
Certification #	5203-4320-B18A
Copyright:	1924

This Certified Sanborn Map combines the following sheets.
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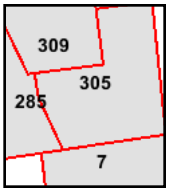
0 Feet 150 300 600



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Volume 3, Sheet 309
Volume 2, Sheet 285

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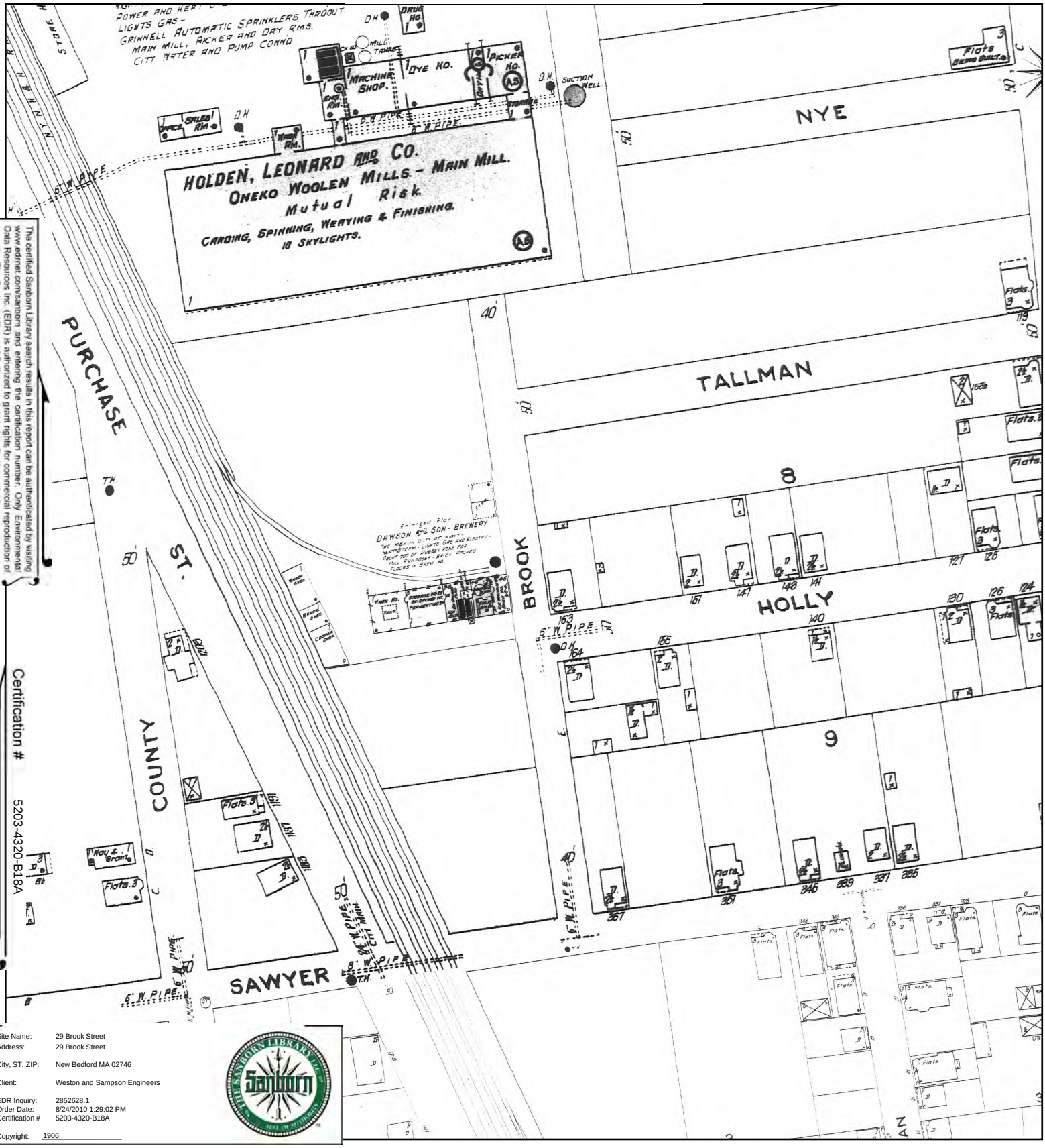
1906 Certified Sanborn Map



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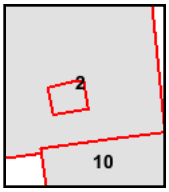
Certification # 5203-4320-B18A

Site Name:	29 Brook Street
Address:	29 Brook Street
City, ST, ZIP:	New Bedford MA 02746
Client:	Weston and Sampson Engineers
EDR Inquiry:	2852628.1
Order Date:	8/24/2010 1:29:02 PM
Certification #	5203-4320-B18A
Copyright:	1906

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



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Volume 1, Sheet 10

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APPENDIX E

Site Photographs

Photographic Record

Client: Weston and Sampson

Site Location: New Bedford, MA

Site Name: 29 Brook Street

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

East to West approach to property from Brook Street.

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

West property boundary. Railroad tracks are behind the trees.

Photographic Record

Client: Weston and Sampson

Site Name: 29 Brook Street **Site Location:** New Bedford, MA

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

Demolition debris observed over entire site. Note healthy, mature vegetation.

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

South to north approach to property. Note food storage warehouse and residential dwelling at north adjacent lots.

Photographic Record

Client: Weston and Sampson
Site Name: 29 Brook Street
Site Location: New Bedford, MA

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

West to northeast approach northeast corner of lot.

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

Open hole in ground surface. Base of hole could not be located suggesting possible basement foundation.

Photographic Record

Client: Weston and Sampson

Site Name: 29 Brook Street **Site Location:** New Bedford, MA

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

Northeast to southwest approach to property. Note south adjacent logo business.

Photographer:

Amanda Cantara

Date: 8/2/2010

Comments:

APPENDIX F

Test Pit / Soil Boring Logs / Well Construction Logs

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**
LOCATION	29 Brook Street			WSTP-1
CLIENT	City of New Bedford			GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:		ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE		SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, concrete, metal debris, roofing material (potential ACM) and glass. Coal fragments in soil. Debris is 80% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown to black fine to medium SAND with significant amounts of debris including red brick, concrete mortar and metal debris. Coal fragments in soil. Debris is 75% of volume. PID reading 0.0 ppmv.
6-10.5'	FILL MATERIAL: Brown to black fine to medium SAND with significant amounts of debris including red brick, glass, rebar, metal, wet at 10 feet. Debris 60% of volume. Black cork insulation material (potential ACM) with slight hydrocarbon odor. PID reading 10.6 ppmv.
	Bottom of Test Pit at 10.5 feet. Refusal on bottom of foundation. Piece of tile at surface following backfill (potential ACM).

NOTES:

TEST PIT NUMBER
WSTP-1
WESTON & SAMPSON
ENGINEERS, INC.

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**
LOCATION	29 Brook Street			WSTP-2
CLIENT	City of New Bedford			GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:		ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE		SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, concrete, mortar, metal debris and wood. Coal fragments in soil. Debris is 50% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, concrete, mortar, and metal debris. Red paint chip fragments in soil. Debris is 60% of volume. PID reading 0.0 ppmv.
6-10'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, concrete, mortar, metal debris and asphalt. Red paint chip fragments in soil. Debris is 60% of volume. PID reading 0.0 ppmv.
	Bottom of Test Pit at 10 feet. Pieces of tile, tar paper, and coated ceramic at surface following backfill (potential ACM).

NOTES:

TEST PIT NUMBER
WSTP-2
WESTON & SAMPSON
ENGINEERS, INC.

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**
LOCATION	29 Brook Street			WSTP-3
CLIENT	City of New Bedford			GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:		ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE		SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, copper piping, concrete, metal debris, glass and metal piping. Coal fragments in soil. White and blue paint chips in soil. Debris is 40% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, copper piping, concrete, metal debris, glass and metal piping (painted orange). Debris is 40% of volume. PID reading 0.0 ppmv.
6-9.5'	FILL MATERIAL: Brown fine to medium SAND with significant amounts of debris including red brick, copper piping, concrete, metal debris, glass and metal piping. Debris is 40% of volume. PID reading 0.0 ppmv. Brick wall running north to south with red and white paint. Some paint chips observed.
	Bottom of Test Pit at 10 feet. Refusal on bottom of foundation. Piece of tar paper and joint compound at surface following backfill (potential ACM).

NOTES:	**TEST PIT NUMBER** **WSTP-3** ***WESTON & SAMPSON*** ***ENGINEERS, INC.***

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**
LOCATION	29 Brook Street			WSTP-4
CLIENT	City of New Bedford			GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:		ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE		SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown to grey fine to medium SAND with some GRAVEL. Few small pieces of concrete less than 6 inches in diameter. Debris is less than 5% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown to grey fine to medium SAND with some gravel. Few small pieces of concrete less than 6 inches in diameter. Debris is less than 5% of volume. PID reading 0.0 ppmv.
6-9'	FILL MATERIAL: Brown to grey fine to medium SAND with some gravel. Few small pieces of concrete less than 6 inches in diameter. Debris is less than 5% of volume. PID reading 0.0 ppmv.
9-12'	FILL MATERIAL: Brown to grey fine to medium SAND with some gravel. Few small pieces of concrete less than 6 inches in diameter. Debris is less than 5% of volume. NATIVE SOIL at 11 feet. Light brown fine SAND with some GRAVEL. PID reading 0.0 ppmv.
	Bottom of Test Pit at 12 feet. Piece of tar paper at surface following backfill (potential ACM).

NOTES:

TEST PIT NUMBER
WSTP-4
WESTON & SAMPSON
ENGINEERS, INC.

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**
LOCATION	29 Brook Street			WSTP-5
CLIENT	City of New Bedford			GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:		ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE		SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Dark brown fine to medium, SAND with some GRAVEL. Few small pieces of brick, metal, plastic, glass, wood, coal all less than 6 inches in diameter. Debris is less than 5% of volume. PID reading 0.0 ppmv.
3-5'	FILL MATERIAL: Dark brown fine to medium, SAND with some GRAVEL. Few small pieces of brick, metal, plastic, glass, wood and coal - all less than 6 inches in diameter. Debris is less than 5% of volume. PID reading 0.0 ppmv.
5-10'	NATIVE: Grey fine SAND with some GRAVEL.
	End of Test Pit at 10' Piece of floor tile at surface following backfill (potential ACM).

NOTES:	**TEST PIT NUMBER** **WSTP-5** ***WESTON & SAMPSON*** ***ENGINEERS, INC.***

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**
LOCATION	29 Brook Street			WSTP-6
CLIENT	City of New Bedford			GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:		ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE		SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Dark brown fine to medium SAND with GRAVEL and significant amounts of debris including red brick, coal, rebar, piping, plastic and glass piping. Debris is 75% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Dark brown fine to medium SAND with GRAVEL and significant amounts of debris including colored brick, coal, rebar, piping, plastic and glass piping. Debris is 75% of volume. PID reading 0.0 ppmv. 4 x 4 inch floor tile - potential ACM-1 sample. Black roofing tar paper - potential ACM-2 sample.
6-10'	FILL MATERIAL: Dark brown fine to medium SAND with GRAVEL and significant amounts of debris including colored brick, coal, rebar, piping, plastic and glass piping. Debris is 75% of volume. PID reading 0.0 ppmv.
	Piece of tar paper on block at surface following backfill (potential ACM).

NOTES:

TEST PIT NUMBER
WSTP-6
WESTON & SAMPSON
ENGINEERS, INC.

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site				**TEST PIT NUMBER**
LOCATION	29 Brook Street				WSTP-7
CLIENT	City of New Bedford				GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:			ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10		DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE			SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with some GRAVEL and significant amounts of debris including red brick, concrete, rebar, piping, mortar, coal, tile, and charred wood. Debris is 85% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown fine to medium SAND with some GRAVEL and significant amounts of debris including red brick, concrete, rebar, piping, mortar, coal, tile, and charred wood. Debris is 85% of volume. PID reading 0.0 ppmv. 1 inch by 1 inch tile - potential ACM -3 sample.
6-10'	FILL MATERIAL: Brown fine to medium SAND with some GRAVEL and significant amounts of debris including red brick, concrete, rebar, piping, mortar, coal, tile, and charred wood. Debris is 85% of volume. PID reading 0.0 ppmv.
	Bottom of Test Pit at 10 feet. Refusal on bottom of foundation. Piece of tar paper on block at surface following backfill (potential ACM).

NOTES:	**TEST PIT NUMBER** **WSTP-7** ***WESTON & SAMPSON*** ***ENGINEERS, INC.***

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**	
LOCATION	29 Brook Street			WSTP-8	
CLIENT	City of New Bedford			GROUND SURFACE	
CONTRACTOR	Tantara	FOREMAN:		ELEVATION	
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with some GRAVEL and significant amounts of debris including red brick, concrete, rebar, and metal. PID reading 0.0 ppmv. 4 x 3 inch tile - potential ACM - 4 sample.
3-6'	FILL MATERIAL: Brown fine to medium SAND with some GRAVEL and significant amounts of debris including red brick, concrete, rebar, and metal. PID reading 0.0 ppmv.
6-10'	FILL MATERIAL: Brown fine to medium SAND with some GRAVEL and significant amounts of debris including red brick, concrete, rebar, and metal. PID reading 0.0 ppmv. Brick and concrete appears to have been processed.
	Bottom of Test Pit at 10 feet. Piece of tar paper on block and cork floor tile and possible joint compound at surface following backfill (potential ACM).

NOTES:	**TEST PIT NUMBER** **WSTP-8** ***WESTON & SAMPSON*** ***ENGINEERS, INC.***

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site			**TEST PIT NUMBER**	
LOCATION	29 Brook Street			WSTP-9	
CLIENT	City of New Bedford			GROUND SURFACE	
CONTRACTOR	Tantara	FOREMAN:		ELEVATION	
OBSERVED BY	Kevin Novello	DATE	10/18/10	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with little GRAVEL and significant amounts of debris including red brick, concrete, mortar, rebar, glass, coal fragments, and metal. Debris is 70% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown fine to medium SAND with little GRAVEL and significant amounts of debris including red brick, concrete, mortar, rebar, glass, coal fragments, and metal. Debris is 70% of volume. PID reading 0.0 ppmv.
6-10'	FILL MATERIAL: Brown fine to medium SAND with little GRAVEL and significant amounts of debris including red brick, concrete, mortar, rebar, glass, coal fragments, and metal. Debris is 70% of volume. PID reading 0.0 ppmv.
	Bottom of Test Pit at 10 feet. Refusal on bottom of foundation. Piece of red cork insulation at surface following backfill (potential ACM).

NOTES:	**TEST PIT NUMBER** **WSTP-9** ***WESTON & SAMPSON*** ***ENGINEERS, INC.***

TEST PIT LOG

PROJECT NAME/NO.	Former Dawson Brewery Site				**TEST PIT NUMBER**
LOCATION	29 Brook Street				WSTP-10
CLIENT	City of New Bedford				GROUND SURFACE
CONTRACTOR	Tantara	FOREMAN:			ELEVATION
OBSERVED BY	Kevin Novello	DATE	10/18/10		DEPTH TO GROUNDWATER BELOW
CHECKED BY		DATE			SURFACE

DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION
0-3'	FILL MATERIAL: Brown fine to medium SAND with debris including concrete with significant amounts of rebar, glass, plastic, metal, foundation cork insulation, and metal. Debris is 80% of volume. PID reading 0.0 ppmv.
3-6'	FILL MATERIAL: Brown fine to medium SAND with debris including concrete with significant amounts of rebar, glass, plastic, metal, foundation cork insulation, and metal. Debris is 80% of volume. PID reading 0.0 ppmv. 7 x 5 inch floor tile - potential ACM-5 sample.
6-10'	FILL MATERIAL: Brown fine to medium SAND with debris including concrete with significant amounts of rebar, glass, plastic, metal, foundation cork insulation, and metal. Debris is 80% of volume. PID reading 0.0 ppmv.
	Bottom of Test Pit at 10 feet. Refusal on bottom of foundation. Piece of tar paper and floor tile at surface following backfill (potential ACM).

WSTP-10

WESTON & SAMPSON ENGINEERS, INC.

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-1 / MW-1 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		--	No Samples Recovered	Auger
5			10/24	5-7		0.0	4" Brown fine SAND 6" Crushed red BRICK	Fill
10						--	No Samples Recovered	Concrete Floor Auger to 11'
13				13-15	55/64/32/20	0.0	Grey fine to medium SAND with some GRAVEL Saturated, No odors	Spoon saturated
15							EOB @ 15'	
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY

REMARKS:
Boring to 15' with 10' screen

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-1 / MW-1

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-2 / MW-2 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		--	No Samples Recovered	Auger
5			2/24	5-7	20/20/10/11	0.0	Brown fine SAND with crushed BRICK	Fill
8			4/24	8-10	5/4/4/6	0.0	SAA	
10						--	No Samples Recovered	Concrete Floor Auger to 11'
11			6/24	11-13	13/15/13/13	0.0	Gray fine to medium SAND with GRAVEL Saturated, Concrete Odors	Concrete Odors
13							EOB @ 13'	
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY

REMARKS:
Boring to 13' with 10' screen

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-2 / MW-2

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-3 / MW-3 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		--	No Samples Recovered	Auger
5								
			3/24	5-7		0.0	Gray fine to medium SAND with ROCK	Fill
7								
				8-10		--	No Samples Recovered	
10				10-12		--	No Samples Recovered	Auger Refusal
12							EOB @ 12'	

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY

REMARKS:
Boring to 12' with Auger refusal at end. Possible Rock

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-3 / MW-3

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-4 / MW-4 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Kevin Novello

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		0.0	Dark brown fine to medium SAND with some gravel.	Fill
5				5-10		0.0	Dark brown fine to medium SAND with some gravel.	Fill
10				10-12		0.0	Gray fine SAND	
15							EOB @ 16'	
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY

REMARKS:

Boring at 16'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-4 / MW-4

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-5 / MW-5 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		--	No Samples Recovered	Auger
5				5-7	8/6/5/5	0.0	Brown fine to medium SAND w/ some GRAVEL	Fill
10				10-12	11/13/16/16	0.0	Gray fine SAND	
				13-15	11/18/18/29	0.0	Gray fine SAND	
15							EOB @ 15'	
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY

REMARKS:

Boring at 15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-5 / MW-5

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-6 / MW-6 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
5				5-7	5/7/9/7	0.0	No Samples Recovered	
10				10-12	11/17/24/27	0.0	Brown fine to medium SAND w/ some GRAVEL	
				13-17		0.0	Gray fine to coarse SAND w/ some SILT	
15								
							EOB @ 17'	
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY

REMARKS:

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-6 / MW-6

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-7 / MW-7 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		--	No Samples Recovered	Auger
5								
				6-10		0.0	Brown fine to medium SAND w/ little GRAVEL and debris	Fill Material
10								
							EOB @ 13'	Auger Refusal
15								
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS		REMARKS:
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY	

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-7 / MW-7

Z:\M

Weston & Sampson	PROJECT New Bedford Brown Fields	REPORT OF BORING No. WS-8 / MW-8 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. Soil Exploration Corp
FOREMAN
WSE GEOLOGIST: Sean Healey

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 10/21/10 DATE END 10/21/10

SAMPLER: Hollow Stem Auger
CASING:
CASING SIZE: N/A Method

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES
				0-5		--		Auger
5				5-7		0.0	Brown fine to medium SAND w/ debris	Fill
				7-10		0.0	Brown fine to medium SAND w/ debris	Fill
10							EOB @ 10'	Auger Refusal
15								
20								
25								
30								

GRANULAR SOILS		COHESIVE SOILS		REMARKS:
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY	

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-8 / MW-8

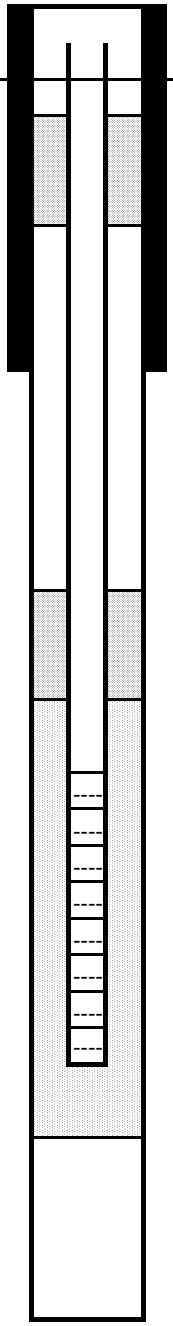
Z:\M

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-1/MW-1**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Sean Healey	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	3'
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	4'
<---------	DEPTH TOP OF SCREEN	5'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	15'
<---------	DEPTH BOTTOM OF SAND COLUMN	15'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	15'

NOTES:

MONITORING WELL NO.
WS-1/MW-1

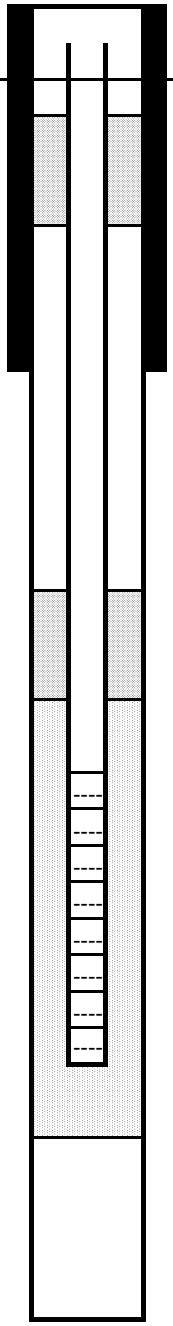
WESTON & SAMPSON ENGINEERS, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-2/MW-2**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Sean Healey	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	12"
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	2'
<---------	DEPTH TOP OF SCREEN	3'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	13'
<---------	DEPTH BOTTOM OF SAND COLUMN	13'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	13'

NOTES:

MONITORING WELL NO.
WS-2/MW-2

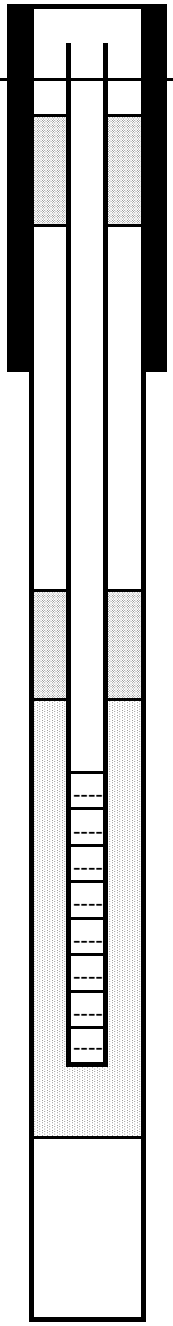
WESTON & SAMPSON ENGINEERS, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-3/MW-3**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Kevin Novello	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	12"
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	2'
<---------	DEPTH TOP OF SCREEN	3'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	12'
<---------	DEPTH BOTTOM OF SAND COLUMN	12'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	12'

NOTES:

MONITORING WELL NO.
WS-3/MW-3

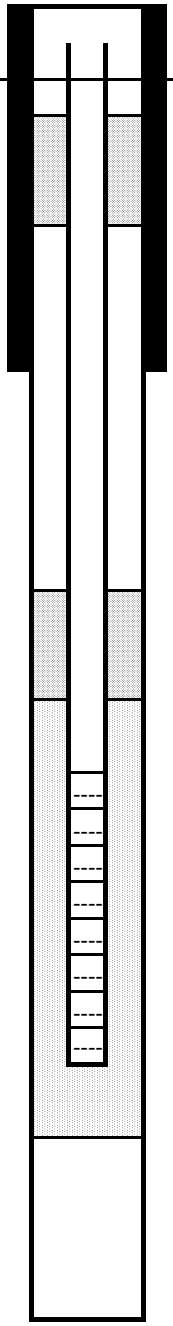
WESTON & SAMPSON ENGINEERS, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-4 / MW-4**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Kevin Novello	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	4'
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	5'
<---------	DEPTH TOP OF SCREEN	6'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	16'
<---------	DEPTH BOTTOM OF SAND COLUMN	16'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	16'

NOTES:

MONITORING WELL NO.
WS-4 / MW-4

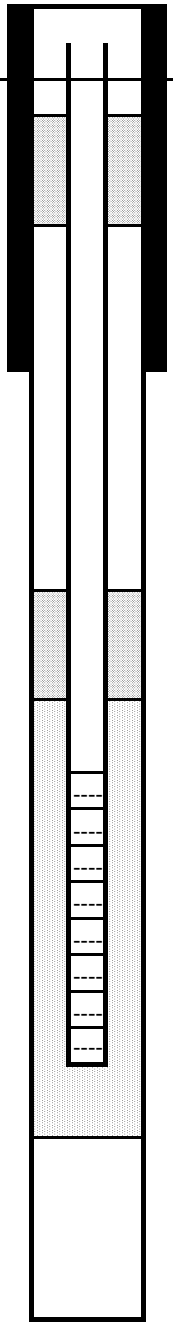
WESTON & SAMPSON ENGINEERS, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-5/MW-5**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Kevin Novello	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	3'
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	4'
<---------	DEPTH TOP OF SCREEN	5'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	15'
<---------	DEPTH BOTTOM OF SAND COLUMN	15'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	15'

NOTES:

MONITORING WELL NO.
WS-5/MW-5

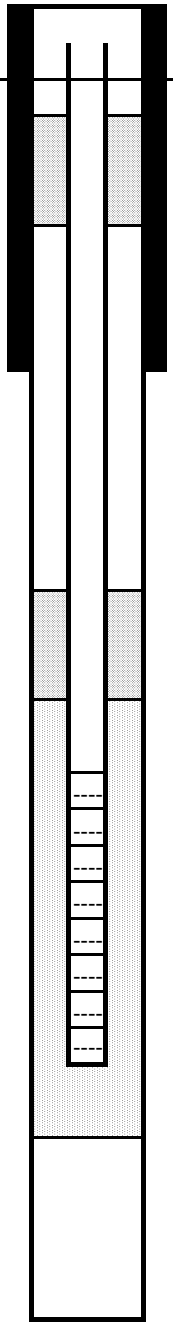
WESTON & SAMPSON ENGINEERS, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-6/MW-6**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Kevin Novello	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS
(NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	5'
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	6'
<---------	DEPTH TOP OF SCREEN	7'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	17'
<---------	DEPTH BOTTOM OF SAND COLUMN	17'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	17'

NOTES:

MONITORING WELL NO.
WS-6/MW-6

WESTON & SAMPSON ENGINEERS, INC.

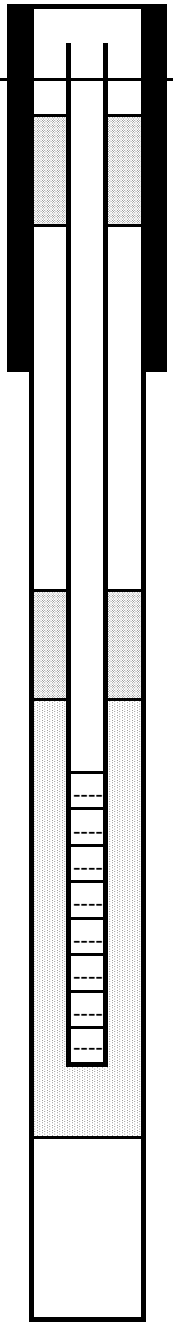
Z:\MA-Foxboro-Projects\SH ESS Projects\New Bedford Brownfields\Dawson\[Well completion_nate.XLS]WS-8

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-7/MW-7**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Kevin Novello	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS
(NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	12"
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	2'
<---------	DEPTH TOP OF SCREEN	3'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	13'
<---------	DEPTH BOTTOM OF SAND COLUMN	13'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	13'

NOTES:

MONITORING WELL NO.
WS-7/MW-7

WESTON & SAMPSON ENGINEERS, INC.

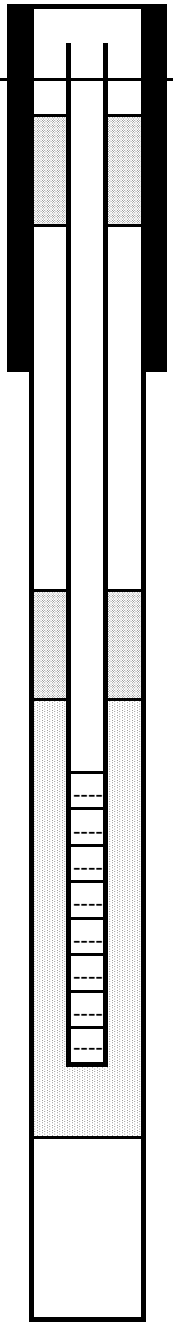
Z:\MA-Foxboro-Projects\SH ESS Projects\New Bedford Brownfields\Dawson\[Well completion_nate.XLS]WS-8

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.				**MONITORING WELL NO.**	
LOCATION	29 Brook Street, New Bedford, MA			**WS-8/MW-8**	
CLIENT				ELEVATION	
CONTRACTOR	Soil Exploration Corp.	DRILLER		TOP OF PVC	
OBSERVED BY	Kevin Novello	DATE	10/21/10	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	

GROUND ELEVATION GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	12"
<---------	TYPE OF SURFACE SEAL(S)	Concrete
	TYPE OF SURFACE CASING	Aluminum/Cast Iron
<---------	ID OF SURFACE CASING	3.5"
<---------	DEPTH BOTTOM OF CASING	12"
	ID OF RISER PIPE	1"
<---------	TYPE OF RISER PIPE	PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#2 Sand
	DEPTH TOP OF SEAL	12"
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	2'
<---------	DEPTH TOP OF SCREEN	3'
	TYPE OF SCREEN	PVC
<---------	SIZE OPENINGS	0.010"
	ID OF SCREEN	2"
<---------	TYPE OF BACKFILL AROUND SCREEN	#2 Sand
<---------	DEPTH BOTTOM OF SCREEN	10'
<---------	DEPTH BOTTOM OF SAND COLUMN	10'
<---------	TYPE OF BACKFILL BELOW SCREEN	#2 Sand
<---------	DIAMETER OF BOREHOLE	2-1/2"
<---------	DEPTH BOTTOM OF BOREHOLE	10'

NOTES:

MONITORING WELL NO.
WS-8/MW-8

WESTON & SAMPSON ENGINEERS, INC.

APPENDIX G

Laboratory Analytical Reports

Groundwater Analytical, Inc.
P.O.Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone: (508) 759-4441
FAX: (508) 759-4475

GROUNDWATER ANALYTICAL

e-mail

To:	Sean Healey	From:	e-mail reporting GWA
	Weston & Sampson -	Pages:	25
e-mail:	healeys@wseinc.com	Date:	10/25/2010 16:53:00
Re:	137256	CC:	

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply

● Comments:

Final Project Report for New Bedford Branfield, Brooks St, Lab ID 137256, Received 10-22-10

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Confidential

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

October 25, 2010

Mr. Sean Healey
Weston & Sampson, Inc.
5 Centennial Drive
Peabody, MA 01960

LABORATORY REPORT

Project: **New Bedford Branfield, Brooks St**
Lab ID: **137256**
Received: **10-22-10**

Dear Sean:

Enclosed are the analytical results for the above referenced project. The project was processed for Rush 24 Hour turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**New Bedford Branfield, Brooks St**	Delivery:	**Hand**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137256**	Lab Receipt:	**10-22-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-1	WS1 5-7'		Soil	10/21/10 13:32	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304705	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		
C1311980	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		
C1311970	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		
C1311967	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-2	WS1 13-15'		Soil	10/21/10 13:45	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304647	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		
C1311995	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		
C1311989	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		
C1311979	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-3	WSTP1-A		Solid	10/21/10 9:45	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-4	WSTP1-B		Solid	10/21/10 9:45	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-5	WSTP1-C		Solid	10/21/10 9:45	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-6	WSTP2-A		Solid	10/21/10 10:00	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-7	WSTP2-B		Solid	10/21/10 10:00	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-8	WSTP2-C		Solid	10/21/10 10:00	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-9	WSTP3-A		Solid	10/21/10 10:15	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford Branfield, Brooks St**	Delivery:	**Hand**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137256**	Lab Receipt:	**10-22-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-10	WSTP3-B		Solid	10/21/10 10:15	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-11	WSTP4-A		Solid	10/21/10 10:30	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-12	WSTP5-A		Solid	10/21/10 10:35	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-13	WSTP6-A		Solid	10/21/10 10:40	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-14	WSTP7-A		Solid	10/21/10 10:45	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-15	WSTP8-A		Solid	10/21/10 10:50	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-16	WSTP8-B		Solid	10/21/10 10:50	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-17	WSTP8-C		Solid	10/21/10 10:50	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-18	WSTP8-D		Solid	10/21/10 10:50	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-19	WSTP10-A		Solid	10/21/10 11:00	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-20	WSTP10-B		Solid	10/21/10 11:00	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford Branfield, Brooks St**	Delivery:	**Hand**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137256**	Lab Receipt:	**10-22-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137256-21	WSTP9-A		Solid	10/21/10 0:00	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**New Bedford Branfield, Brooks St**	Lab ID:	**137256**
Client:	**Weston & Sampson, Inc.**	Received:	**10-22-10 09:26**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8260B: 137256-1,-2

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	n/a
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	Yes

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	No
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory 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:	Karyn E. Raymond	Position:	Project Manager
Printed Name:	Karyn E. Raymond	Date:	10-25-10

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS1 5-7'**	Matrix:	**Soil**
Project:	**New Bedford Branfield, Brooks St**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137256-1**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-21-10 13:32**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-22-10 09:26**	Sample Weight:	**4.1 g**
Analyzed:	**10-24-10 16:59**	% Solids:	**100**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	12
74-87-3	Chloromethane	BRL		ug/Kg	12
75-01-4	Vinyl Chloride	BRL		ug/Kg	12
74-83-9	Bromomethane	BRL		ug/Kg	12
75-00-3	Chloroethane	BRL		ug/Kg	12
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	12
60-29-7	Diethyl Ether	BRL		ug/Kg	12
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	6
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	62
67-64-1	Acetone	BRL		ug/Kg	250
75-15-0	Carbon Disulfide	BRL		ug/Kg	62
75-09-2	Methylene Chloride	BRL		ug/Kg	62
107-13-1	Acrylonitrile	BRL		ug/Kg	6
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	6
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	6
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	6
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	6
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	6
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	62
74-97-5	Bromochloromethane	BRL		ug/Kg	6
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	62
67-66-3	Chloroform	BRL		ug/Kg	6
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	6
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	6
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	6
71-43-2	Benzene	BRL		ug/Kg	6
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	6
79-01-6	Trichloroethene	BRL		ug/Kg	6
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	6
74-95-3	Dibromomethane	BRL		ug/Kg	6
75-27-4	Bromodichloromethane	BRL		ug/Kg	6
123-91-1	1,4-Dioxane	BRL		ug/Kg	6,200
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	6
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	62
108-88-3	Toluene	BRL		ug/Kg	6
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	6
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	6
127-18-4	Tetrachloroethene	BRL		ug/Kg	6
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	6
591-78-6	2-Hexanone	BRL		ug/Kg	62
124-48-1	Dibromochloromethane	BRL		ug/Kg	6
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	6
108-90-7	Chlorobenzene	BRL		ug/Kg	6
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	6
100-41-4	Ethylbenzene	BRL		ug/Kg	6
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	6

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS1 5-7'**	Matrix:	**Soil**
Project:	**New Bedford Branfield, Brooks St**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137256-1**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-21-10 13:32**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-22-10 09:26**	Sample Weight:	**4.1 g**
Analyzed:	**10-24-10 16:59**	% Solids:	**100**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/Kg	6
100-42-5	Styrene	BRL		ug/Kg	6
75-25-2	Bromoform	BRL		ug/Kg	6
98-82-8	Isopropylbenzene	BRL		ug/Kg	6
108-86-1	Bromobenzene	BRL		ug/Kg	6
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	6
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	6
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	62
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	6
95-49-8	2-Chlorotoluene	BRL		ug/Kg	6
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	6
106-43-4	4-Chlorotoluene	BRL		ug/Kg	6
98-06-6	*tert*- Butylbenzene	BRL		ug/Kg	6
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	6
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	6
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	6
99-87-6	4-Isopropyltoluene	**8**		ug/Kg	6
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	6
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	6
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	6
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	6
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	6
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	6
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	6
91-20-3	Naphthalene	BRL		ug/Kg	6
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	6
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	250
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	6
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/Kg	6
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	6

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	44	**87** %	70 - 130 %
1,2-Dichloroethane-d_4	50	35	**71** %	70 - 130 %
Toluene-d_8	50	50	**99** %	70 - 130 %
4-Bromofluorobenzene	50	46	**92** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on an as received basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS1 13-15'**	Matrix:	**Soil**
Project:	**New Bedford Branfield, Brooks St**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137256-2**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-21-10 13:45**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-22-10 09:26**	Sample Weight:	**7.0 g**
Analyzed:	**10-24-10 18:12**	% Solids:	**100**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS1 13-15'**	Matrix:	**Soil**
Project:	**New Bedford Branfield, Brooks St**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137256-2**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-21-10 13:45**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-22-10 09:26**	Sample Weight:	**7.0 g**
Analyzed:	**10-24-10 18:12**	% Solids:	**100**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n* -Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*- Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec* -Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n* -Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	44	**88** %	70 - 130 %
1,2-Dichloroethane-d_4	50	39	**79** %	70 - 130 %
Toluene-d_8	50	50	**99** %	70 - 130 %
4-Bromofluorobenzene	50	51	**101** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on an as received basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 600/R-93-116
PLM Bulk Asbestos

Project: **New Bedford Branfield, Brooks St**
Client: **Weston & Sampson, Inc.**

Matrix: **Solid**
Container(s): **Plastic Bag**
Received: **10-22-10 09:26**

Lab ID: **137256-3** Sampled: **10-21-10 09:45** Analyzed: **10-25-10 14:45** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP1-A** HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**						
Description: **Black, Homogenous**						
Comments:						

Lab ID: **137256-4** Sampled: **10-21-10 09:45** Analyzed: **10-25-10 14:47** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP1-B** HA ID: **n/a**		Cellulose	5 %		**No**	**ND**
Location: **n/a**		Non-Fibrous	95 %			
Description: **Black/Brown, Heterogeneous**						
Comments:						

Lab ID: **137256-5** Sampled: **10-21-10 09:45** Analyzed: **10-25-10 14:50** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP1-C** HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**						
Description: **Off-White, Homogenous**						
Comments:						

Lab ID: **137256-6** Sampled: **10-21-10 10:00** Analyzed: **10-25-10 14:51** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP2-A** HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**						
Description: **Yellow, Homogenous**						
Comments:						

Lab ID: **137256-7** Sampled: **10-21-10 10:00** Analyzed: **10-25-10 14:51** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP2-B** HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**						
Description: **Black, Homogenous**						
Comments:						

Method Reference: Method for the Determination of Asbestos in Bulk Building Materials, US EPA, EPA-600/R-93-116 (1993).

Report Notations: Due to inherent limitations of Polarized Light Microscopy (PLM), fibers and/or bundles below the resolution of the light microscope (approximately < 0.25 microns in width) will not be detected. ND, <1% and 1% samples should be confirmed by Transmission Electron Microscopy (TEM). This test report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. NVLAP Lab Code 200751-0

ND Not Detected
HA Homogenous Area
NA Not Analyzed
PR Present
PS Not Analyzed/Positive Stop

GROUNDWATER ANALYTICAL

EPA Method 600/R-93-116
PLM Bulk Asbestos

Project: **New Bedford Branfield, Brooks St**
Client: **Weston & Sampson, Inc.**

Matrix: **Solid**
Container(s): **Plastic Bag**
Received: **10-22-10 09:26**

Lab ID: **137256-8** Sampled: **10-21-10 10:00** Analyzed: **10-25-10 14:53** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP2-C**	HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**							
Description: **Off-White, Heterogeneous**							
Comments:							

Lab ID: **137256-9** Sampled: **10-21-10 10:15** Analyzed: **10-25-10 14:55** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP3-A**	HA ID: **n/a**		Cellulose	30 %		**No**	**ND**
Location: **n/a**			Non-Fibrous	70 %			
Description: **Black, Heterogeneous**							
Comments:							

Lab ID: **137256-10** Sampled: **10-21-10 10:15** Analyzed: **10-25-10 14:55** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP3-B**	HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**							
Description: **Off-White, Homogenous**							
Comments:							

Lab ID: **137256-11** Sampled: **10-21-10 10:30** Analyzed: **10-25-10 14:56** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP4-A**	HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**							
Description: **Black, Homogenous**							
Comments:							

Lab ID: **137256-12** Sampled: **10-21-10 10:35** Analyzed: **10-25-10 14:57** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP5-A**	HA ID: **n/a**		Fibrous Glass	40 %		**No**	**ND**
Location: **n/a**			Non-Fibrous	60 %			
Description: **Off-White, Heterogeneous**							
Comments:							

Method Reference: Method for the Determination of Asbestos in Bulk Building Materials, US EPA, EPA-600/R-93-116 (1993).

Report Notations: Due to inherent limitations of Polarized Light Microscopy (PLM), fibers and/or bundles below the resolution of the light microscope (approximately < 0.25 microns in width) will not be detected. ND, <1% and 1% samples should be confirmed by Transmission Electron Microscopy (TEM). This test report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. NVLAP Lab Code 200751-0

ND Not Detected
HA Homogenous Area
NA Not Analyzed
PR Present
PS Not Analyzed/Positive Stop

GROUNDWATER ANALYTICAL

EPA Method 600/R-93-116
PLM Bulk Asbestos

Project: **New Bedford Branfield, Brooks St**
Client: **Weston & Sampson, Inc.**

Matrix: **Solid**
Container(s): **Plastic Bag**
Received: **10-22-10 09:26**

Lab ID: **137256-13** Sampled: **10-21-10 10:40** Analyzed: **10-25-10 14:58** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP6-A**	HA ID: **n/a**		Cellulose	30 %		**No**	**ND**
Location: **n/a**			Non-Fibrous	70 %			
Description: **Black, Heterogeneous**							
Comments:							

Lab ID: **137256-14** Sampled: **10-21-10 10:45** Analyzed: **10-25-10 15:00** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP7-A**	HA ID: **n/a**		Cellulose	25 %		**No**	**ND**
Location: **n/a**			Non-Fibrous	75 %			
Description: **Black, Heterogeneous**							
Comments:							

Lab ID: **137256-15** Sampled: **10-21-10 10:50** Analyzed: **10-25-10 15:02** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP8-A**	HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**							
Description: **Black, Heterogeneous**							
Comments:							

Lab ID: **137256-16** Sampled: **10-21-10 10:50** Analyzed: **10-25-10 15:03** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP8-B**	HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**							
Description: **Black/Brown, Homogenous**							
Comments:							

Lab ID: **137256-17** Sampled: **10-21-10 10:50** Analyzed: **10-25-10 15:03** Analyst: **MJP**

Sample Identification			Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP8-C**	HA ID: **n/a**		Fibrous Glass	40 %		**No**	**ND**
Location: **n/a**			Non-Fibrous	60 %			
Description: **Off-White, Heterogeneous**							
Comments:							

Method Reference: Method for the Determination of Asbestos in Bulk Building Materials, US EPA, EPA-600/R-93-116 (1993).

Report Notations: Due to inherent limitations of Polarized Light Microscopy (PLM), fibers and/or bundles below the resolution of the light microscope (approximately < 0.25 microns in width) will not be detected. ND, <1% and 1% samples should be confirmed by Transmission Electron Microscopy (TEM). This test report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. NVLAP Lab Code 200751-0

ND Not Detected
HA Homogenous Area
NA Not Analyzed
PR Present
PS Not Analyzed/Positive Stop

GROUNDWATER ANALYTICAL

EPA Method 600/R-93-116
PLM Bulk Asbestos

Project: **New Bedford Branfield, Brooks St**
Client: **Weston & Sampson, Inc.**

Matrix: **Solid**
Container(s): **Plastic Bag**
Received: **10-22-10 09:26**

Lab ID: **137256-18** Sampled: **10-21-10 10:50** Analyzed: **10-25-10 15:03** Analyst: **MJP**

Sample Identification		Non-Asbestos Material	Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP8-D** HA ID: **n/a** Location: **n/a** Description: **Off-White, Homogenous** Comments:		Non-Fibrous 100 %		**No**	**ND**

Lab ID: **137256-19** Sampled: **10-21-10 11:00** Analyzed: **10-25-10 15:06** Analyst: **MJP**

Sample Identification		Non-Asbestos Material	Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP10-A** HA ID: **n/a** Location: **n/a** Description: **Black, Heterogeneous** Comments:		Non-Fibrous 65 %	Chrysotile 35 %	**Yes**	**35 %**

Lab ID: **137256-20** Sampled: **10-21-10 11:00** Analyzed: **10-25-10 15:07** Analyst: **MJP**

Sample Identification		Non-Asbestos Material	Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP10-B** HA ID: **n/a** Location: **n/a** Description: **Off-White, Heterogeneous** Comments:		Fibrous Glass 40 % Non-Fibrous 60 %		**No**	**ND**

Lab ID: **137256-21** Sampled: **10-21-10 00:00** Analyzed: **10-25-10 15:07** Analyst: **MJP**

Sample Identification		Non-Asbestos Material	Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **WSTP9-A** HA ID: **n/a** Location: **n/a** Description: **Black/Brown, Heterogeneous** Comments:		Non-Fibrous 100 %		**No**	**ND**

Method Reference: Method for the Determination of Asbestos in Bulk Building Materials, US EPA, EPA-600/R-93-116 (1993).

Report Notations: Due to inherent limitations of Polarized Light Microscopy (PLM), fibers and/or bundles below the resolution of the light microscope (approximately < 0.25 microns in width) will not be detected. ND, <1% and 1% samples should be confirmed by Transmission Electron Microscopy (TEM). This test report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. NVLAP Lab Code 200751-0

ND Not Detected
HA Homogenous Area
NA Not Analyzed
PR Present
PS Not Analyzed/Positive Stop

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**New Bedford Branfield, Brooks St**	Lab ID:	**137256**
Client:	**Weston & Sampson, Inc.**	Received:	**10-22-10 09:26**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1 . Sample identified as "WSTP 9A" was not listed on the Chain of Custody. The sample was analyzed for Asbestos per Sean Healey, 10-22-10.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1 . Sample 137256-21 was not received with sample collection time listed on the Chain of Custody. Sample was reported with a sampling collection time of 00:00 by the laboratory.

2 . EPA 8260B Note: Samples 137256-1 and -2. Acetone did not meet the required minimum response factor in the ICAL. Response was below the recommended limits in the CCV/LCS too.

3 . EPA 8260B: %Ds for 1,1,2-Trichlorotrifluoroethane, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, 1,2-dibromo-3-chloropropane, 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene and Hexachlorobutadiene were above the recommended limit in the CCV.

GROUNDWATER ANALYTICAL

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www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: New Bedford Bramfield Brooks Street
Project Number: TBD
Sampler Name: Sean Healey
Project Manager: Sean Healey

Firm: Weston & Sampson
Address: 5 Centennial Drive
City / State / Zip:: Peabody MA 01960
Telephone: 978 532 1900

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☒ RUSH (RAN-_____) (Rush requires Rush Authorization Number)
- ☐ Please Email to: healyse@wse.com
- ☐ Please FAX to:

BILLING

- ☐ Purchase Order No.:
- ☐ Third Party Billing:
- ☐ GWA Quote:

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s): NUMBER	40mL VOA Vial	60mL/2 oz Glass	125mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Flash Pt.	Preservation: HCl	HNO_3	H_2SO_4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)	ACM by PLM
21	1:32	WS1 5-7'				X						4															X		X				
21	1:45	WS1 13-15'				X						4															X		X				
21	9:45	WSTP1-A																				X											X
21	9:45	WSTP1-B																				X											X
21	9:45	WSTP1-C																				X											X
21	10:00	WSTP2-A																				X											X
21	10:00	WSTP2-B																				X											X
21	10:00	WSTP2-C																				X											X
21	10:15	WSTP3-A																				X											X
21	10:15	WSTP3-B																				X											X
21	10:30	WSTP4-A																				X											X
21	10:35	WSTP5-A																				X											X

Analysis columns (OPTIONS / SDWA / NPDES / RCRA/21E):
- Volatiles: ☐ TIC Search; ☐ 524.2; ☐ 624; ☐ 8260B TCL+MTBE; ☒ 8260B
- ☐ 602+MTBE; ☐ 8260B Aromatics; ☐ 8260B Halocarbons; ☐ 8021B Vermont
- Semivolatiles: ☐ Acid Only; ☐ B/N Only; ☐ TIC Search; ☐ 525.2; ☐ 625; ☐ 8270C; ☐ 8270C PAHs only
- Pest/Herb/PCBs Extractable: ☐ 505 ☐ 508; ☐ 608 Pesticides; ☐ 608 PCBs; ☐ 8081A Pesticides; ☐ 8082 PCBs
- Pest/Herb/PCBs Vol.: ☐ 531.1; ☐ 515.3; ☐ 504.1 EDB/DBCP; ☐ 615; ☐ 8015 Diesel Range Organics (DRO) ☐ ME DRO; ☐ 8151A Herbicides; ☐ 8011 EDB/DBCP
- Metals: Specify For Water Samples; ☐ Total; ☐ Dissolved; ☐ Lead and Copper; ☐ 13 Priority Pollutant; ☐ 8 RCRA; ☐ 5 RCRA; ☐ 14 MA DEP Metals; ☐ 23 TAL; ☐ Specify:
- Petroleum Hydrocarbon Ext. TPH: ☐ CT ETPH; ☐ MA DEP EPH w/all targets; ☐ EPH C carbon Ranges only; ☐ EPH w/4 PAHs; ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00-Mod.); ☐ TPH by GC/FID (8015B Mod) Quantitative Only
- Petroleum Hydrocarbon Vol. TPH: ☐ Gasoline Range Organics (GRO); ☐ ME GRO; ☐ MA DEP VPH w/all targets; ☐ VPH Carbon ranges only
- Haz. Waste: ☐ TCLP; ☐ SPLP; ☐ 8 Metals; ☐ Pb only; ☐ VOA; ☐ Semi VOA; ☐ Pesticides; ☐ Herbicides; ☐ Corrosivity (as pH); ☐ Reactivity; ☐ Ignitability; ☐ Conductivity; ☐ Paint Filter; ☐ MA Basic Disposal: 8260B/TCL, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity; ☐ MA Extended Disposal 8260B, 8270C, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity
- General Chemistry: ☐ Nitrate; ☐ Nitrite; ☐ Chlorine; ☐ Fluoride; ☐ Sulfate; ☐ Dissolved Phosphorus; ☐ Ammonia; ☐ TKN; ☐ Total Phosphorus; ☐ Total N (as N02/N03/TKN); ☐ Oil & Grease; ☐ COD; ☐ TOC; ☐ BOD; ☐ CBOD; ☐ TDS; ☐ TSS; ☐ Alkalinity; ☐ Total Cyanide; ☐ Physiologically Available Cyanide; ☐ Available Cyanide
- Other: ☐ pH; ☐ Dissolved Oxygen; ☐ Turbidity; ☐ Total Coliform; ☐ Fecal Coliform; ☐ HPC; ☐ MA DEP Asbestos in Soil; ☐ Asbestos (PLM)

REMARKS / SPECIAL INSTRUCTIONS

- ☒ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample Included. (Volatile analyses require duplicate collection and Trip Blanks).
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO CT RCP Data Certification required.

Signature: [signature]

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☒ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☐ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler: [signature]	Date: 10/22/10	Time: 9:26a	Received by: [signature]	Receipt Temperature: ☒ Ice ☐ Refrigerated 2-6°C Recommended 2.0°C
Relinquished by:	Date	Time	Received by:	Container Count:
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: New Bedford Brownfields Brook Street
Project Number: TBO
Sampler Name: Sean Healey
Project Manager: Sean Healey

Firm: Weston & Sampson
Address: 5 Centennial Drive
City / State / Zip:: Peabody Ma 01960
Telephone: 978 532 1900

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☒ RUSH (RAN- _____) (Rush requires Rush Authorization Number)
- ☐ Please Email to: healeys@wsenc.com
- ☐ Please FAX to: _____

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

	Volatiles				Semivolatiles		Pest/Herb/PCBs Extractable			Pest/Herb/PCBs Vol.		Metals			Petroleum Hydrocarbon Ext. TPH				Petroleum Hydrocarbon Vol. TPH			Haz. Waste				General Chemistry						Other				
OPTIONS	☐ TIC Search				☐ Acid Only ☐ B/N Only ☐ TIC Search																															
SDWA	☐ 524.2				☐ 525.2		☐ 505 ☐ 508			☐ 531.1	☐ 515.3	☐ 504.1 EDB/DBCP	☐ Lead and Copper																							
NPDES	☐ 624	☐ 602+MTBE			☐ 625	☐ 625 PAHs only	☐ 608 Pesticides	☐ 608 PCBs		☐ 615			☐ 13 Priority Pollutant																							
RCRA/21E	☐ 8260B TCL+MTBE	☐ 8260B	☐ 8260B Aromatics	☐ 8260B Halocarbons	☐ 8270C	☐ 8270C PAHs only	☐ 8081A Pesticides	☐ 8082 PCBs		☐ 8151A Herbicides	☐ 8011 EDB/DBCP		☐ 8 RCRA ☐ 5 RCRA ☐ 14 MA DEP Metals ☐ 23 TAL	☐ Specify:	☐ Diesel Range Organics (DRO) ☐ ME DRO	☐ CT ETPH	☐ MA DEP EPH w/all targets	☐ EPH C arbon Ranges only	☐ EPH w/4 PAHs	☐ Hydrocarbon Fingerprint (GC/FID) by ASTM D3328-00-Mod.)	☐ TPH by GC/FID (8015B Mod) Quantitative Only	☐ Gasoline Range Organics (GRO)	☐ ME GRO	☐ MA DEP VPH w/all targets	☐ VPH Carbon ranges only	☐ TCLP ☐ SPLP ☐ 8 Metals	☐ Pb only	☐ VOA ☐ Semi VOA	☐ Pesticides	☐ Herbicides	☐ Reactivity	☐ Conductivity	☐ Paint Filter	☐ Corrosivity (as pH)	☐ Ignitability	☐ MA Basic Chapsal: 8260/8270CL TPH; PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity	☐ MA Extended Disposal 8260B, 8270C, TPH; PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity	☐ Nitrate	☐ Nitrite	☐ Chlorine	☐ Fluoride	☐ Sulfate	☐ Dissolved Phosphorus	☐ Ammonia	☐ TKN	☐ Total Phosphorus	☐ Total N (as N02/N03/TKN)	☐ Oil & Grease	☐ COD	☐ TOC	☐ BOD	☐ CBOD	☐ TDS	☐ TSS	☐ Alkalinity	☐ Total Cyanide	☐ Physiologically Available Cyanide	☐ Available Cyanide	☐ pH	☐ Dissolved Oxygen	☐ Turbidity	☐ Total Coliform	☐ Fecal Coliform	☐ HPC	☐ MA DEP Asbestos in Soil	☐ Asbestos (PLM)	

Sampling DATE	TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s): NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: PAGS/1 c Bag	HCl	HNO3	H2SO4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)	KCW BV/PL M
/21	10:40	WSTP6A																				X											X
/21	10:45	WSTP7A																				X											X
21	10:50	WSTP8 A																				X											X
21	10:50	WSTP8 B																				X											X
21	10:50	WSTP8 C																				X											X
21	10:50	WSTP8 D																				X											X
21	10:00	WSTP10A																				X											X
21	11:00	WSTP10B																				X											X

REMARKS / SPECIAL INSTRUCTIONS

- ☒ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample Included. (Volatile analyses require duplicate collection and Trip Blanks).
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO CT RCP Data Certification required.

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☒ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☐ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler:	10/21/10	9:26a	Received by:	Receipt Temperature: ☒ Ice ☐ Refrigerated 2-8°C Recommended 2.0C
Relinquished by:	Date	Time	Received by:	Container Count:
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 14:58**	Analyzed:	**10-24-10 15:34**
Matrix:	**Soil**	Analyst:	**EMC**	Analyst:	**EMC**
Units:	**ug/kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	50	51	**103** %	50	46	**91** %	**12** %	70 - 130 %	20%
74-87-3	Chloromethane	50	48	**96** %	50	42	**85** %	**12** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	50	57	**113** %	50	52	**104** %	**8** %	70 - 130 %	20%
74-83-9	Bromomethane	50	53	**105** %	50	47	**94** %	**11** %	70 - 130 %	20%
75-00-3	Chloroethane	50	49	**97** %	50	47	**93** %	**4** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	50	51	**102** %	50	45	**89** %	**13** %	70 - 130 %	20%
60-29-7	Diethyl Ether	100	89	**89** %	100	82	**82** %	**9** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	50	53	**106** %	50	49	**98** %	**8** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	100	120	**121** %	100	110	**109** %	**11** %	70 - 130 %	20%
67-64-1	Acetone	100	84	**84** %	100	87	**87** %	**4** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	100	84	**84** %	100	81	**81** %	**3** %	70 - 130 %	20%
75-09-2	Methylene Chloride	50	59	**119** %	50	51	**102** %	**15** %	70 - 130 %	20%
107-13-1	Acrylonitrile	50	43	**86** %	50	39	**77** %	**11** %	70 - 130 %	20%
156-60-5	*trans*-1,2-Dichloroethene	50	47	**94** %	50	46	**92** %	**2** %	70 - 130 %	20%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	50	40	**81** %	50	44	**88** %	**8** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	50	48	**96** %	50	44	**89** %	**8** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	50	50	**100** %	50	46	**93** %	**8** %	70 - 130 %	20%
156-59-2	*cis*-1,2-Dichloroethene	50	53	**106** %	50	50	**100** %	**6** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	100	92	**92** %	100	91	**91** %	**0** %	70 - 130 %	20%
74-97-5	Bromochloromethane	50	50	**101** %	50	51	**102** %	**1** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	100	81	**81** %	100	85	**85** %	**5** %	70 - 130 %	20%
67-66-3	Chloroform	50	51	**102** %	50	48	**95** %	**6** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	50	47	**94** %	50	44	**88** %	**7** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	50	50	**99** %	50	46	**92** %	**7** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	50	52	**104** %	50	47	**95** %	**9** %	70 - 130 %	20%
71-43-2	Benzene	50	50	**99** %	50	49	**98** %	**1** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	50	42	**84** %	50	44	**89** %	**5** %	70 - 130 %	20%
79-01-6	Trichloroethene	50	50	**100** %	50	48	**97** %	**4** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	50	45	**90** %	50	43	**87** %	**3** %	70 - 130 %	20%
74-95-3	Dibromomethane	50	42	**84** %	50	44	**88** %	**4** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	50	48	**97** %	50	48	**96** %	**0** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	1,000	770	**77** %	1,000	800	**80** %	**5** %	70 - 130 %	20%
10061-01-5	*cis*-1,3-Dichloropropene	50	47	**94** %	50	47	**94** %	**1** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	100	89	**89** %	100	90	**90** %	**1** %	70 - 130 %	20%
108-88-3	Toluene	50	52	**103** %	50	49	**98** %	**5** %	70 - 130 %	20%
10061-02-6	*trans*-1,3-Dichloropropene	50	46	**92** %	50	43	**86** %	**7** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	50	46	**91** %	50	43	**86** %	**6** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	50	59	**118** %	50	50	**100** %	**16** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	50	47	**94** %	50	43	**86** %	**10** %	70 - 130 %	20%
591-78-6	2-Hexanone	100	84	**84** %	100	81	**81** %	**3** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	50	46	**91** %	50	44	**87** %	**4** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	50	47	**94** %	50	43	**87** %	**8** %	70 - 130 %	20%
108-90-7	Chlorobenzene	50	51	**102** %	50	47	**93** %	**9** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	50	53	**105** %	50	49	**98** %	**8** %	70 - 130 %	20%
100-41-4	Ethylbenzene	50	51	**101** %	50	46	**92** %	**10** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	100	110	**113** %	100	100	**101** %	**11** %	70 - 130 %	20%
95-47-6	*ortho*-Xylene	50	53	**106** %	50	48	**96** %	**10** %	70 - 130 %	20%
100-42-5	Styrene	50	52	**103** %	50	48	**96** %	**7** %	70 - 130 %	20%
75-25-2	Bromoform	50	49	**98** %	50	49	**99** %	**1** %	70 - 130 %	20%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 14:58**	Analyzed:	**10-24-10 15:34**
Matrix:	**Soil**	Analyst:	**EMC**	Analyst:	**EMC**
Units:	**ug/kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
98-82-8	Isopropylbenzene	50	44	**87** %	50	41	**83** %	**5** %	70 - 130 %	20%
108-86-1	Bromobenzene	50	48	**96** %	50	48	**97** %	**0** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	50	38	**76** %	50	40	**79** %	**4** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	50	38	**77** %	50	43	**86** %	**12** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	180	**88** %	200	190	**93** %	**5** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	50	46	**91** %	50	45	**89** %	**2** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	50	50	**100** %	50	48	**97** %	**3** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	50	47	**94** %	50	47	**93** %	**1** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	50	45	**89** %	50	46	**92** %	**2** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	50	48	**96** %	50	45	**91** %	**5** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	50	48	**97** %	50	46	**92** %	**5** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	50	48	**95** %	50	45	**91** %	**5** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	50	46	**92** %	50	46	**92** %	**0** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	50	47	**94** %	50	49	**98** %	**4** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	50	44	**87** %	50	45	**89** %	**2** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	50	45	**89** %	50	47	**93** %	**4** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	50	49	**98** %	50	41	**82** %	**17** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	50	35	**70** %	50	36	**71** %	**1** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	50	50	**99** %	50	45	**91** %	**9** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	50	40	**80** %	50	37	**74** %	**8** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	50	39	**78** %	50	35	**71** %	**10** %	70 - 130 %	20%
91-20-3	Naphthalene	50	37	**75** %	50	37	**73** %	**2** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	50	44	**88** %	50	41	**81** %	**9** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	1,000	710	**71** %	1,000	710	**71** %	**1** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	50	44	**87** %	50	45	**91** %	**4** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	50	44	**89** %	50	44	**87** %	**1** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	50	44	**88** %	50	43	**87** %	**1** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	50	48	**96** %	50	42	**84** %		70 - 130 %
1,2-Dichloroethane-d_4	50	46	**92** %	50	43	**87** %		70 - 130 %
Toluene-d_8	50	55	**110** %	50	49	**98** %		70 - 130 %
4-Bromofluorobenzene	50	51	**101** %	50	44	**88** %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5035A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 16:10**
Matrix:	**Soil**	Analyst:	**EMC**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5
95-47-6	*ortho*- Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 16:10**
Matrix:	**Soil**	Analyst:	**EMC**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	43	**86** %	70 - 130 %
1,2-Dichloroethane-d_4	50	36	**73** %	70 - 130 %
Toluene-d_8	50	47	**93** %	70 - 130 %
4-Bromofluorobenzene	50	53	**106** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5035A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

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Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

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GROUNDWATER ANALYTICAL

e-mail

To:	Sean Healey	From:	e-mail reporting GWA
	Weston & Sampson -	Pages:	105
e-mail:	healeys@wseinc.com	Date:	10/28/2010 16:53:20
Re:	137186	CC:	

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply

● Comments:

Final Project Report for New Bedford, Brook St., Lab ID 137186, Received 10-19-10

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October 28, 2010

Mr. Sean Healey
Weston & Sampson, Inc.
5 Centennial Drive
Peabody, MA 01960

LABORATORY REPORT

Project: **New Bedford, Brook St.**
Lab ID: **137186**
Received: **10-19-10**

Dear Sean:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**New Bedford, Brook St.**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137186**	Lab Receipt:	**10-19-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-1	WS TP-1 (8-10)		Soil	10/18/10 10:15	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304636	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304629	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304612	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1297522	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-2	WS TP-2 (0-3)		Soil	10/18/10 10:45	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304632	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304608	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304588	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1297521	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-3	WS TP-3 (0-3)		Soil	10/18/10 12:00	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304637	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304633	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304631	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1306465	40 mL VOA Vial	n/a	n/a	Methanol	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-4	WS TP-4 (0-3)		Soil	10/18/10 12:30	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304624	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304594	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304591	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1306468	40 mL VOA Vial	n/a	n/a	Methanol	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-6	WS TP-5 (0-3)		Soil	10/18/10 13:20	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304609	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304603	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304590	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1306467	40 mL VOA Vial	n/a	n/a	Methanol	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-8	WS TP-6 (0-3)		Soil	10/18/10 14:10	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304627	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304621	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304578	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1297556	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford, Brook St.**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137186**	Lab Receipt:	**10-19-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-9	WS TP-7 (0-3)		Soil	10/18/10 14:30	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304626	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304623	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1311964	40 mL VOA Vial	Proline	BX37593	n/a	R-6272B	10-13-10	n/a		
C1297543	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-10	WS TP-8 (0-3)		Soil	10/18/10 15:05	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304635	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304596	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304568	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1306511	40 mL VOA Vial	n/a	n/a	Methanol	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-11	WS TP-9 (0-3)		Soil	10/18/10 15:35	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304688	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		
C1304630	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304616	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304598	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-12	WS TP-9A (0-3)		Soil	10/18/10 16:00	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304649	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		
C1304625	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304599	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304558	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-13	WS TP-10 (0-3)		Soil	10/18/10 16:30	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304668	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		
C1304617	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304614	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		
C1304575	40 mL VOA Vial	Proline	BX37528	n/a	R-6272C	10-05-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-14	WS TP-1 (8-10)		Soil	10/18/10 10:15	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306164	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-15	WS TP-2 (0-3)		Soil	10/18/10 10:45	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306159	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford, Brook St.**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137186**	Lab Receipt:	**10-19-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-16	WS TP-3 (0-3)		Soil	10/18/10 12:00	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297400	250 mL Amber Glass	Proline	BX37496	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-17	WS TP-4 (0-3)		Soil	10/18/10 12:30	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306158	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-18	WS TP-5 (0-3)		Soil	10/18/10 13:20	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306156	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-19	WS TP-6 (0-3)		Soil	10/18/10 14:10	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306162	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-20	WS TP-7 (0-3)		Soil	10/18/10 14:30	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306160	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-21	WS TP-8 (0-3)		Soil	10/18/10 15:05	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306167	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-22	WS TP-9 (0-3)		Soil	10/18/10 15:35	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306161	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-23	WS TP-9 (0-3) MS		Soil	10/18/10 15:35	EPA 6010B/7471A 8 RCRA Metals				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306165	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford, Brook St.**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137186**	Lab Receipt:	**10-19-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-24	WS TP-9 (0-3) MSD		Soil	10/18/10 15:35	EPA 6010B/7471A 8 RCRA Metals				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306510	250 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-25	WS TP-9A (0-3)		Soil	10/18/10 16:00	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306166	250 mL Amber Glass	Proline	BX37609	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-26	WS TP-10 (0-3)		Soil	10/18/10 16:30	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306130	250 mL Amber Glass	Proline	BX37606	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-27	ACM-1		Solid	10/18/10 14:10	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-28	ACM-2		Solid	10/18/10 14:15	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-29	ACM-3		Solid	10/18/10 14:40	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-30	ACM-4		Solid	10/18/10 15:05	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-31	ACM-5		Solid	10/18/10 16:20	Asbestos Bulk PLM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-32	WS TP-1 (8-10)		Soil	10/18/10 10:15	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297523	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-33	WS TP-2 (0-3)		Soil	10/18/10 10:45	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297541	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford, Brook St.**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137186**	Lab Receipt:	**10-19-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-34	WS TP-3 (0-3)		Soil	10/18/10 12:00	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297535	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-35	WS TP-4 (0-3)		Soil	10/18/10 12:30	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304648	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-36	WS TP-5 (0-3)		Soil	10/18/10 13:20	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297536	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-37	WS TP-6 (0-3)		Soil	10/18/10 14:10	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1306497	40 mL VOA Vial	n/a	n/a	Methanol	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-38	WS TP-7 (0-3)		Soil	10/18/10 14:20	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297540	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-39	WS TP-8 (0-3)		Soil	10/18/10 15:05	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304689	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-40	WS TP-9 (0-3)		Soil	10/18/10 15:35	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304669	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-41	WS TP-9A (0-3)		Soil	10/18/10 16:00	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1297555	40 mL VOA Vial	Scientific Products LLC	BX37499	HNO3	R-6113E	10-15-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137186-42	WS TP-10 (0-3)		Soil	10/18/10 16:30	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1304707	40 mL VOA Vial	Proline	BX37529	Methanol	R-6268C	10-05-10	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**New Bedford, Brook St.**	Lab ID:	**137186**
Client:	**Weston & Sampson, Inc.**	Received:	**10-19-10 18:00**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8260B:	137186-1,-2,-3,-4,-6,-8,-9,-10,-11,-12,-13
EPA 8082:	137186-14,-15,-16,-17,-18,-19,-20,-21,-22,-25,-26
MA DEP VPH:	137186-32,-33,-34,-35,-36,-37,-38,-39,-40,-41,-42
MA DEP EPH:	137186-14,-15,-16,-17,-18,-19,-20,-21,-22,-25,-26
EPA 6010B:	137186-14,-15,-16,-17,-18,-19,-20,-21,-22,-23,-24,-25,-26
EPA 7470A/1A:	137186-14,-15,-16,-17,-18,-19,-20,-21,-22,-23,-24,-25,-26

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B (X)	Mass DEP VPH CAM IV A (X)	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	No
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	No

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:		Position:	Operations Manager
Printed Name:	Eric H. Jensen	Date:	10-28-10

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-1 (8-10)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-1**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 10:15**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**5.0 g**
Analyzed:	**10-25-10 08:53**	% Solids:	**44**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	22
74-87-3	Chloromethane	BRL		ug/Kg	22
75-01-4	Vinyl Chloride	BRL		ug/Kg	22
74-83-9	Bromomethane	BRL		ug/Kg	22
75-00-3	Chloroethane	BRL		ug/Kg	22
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	22
60-29-7	Diethyl Ether	BRL		ug/Kg	22
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	11
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	110
67-64-1	Acetone	BRL		ug/Kg	450
75-15-0	Carbon Disulfide	BRL		ug/Kg	110
75-09-2	Methylene Chloride	BRL		ug/Kg	110
107-13-1	Acrylonitrile	BRL		ug/Kg	11
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	11
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	11
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	11
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	11
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	11
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	110
74-97-5	Bromochloromethane	BRL		ug/Kg	11
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	110
67-66-3	Chloroform	BRL		ug/Kg	11
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	11
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	11
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	11
71-43-2	Benzene	BRL		ug/Kg	11
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	11
79-01-6	Trichloroethene	BRL		ug/Kg	11
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	11
74-95-3	Dibromomethane	BRL		ug/Kg	11
75-27-4	Bromodichloromethane	BRL		ug/Kg	11
123-91-1	1,4-Dioxane	BRL		ug/Kg	11,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	11
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	110
108-88-3	Toluene	BRL		ug/Kg	11
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	11
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	11
127-18-4	Tetrachloroethene	BRL		ug/Kg	11
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	11
591-78-6	2-Hexanone	BRL		ug/Kg	110
124-48-1	Dibromochloromethane	BRL		ug/Kg	11
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	11
108-90-7	Chlorobenzene	BRL		ug/Kg	11
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	11
100-41-4	Ethylbenzene	BRL		ug/Kg	11
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	11

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-1 (8-10)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-1**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 10:15**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**5.0 g**
Analyzed:	**10-25-10 08:53**	% Solids:	**44**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	11
100-42-5	Styrene	BRL		ug/Kg	11
75-25-2	Bromoform	BRL		ug/Kg	11
98-82-8	Isopropylbenzene	BRL		ug/Kg	11
108-86-1	Bromobenzene	BRL		ug/Kg	11
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	11
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	11
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	110
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	11
95-49-8	2-Chlorotoluene	BRL		ug/Kg	11
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	11
106-43-4	4-Chlorotoluene	BRL		ug/Kg	11
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	11
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	11
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	11
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	11
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	11
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	11
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	11
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	11
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	11
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	11
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	11
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	11
91-20-3	Naphthalene	BRL		ug/Kg	11
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	11
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	450
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	11
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	11
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	11

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	60	**120** %	70 - 130 %
1,2-Dichloroethane-d_4	50	48	**96** %	70 - 130 %
Toluene-d_8	50	52	**105** %	70 - 130 %
4-Bromofluorobenzene	50	52	**105** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-2 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-2**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 10:45**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**5.2 g**
Analyzed:	**10-24-10 21:16**	% Solids:	**85**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	11
74-87-3	Chloromethane	BRL		ug/Kg	11
75-01-4	Vinyl Chloride	BRL		ug/Kg	11
74-83-9	Bromomethane	BRL		ug/Kg	11
75-00-3	Chloroethane	BRL		ug/Kg	11
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	11
60-29-7	Diethyl Ether	BRL		ug/Kg	11
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	6
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	57
67-64-1	Acetone	BRL		ug/Kg	230
75-15-0	Carbon Disulfide	BRL		ug/Kg	57
75-09-2	Methylene Chloride	BRL		ug/Kg	57
107-13-1	Acrylonitrile	BRL		ug/Kg	6
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	6
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	6
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	6
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	6
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	6
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	57
74-97-5	Bromochloromethane	BRL		ug/Kg	6
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	57
67-66-3	Chloroform	BRL		ug/Kg	6
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	6
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	6
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	6
71-43-2	Benzene	BRL		ug/Kg	6
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	6
79-01-6	Trichloroethene	BRL		ug/Kg	6
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	6
74-95-3	Dibromomethane	BRL		ug/Kg	6
75-27-4	Bromodichloromethane	BRL		ug/Kg	6
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,700
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	6
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	57
108-88-3	Toluene	BRL		ug/Kg	6
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	6
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	6
127-18-4	Tetrachloroethene	BRL		ug/Kg	6
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	6
591-78-6	2-Hexanone	BRL		ug/Kg	57
124-48-1	Dibromochloromethane	BRL		ug/Kg	6
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	6
108-90-7	Chlorobenzene	BRL		ug/Kg	6
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	6
100-41-4	Ethylbenzene	BRL		ug/Kg	6
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	6

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-2 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-2**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 10:45**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**5.2 g**
Analyzed:	**10-24-10 21:16**	% Solids:	**85**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	6
100-42-5	Styrene	BRL		ug/Kg	6
75-25-2	Bromoform	BRL		ug/Kg	6
98-82-8	Isopropylbenzene	BRL		ug/Kg	6
108-86-1	Bromobenzene	BRL		ug/Kg	6
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	6
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	6
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	57
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	6
95-49-8	2-Chlorotoluene	BRL		ug/Kg	6
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	6
106-43-4	4-Chlorotoluene	BRL		ug/Kg	6
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	6
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	6
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	6
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	6
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	6
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	6
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	6
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	6
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	6
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	6
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	6
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	6
91-20-3	Naphthalene	**16**		ug/Kg	6
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	6
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	230
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	6
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	6
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	6

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	48	**97** %	70 - 130 %
1,2-Dichloroethane-d_4	50	41	**82** %	70 - 130 %
Toluene-d_8	50	50	**100** %	70 - 130 %
4-Bromofluorobenzene	50	56	**112** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-3**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 12:00**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**6.6 g**
Analyzed:	**10-24-10 21:53**	% Solids:	**86**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-3**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 12:00**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**6.6 g**
Analyzed:	**10-24-10 21:53**	% Solids:	**86**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	**58**		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	47	**94** %	70 - 130 %
1,2-Dichloroethane-d_4	50	42	**84** %	70 - 130 %
Toluene-d_8	50	51	**103** %	70 - 130 %
4-Bromofluorobenzene	50	60	**121** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-4 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-4**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 12:30**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**8.6 g**
Analyzed:	**10-24-10 22:30**	% Solids:	**88**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-4 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-4**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 12:30**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**8.6 g**
Analyzed:	**10-24-10 22:30**	% Solids:	**88**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	52	**104** %	70 - 130 %
1,2-Dichloroethane-d_4	50	41	**81** %	70 - 130 %
Toluene-d_8	50	49	**99** %	70 - 130 %
4-Bromofluorobenzene	50	55	**109** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-5 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-6**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 13:20**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**6.5 g**
Analyzed:	**10-24-10 23:07**	% Solids:	**87**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-5 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-6**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 13:20**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**6.5 g**
Analyzed:	**10-24-10 23:07**	% Solids:	**87**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	54	**107** %	70 - 130 %
1,2-Dichloroethane-d_4	50	43	**86** %	70 - 130 %
Toluene-d_8	50	53	**106** %	70 - 130 %
4-Bromofluorobenzene	50	57	**114** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-6 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-8**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 14:10**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**5.6 g**
Analyzed:	**10-25-10 09:31**	% Solids:	**83**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	11
74-87-3	Chloromethane	BRL		ug/Kg	11
75-01-4	Vinyl Chloride	BRL		ug/Kg	11
74-83-9	Bromomethane	BRL		ug/Kg	11
75-00-3	Chloroethane	BRL		ug/Kg	11
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	11
60-29-7	Diethyl Ether	BRL		ug/Kg	11
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	54
67-64-1	Acetone	BRL		ug/Kg	210
75-15-0	Carbon Disulfide	BRL		ug/Kg	54
75-09-2	Methylene Chloride	BRL		ug/Kg	54
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	54
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	54
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,400
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	54
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	54
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-6 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-8**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 14:10**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**5.6 g**
Analyzed:	**10-25-10 09:31**	% Solids:	**83**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	54
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	210
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	54	**107** %	70 - 130 %
1,2-Dichloroethane-d_4	50	36	**72** %	70 - 130 %
Toluene-d_8	50	52	**105** %	70 - 130 %
4-Bromofluorobenzene	50	49	**97** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-7 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-9**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 14:30**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**4.9 g**
Analyzed:	**10-25-10 00:21**	% Solids:	**82**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	12
74-87-3	Chloromethane	BRL		ug/Kg	12
75-01-4	Vinyl Chloride	BRL		ug/Kg	12
74-83-9	Bromomethane	BRL		ug/Kg	12
75-00-3	Chloroethane	BRL		ug/Kg	12
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	12
60-29-7	Diethyl Ether	BRL		ug/Kg	12
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	6
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	62
67-64-1	Acetone	BRL		ug/Kg	250
75-15-0	Carbon Disulfide	BRL		ug/Kg	62
75-09-2	Methylene Chloride	BRL		ug/Kg	62
107-13-1	Acrylonitrile	BRL		ug/Kg	6
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	6
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	6
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	6
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	6
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	6
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	62
74-97-5	Bromochloromethane	BRL		ug/Kg	6
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	62
67-66-3	Chloroform	BRL		ug/Kg	6
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	6
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	6
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	6
71-43-2	Benzene	BRL		ug/Kg	6
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	6
79-01-6	Trichloroethene	BRL		ug/Kg	6
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	6
74-95-3	Dibromomethane	BRL		ug/Kg	6
75-27-4	Bromodichloromethane	BRL		ug/Kg	6
123-91-1	1,4-Dioxane	BRL		ug/Kg	6,200
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	6
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	62
108-88-3	Toluene	BRL		ug/Kg	6
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	6
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	6
127-18-4	Tetrachloroethene	BRL		ug/Kg	6
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	6
591-78-6	2-Hexanone	BRL		ug/Kg	62
124-48-1	Dibromochloromethane	BRL		ug/Kg	6
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	6
108-90-7	Chlorobenzene	BRL		ug/Kg	6
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	6
100-41-4	Ethylbenzene	BRL		ug/Kg	6
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	6

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-7 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-9**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 14:30**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**4.9 g**
Analyzed:	**10-25-10 00:21**	% Solids:	**82**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	6
100-42-5	Styrene	BRL		ug/Kg	6
75-25-2	Bromoform	BRL		ug/Kg	6
98-82-8	Isopropylbenzene	BRL		ug/Kg	6
108-86-1	Bromobenzene	BRL		ug/Kg	6
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	6
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	6
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	62
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	6
95-49-8	2-Chlorotoluene	BRL		ug/Kg	6
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	6
106-43-4	4-Chlorotoluene	BRL		ug/Kg	6
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	6
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	6
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	6
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	6
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	6
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	6
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	6
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	6
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	6
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	6
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	6
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	6
91-20-3	Naphthalene	**69**		ug/Kg	6
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	6
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	250
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	6
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	6
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	6

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	61	**121** %	70 - 130 %
1,2-Dichloroethane-d_4	50	41	**83** %	70 - 130 %
Toluene-d_8	50	58	**117** %	70 - 130 %
4-Bromofluorobenzene	50	58	**117** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-10**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 15:05**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**6.8 g**
Analyzed:	**10-25-10 00:58**	% Solids:	**84**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-10**	QC Batch ID:	**VM1-2940-S**
Sampled:	**10-18-10 15:05**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**6.8 g**
Analyzed:	**10-25-10 00:58**	% Solids:	**84**
Analyst:	**EMC**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	53	**106** %	70 - 130 %
1,2-Dichloroethane-d_4	50	43	**86** %	70 - 130 %
Toluene-d_8	50	52	**104** %	70 - 130 %
4-Bromofluorobenzene	50	48	**96** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-9 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-11**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 15:35**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**7.0 g**
Analyzed:	**10-25-10 10:09**	% Solids:	**88**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-9 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-11**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 15:35**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**7.0 g**
Analyzed:	**10-25-10 10:09**	% Solids:	**88**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	59	**117** %	70 - 130 %
1,2-Dichloroethane-d_4	50	46	**91** %	70 - 130 %
Toluene-d_8	50	52	**105** %	70 - 130 %
4-Bromofluorobenzene	50	47	**94** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-9A (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-12**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 16:00**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**7.1 g**
Analyzed:	**10-25-10 10:47**	% Solids:	**87**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-9A (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-12**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 16:00**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**7.1 g**
Analyzed:	**10-25-10 10:47**	% Solids:	**87**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	61	**123** %	70 - 130 %
1,2-Dichloroethane-d_4	50	41	**82** %	70 - 130 %
Toluene-d_8	50	59	**117** %	70 - 130 %
4-Bromofluorobenzene	50	49	**98** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**WS TP-10 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-13**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 16:30**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**4.4 g**
Analyzed:	**10-25-10 11:27**	% Solids:	**79**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	14
74-87-3	Chloromethane	BRL		ug/Kg	14
75-01-4	Vinyl Chloride	BRL		ug/Kg	14
74-83-9	Bromomethane	BRL		ug/Kg	14
75-00-3	Chloroethane	BRL		ug/Kg	14
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	14
60-29-7	Diethyl Ether	BRL		ug/Kg	14
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	7
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	72
67-64-1	Acetone	BRL		ug/Kg	290
75-15-0	Carbon Disulfide	BRL		ug/Kg	72
75-09-2	Methylene Chloride	BRL		ug/Kg	72
107-13-1	Acrylonitrile	BRL		ug/Kg	7
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	7
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	7
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	7
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	7
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	7
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	72
74-97-5	Bromochloromethane	BRL		ug/Kg	7
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	72
67-66-3	Chloroform	BRL		ug/Kg	7
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	7
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	7
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	7
71-43-2	Benzene	BRL		ug/Kg	7
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	7
79-01-6	Trichloroethene	BRL		ug/Kg	7
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	7
74-95-3	Dibromomethane	BRL		ug/Kg	7
75-27-4	Bromodichloromethane	BRL		ug/Kg	7
123-91-1	1,4-Dioxane	BRL		ug/Kg	7,200
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	7
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	72
108-88-3	Toluene	BRL		ug/Kg	7
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	7
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	7
127-18-4	Tetrachloroethene	BRL		ug/Kg	7
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	7
591-78-6	2-Hexanone	BRL		ug/Kg	72
124-48-1	Dibromochloromethane	BRL		ug/Kg	7
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	7
108-90-7	Chlorobenzene	BRL		ug/Kg	7
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	7
100-41-4	Ethylbenzene	BRL		ug/Kg	7
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	7

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**WS TP-10 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Frozen**
Laboratory ID:	**137186-13**	QC Batch ID:	**VM1-2941-S**
Sampled:	**10-18-10 16:30**	Instrument ID:	**MS-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**4.4 g**
Analyzed:	**10-25-10 11:27**	% Solids:	**79**
Analyst:	**LMG**	Dilution Factor:	**1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*-Xylene	BRL		ug/Kg	7
100-42-5	Styrene	BRL		ug/Kg	7
75-25-2	Bromoform	BRL		ug/Kg	7
98-82-8	Isopropylbenzene	BRL		ug/Kg	7
108-86-1	Bromobenzene	BRL		ug/Kg	7
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	7
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	7
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	72
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	7
95-49-8	2-Chlorotoluene	BRL		ug/Kg	7
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	7
106-43-4	4-Chlorotoluene	BRL		ug/Kg	7
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	7
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	7
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	7
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	7
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	7
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	7
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	7
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	7
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	7
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	7
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	7
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	7
91-20-3	Naphthalene	BRL		ug/Kg	7
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	7
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	290
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	7
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	7
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	7

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	64	**128** %	70 - 130 %
1,2-Dichloroethane-d_4	50	45	**89** %	70 - 130 %
Toluene-d_8	50	56	**112** %	70 - 130 %
4-Bromofluorobenzene	50	49	**98** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-1 (8-10)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-14**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 10:15**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 19:25**	% Solids:	**44**
Analyzed (AR):	**10-25-10 20:09**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**5**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	44
n-C19 to n-C36 Aliphatic Hydrocarbons †	**960**		mg/Kg	44
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**1,200**		mg/Kg	220
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,600		mg/Kg	220

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	5.5
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	5.5
85-01-8	Phenanthrene	**48**		mg/Kg	5.5
83-32-9	Acenaphthene	BRL		mg/Kg	5.5
208-96-8	Acenaphthylene	BRL		mg/Kg	5.5
86-73-7	Fluorene	BRL		mg/Kg	5.5
120-12-7	Anthracene	**12**		mg/Kg	5.5
206-44-0	Fluoranthene	**77**		mg/Kg	5.5
129-00-0	Pyrene	**57**		mg/Kg	5.5
56-55-3	Benzo[a]anthracene	**30**		mg/Kg	5.5
218-01-9	Chrysene	**32**		mg/Kg	5.5
205-99-2	Benzo[b]fluoranthene	**35**		mg/Kg	5.5
207-08-9	Benzo[k]fluoranthene	**17**		mg/Kg	5.5
50-32-8	Benzo[a]pyrene	**26**		mg/Kg	5.5
193-39-5	Indeno[1,2,3-c,d]pyrene	**16**		mg/Kg	5.5
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	5.5
191-24-2	Benzo[g,h,i]perylene	**14**		mg/Kg	5.5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	5.8	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	5.8	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	5.8	2.7	**46** %	40 - 140 %
	ortho-Terphenyl	5.8	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-2 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-15**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 10:45**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 20:53**	% Solids:	**85**
Analyzed (AR):	**10-25-10 21:37**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**10**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	23
n-C19 to n-C36 Aliphatic Hydrocarbons †	**170**		mg/Kg	23
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**980**		mg/Kg	230
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,500		mg/Kg	230

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	5.7
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	5.7
85-01-8	Phenanthrene	**91**		mg/Kg	5.7
83-32-9	Acenaphthene	**12**		mg/Kg	5.7
208-96-8	Acenaphthylene	BRL		mg/Kg	5.7
86-73-7	Fluorene	**11**		mg/Kg	5.7
120-12-7	Anthracene	**21**		mg/Kg	5.7
206-44-0	Fluoranthene	**90**		mg/Kg	5.7
129-00-0	Pyrene	**69**		mg/Kg	5.7
56-55-3	Benzo[a]anthracene	**34**		mg/Kg	5.7
218-01-9	Chrysene	**36**		mg/Kg	5.7
205-99-2	Benzo[b]fluoranthene	**29**		mg/Kg	5.7
207-08-9	Benzo[k]fluoranthene	**21**		mg/Kg	5.7
50-32-8	Benzo[a]pyrene	**25**		mg/Kg	5.7
193-39-5	Indeno[1,2,3-c,d]pyrene	**14**		mg/Kg	5.7
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	5.7
191-24-2	Benzo[g,h,i]perylene	**12**		mg/Kg	5.7

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.1	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.1	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.1	1.9	**62** %	40 - 140 %
	ortho-Terphenyl	3.1	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-16**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 12:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**16 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-22-10 11:41**	% Solids:	**86**
Analyzed (AR):	**10-22-10 12:25**	Aliphatic Dilution Factor:	**5**
Analyst:	**KM**	Aromatic Dilution Factor:	**5**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	110
n-C19 to n-C36 Aliphatic Hydrocarbons †	**360**		mg/Kg	110
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**920**		mg/Kg	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,400		mg/Kg	110

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	**5.3**		mg/Kg	2.8
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	2.8
85-01-8	Phenanthrene	**76**	e	mg/Kg	2.8
83-32-9	Acenaphthene	**9.4**		mg/Kg	2.8
208-96-8	Acenaphthylene	BRL		mg/Kg	2.8
86-73-7	Fluorene	**9.9**		mg/Kg	2.8
120-12-7	Anthracene	**20**		mg/Kg	2.8
206-44-0	Fluoranthene	**77**	e	mg/Kg	2.8
129-00-0	Pyrene	**63**		mg/Kg	2.8
56-55-3	Benzo[a]anthracene	**35**		mg/Kg	2.8
218-01-9	Chrysene	**38**		mg/Kg	2.8
205-99-2	Benzo[b]fluoranthene	**35**		mg/Kg	2.8
207-08-9	Benzo[k]fluoranthene	**13**		mg/Kg	2.8
50-32-8	Benzo[a]pyrene	**29**		mg/Kg	2.8
193-39-5	Indeno[1,2,3-c,d]pyrene	**17**		mg/Kg	2.8
53-70-3	Dibenzo[a,h]anthracene	**4.5**		mg/Kg	2.8
191-24-2	Benzo[g,h,i]perylene	**13**		mg/Kg	2.8

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	2.9	2.2	**74** %	40 - 140 %
	2-Bromonaphthalene	2.9	2.3	**78** %	40 - 140 %
Extraction:	Chloro-octadecane	2.9	n/a	**d**	40 - 140 %
	ortho-Terphenyl	2.9	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-16RA1**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 12:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**16 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 22:21**	% Solids:	**86**
Analyzed (AR):	**10-25-10 23:05**	Aliphatic Dilution Factor:	**5**
Analyst:	**KM**	Aromatic Dilution Factor:	**10**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	110
n-C19 to n-C36 Aliphatic Hydrocarbons †	**280**		mg/Kg	110
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**1,000**		mg/Kg	220
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,500		mg/Kg	220

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	5.5
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	5.5
85-01-8	Phenanthrene	**78**		mg/Kg	5.5
83-32-9	Acenaphthene	**9.4**		mg/Kg	5.5
208-96-8	Acenaphthylene	BRL		mg/Kg	5.5
86-73-7	Fluorene	**9.2**		mg/Kg	5.5
120-12-7	Anthracene	**19**		mg/Kg	5.5
206-44-0	Fluoranthene	**83**		mg/Kg	5.5
129-00-0	Pyrene	**66**		mg/Kg	5.5
56-55-3	Benzo[a]anthracene	**35**		mg/Kg	5.5
218-01-9	Chrysene	**37**		mg/Kg	5.5
205-99-2	Benzo[b]fluoranthene	**38**		mg/Kg	5.5
207-08-9	Benzo[k]fluoranthene	**14**		mg/Kg	5.5
50-32-8	Benzo[a]pyrene	**29**		mg/Kg	5.5
193-39-5	Indeno[1,2,3-c,d]pyrene	**17**		mg/Kg	5.5
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	5.5
191-24-2	Benzo[g,h,i]perylene	**14**		mg/Kg	5.5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	2.9	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	2.9	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	2.9	n/a	**d**	40 - 140 %
	ortho-Terphenyl	2.9	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-4 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-17**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 12:30**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 23:49**	% Solids:	**88**
Analyzed (AR):	**10-26-10 00:33**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**5**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	22
n-C19 to n-C36 Aliphatic Hydrocarbons †	**130**		mg/Kg	22
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**340**		mg/Kg	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	470		mg/Kg	110

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	2.8
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	2.8
85-01-8	Phenanthrene	**22**		mg/Kg	2.8
83-32-9	Acenaphthene	BRL		mg/Kg	2.8
208-96-8	Acenaphthylene	BRL		mg/Kg	2.8
86-73-7	Fluorene	BRL		mg/Kg	2.8
120-12-7	Anthracene	**6.0**		mg/Kg	2.8
206-44-0	Fluoranthene	**25**		mg/Kg	2.8
129-00-0	Pyrene	**20**		mg/Kg	2.8
56-55-3	Benzo[a]anthracene	**10**		mg/Kg	2.8
218-01-9	Chrysene	**11**		mg/Kg	2.8
205-99-2	Benzo[b]fluoranthene	**9.2**		mg/Kg	2.8
207-08-9	Benzo[k]fluoranthene	**5.7**		mg/Kg	2.8
50-32-8	Benzo[a]pyrene	**8.0**		mg/Kg	2.8
193-39-5	Indeno[1,2,3-c,d]pyrene	**4.4**		mg/Kg	2.8
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	2.8
191-24-2	Benzo[g,h,i]perylene	**3.7**		mg/Kg	2.8

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.0	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.0	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.0	2.4	**83** %	40 - 140 %
	ortho-Terphenyl	3.0	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-5 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-18**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 13:20**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**16 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-22-10 14:37**	% Solids:	**87**
Analyzed (AR):	**10-22-10 15:21**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**1**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	22
n-C19 to n-C36 Aliphatic Hydrocarbons †	**64**		mg/Kg	22
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**98**		mg/Kg	22
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	150		mg/Kg	22

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.56
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.56
85-01-8	Phenanthrene	**6.6**		mg/Kg	0.56
83-32-9	Acenaphthene	**0.65**		mg/Kg	0.56
208-96-8	Acenaphthylene	BRL		mg/Kg	0.56
86-73-7	Fluorene	**0.72**		mg/Kg	0.56
120-12-7	Anthracene	**1.9**		mg/Kg	0.56
206-44-0	Fluoranthene	**8.5**		mg/Kg	0.56
129-00-0	Pyrene	**6.7**		mg/Kg	0.56
56-55-3	Benzo[a]anthracene	**3.8**		mg/Kg	0.56
218-01-9	Chrysene	**4.4**		mg/Kg	0.56
205-99-2	Benzo[b]fluoranthene	**4.0**		mg/Kg	0.56
207-08-9	Benzo[k]fluoranthene	**2.0**		mg/Kg	0.56
50-32-8	Benzo[a]pyrene	**3.5**		mg/Kg	0.56
193-39-5	Indeno[1,2,3-c,d]pyrene	**2.2**		mg/Kg	0.56
53-70-3	Dibenzo[a,h]anthracene	**0.59**		mg/Kg	0.56
191-24-2	Benzo[g,h,i]perylene	**1.9**		mg/Kg	0.56

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.0	2.5	**84** %	40 - 140 %
	2-Bromonaphthalene	3.0	2.6	**87** %	40 - 140 %
Extraction:	Chloro-octadecane	3.0	2.6	**88** %	40 - 140 %
	ortho-Terphenyl	3.0	3.3	**113** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-6 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-19**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 14:10**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 19:23**	% Solids:	**83**
Analyzed (AR):	**10-25-10 20:03**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**10**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	23
n-C19 to n-C36 Aliphatic Hydrocarbons †	**160**		mg/Kg	23
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**970**		mg/Kg	230
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,400		mg/Kg	230

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	5.9
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	5.9
85-01-8	Phenanthrene	**94**		mg/Kg	5.9
83-32-9	Acenaphthene	**13**		mg/Kg	5.9
208-96-8	Acenaphthylene	BRL		mg/Kg	5.9
86-73-7	Fluorene	**12**		mg/Kg	5.9
120-12-7	Anthracene	**21**		mg/Kg	5.9
206-44-0	Fluoranthene	**85**		mg/Kg	5.9
129-00-0	Pyrene	**64**		mg/Kg	5.9
56-55-3	Benzo[a]anthracene	**33**		mg/Kg	5.9
218-01-9	Chrysene	**33**		mg/Kg	5.9
205-99-2	Benzo[b]fluoranthene	**25**		mg/Kg	5.9
207-08-9	Benzo[k]fluoranthene	**21**		mg/Kg	5.9
50-32-8	Benzo[a]pyrene	**25**		mg/Kg	5.9
193-39-5	Indeno[1,2,3-c,d]pyrene	**14**		mg/Kg	5.9
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	5.9
191-24-2	Benzo[g,h,i]perylene	**12**		mg/Kg	5.9

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.1	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.1	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.1	2.0	**66** %	40 - 140 %
	ortho-Terphenyl	3.1	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-7 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-20**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 14:30**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 20:47**	% Solids:	**82**
Analyzed (AR):	**10-25-10 21:31**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**25**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	24
n-C19 to n-C36 Aliphatic Hydrocarbons †	**340**		mg/Kg	24
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**3,500**		mg/Kg	590
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	5,100		mg/Kg	590

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	**34**		mg/Kg	15
91-57-6	2-Methylnaphthalene	**22**		mg/Kg	15
85-01-8	Phenanthrene	**400**		mg/Kg	15
83-32-9	Acenaphthene	**71**		mg/Kg	15
208-96-8	Acenaphthylene	BRL		mg/Kg	15
86-73-7	Fluorene	**69**		mg/Kg	15
120-12-7	Anthracene	**110**		mg/Kg	15
206-44-0	Fluoranthene	**270**		mg/Kg	15
129-00-0	Pyrene	**210**		mg/Kg	15
56-55-3	Benzo[a]anthracene	**92**		mg/Kg	15
218-01-9	Chrysene	**87**		mg/Kg	15
205-99-2	Benzo[b]fluoranthene	**60**		mg/Kg	15
207-08-9	Benzo[k]fluoranthene	**46**		mg/Kg	15
50-32-8	Benzo[a]pyrene	**55**		mg/Kg	15
193-39-5	Indeno[1,2,3-c,d]pyrene	**26**		mg/Kg	15
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	15
191-24-2	Benzo[g,h,i]perylene	**19**		mg/Kg	15

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.2	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.2	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.2	1.6	**51** %	40 - 140 %
	ortho-Terphenyl	3.2	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-21**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 15:05**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-22-10 10:08**	% Solids:	**84**
Analyzed (AR):	**10-22-10 10:52**	Aliphatic Dilution Factor:	**5**
Analyst:	**KM**	Aromatic Dilution Factor:	**5**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	120
n-C19 to n-C36 Aliphatic Hydrocarbons †	**300**		mg/Kg	120
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**900**		mg/Kg	120
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,400		mg/Kg	120

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	**3.8**		mg/Kg	2.9
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	2.9
85-01-8	Phenanthrene	**100**	e	mg/Kg	2.9
83-32-9	Acenaphthene	**12**		mg/Kg	2.9
208-96-8	Acenaphthylene	BRL		mg/Kg	2.9
86-73-7	Fluorene	**15**		mg/Kg	2.9
120-12-7	Anthracene	**28**		mg/Kg	2.9
206-44-0	Fluoranthene	**100**	e	mg/Kg	2.9
129-00-0	Pyrene	**77**		mg/Kg	2.9
56-55-3	Benzo[a]anthracene	**40**		mg/Kg	2.9
218-01-9	Chrysene	**42**		mg/Kg	2.9
205-99-2	Benzo[b]fluoranthene	**39**		mg/Kg	2.9
207-08-9	Benzo[k]fluoranthene	**15**		mg/Kg	2.9
50-32-8	Benzo[a]pyrene	**32**		mg/Kg	2.9
193-39-5	Indeno[1,2,3-c,d]pyrene	**19**		mg/Kg	2.9
53-70-3	Dibenzo[a,h]anthracene	**5.2**		mg/Kg	2.9
191-24-2	Benzo[g,h,i]perylene	**16**		mg/Kg	2.9

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.1	2.0	**65** %	40 - 140 %
	2-Bromonaphthalene	3.1	2.0	**65** %	40 - 140 %
Extraction:	Chloro-octadecane	3.1	n/a	**d**	40 - 140 %
	ortho-Terphenyl	3.1	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-21RA1**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 15:05**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 22:15**	% Solids:	**84**
Analyzed (AR):	**10-25-10 22:59**	Aliphatic Dilution Factor:	**5**
Analyst:	**KM**	Aromatic Dilution Factor:	**10**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	120
n-C19 to n-C36 Aliphatic Hydrocarbons †	**220**		mg/Kg	120
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**1,000**		mg/Kg	230
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,600		mg/Kg	230

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	5.8
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	5.8
85-01-8	Phenanthrene	**110**		mg/Kg	5.8
83-32-9	Acenaphthene	**12**		mg/Kg	5.8
208-96-8	Acenaphthylene	BRL		mg/Kg	5.8
86-73-7	Fluorene	**14**		mg/Kg	5.8
120-12-7	Anthracene	**27**		mg/Kg	5.8
206-44-0	Fluoranthene	**100**		mg/Kg	5.8
129-00-0	Pyrene	**80**		mg/Kg	5.8
56-55-3	Benzo[a]anthracene	**40**		mg/Kg	5.8
218-01-9	Chrysene	**41**		mg/Kg	5.8
205-99-2	Benzo[b]fluoranthene	**38**		mg/Kg	5.8
207-08-9	Benzo[k]fluoranthene	**19**		mg/Kg	5.8
50-32-8	Benzo[a]pyrene	**31**		mg/Kg	5.8
193-39-5	Indeno[1,2,3-c,d]pyrene	**18**		mg/Kg	5.8
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	5.8
191-24-2	Benzo[g,h,i]perylene	**16**		mg/Kg	5.8

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.1	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.1	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.1	n/a	**d**	40 - 140 %
	ortho-Terphenyl	3.1	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-9 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-22**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 15:35**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-25-10 23:43**	% Solids:	**88**
Analyzed (AR):	**10-26-10 00:27**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**5**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	22
n-C19 to n-C36 Aliphatic Hydrocarbons †	**87**		mg/Kg	22
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**400**		mg/Kg	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	600		mg/Kg	110

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	2.8
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	2.8
85-01-8	Phenanthrene	**31**		mg/Kg	2.8
83-32-9	Acenaphthene	**3.4**		mg/Kg	2.8
208-96-8	Acenaphthylene	BRL		mg/Kg	2.8
86-73-7	Fluorene	**3.3**		mg/Kg	2.8
120-12-7	Anthracene	**7.0**		mg/Kg	2.8
206-44-0	Fluoranthene	**37**		mg/Kg	2.8
129-00-0	Pyrene	**29**		mg/Kg	2.8
56-55-3	Benzo[a]anthracene	**16**		mg/Kg	2.8
218-01-9	Chrysene	**17**		mg/Kg	2.8
205-99-2	Benzo[b]fluoranthene	**16**		mg/Kg	2.8
207-08-9	Benzo[k]fluoranthene	**9.5**		mg/Kg	2.8
50-32-8	Benzo[a]pyrene	**14**		mg/Kg	2.8
193-39-5	Indeno[1,2,3-c,d]pyrene	**8.7**		mg/Kg	2.8
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	2.8
191-24-2	Benzo[g,h,i]perylene	**7.8**		mg/Kg	2.8

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.0	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.0	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.0	2.5	**83** %	40 - 140 %
	ortho-Terphenyl	3.0	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-9A (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-25**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 16:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-26-10 01:11**	% Solids:	**87**
Analyzed (AR):	**10-26-10 01:55**	Aliphatic Dilution Factor:	**1**
Analyst:	**KM**	Aromatic Dilution Factor:	**10**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	22
n-C19 to n-C36 Aliphatic Hydrocarbons †	**78**		mg/Kg	22
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**620**		mg/Kg	220
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	980		mg/Kg	220

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	5.6
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	5.6
85-01-8	Phenanthrene	**66**		mg/Kg	5.6
83-32-9	Acenaphthene	**7.5**		mg/Kg	5.6
208-96-8	Acenaphthylene	BRL		mg/Kg	5.6
86-73-7	Fluorene	**8.5**		mg/Kg	5.6
120-12-7	Anthracene	**15**		mg/Kg	5.6
206-44-0	Fluoranthene	**69**		mg/Kg	5.6
129-00-0	Pyrene	**52**		mg/Kg	5.6
56-55-3	Benzo[a]anthracene	**26**		mg/Kg	5.6
218-01-9	Chrysene	**27**		mg/Kg	5.6
205-99-2	Benzo[b]fluoranthene	**25**		mg/Kg	5.6
207-08-9	Benzo[k]fluoranthene	**13**		mg/Kg	5.6
50-32-8	Benzo[a]pyrene	**20**		mg/Kg	5.6
193-39-5	Indeno[1,2,3-c,d]pyrene	**12**		mg/Kg	5.6
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	5.6
191-24-2	Benzo[g,h,i]perylene	**10**		mg/Kg	5.6

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.0	n/a	**d**	40 - 140 %
	2-Bromonaphthalene	3.0	n/a	**d**	40 - 140 %
Extraction:	Chloro-octadecane	3.0	1.8	**59** %	40 - 140 %
	ortho-Terphenyl	3.0	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**WS TP-10 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-26**	QC Batch ID:	**EP-3160-M**
Sampled:	**10-18-10 16:30**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-21-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**10-22-10 14:31**	% Solids:	**79**
Analyzed (AR):	**10-22-10 15:15**	Aliphatic Dilution Factor:	**5**
Analyst:	**KM**	Aromatic Dilution Factor:	**5**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	120
n-C19 to n-C36 Aliphatic Hydrocarbons †	**300**		mg/Kg	120
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**410**		mg/Kg	120
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	570		mg/Kg	120

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	3.1
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	3.1
85-01-8	Phenanthrene	**23**		mg/Kg	3.1
83-32-9	Acenaphthene	BRL		mg/Kg	3.1
208-96-8	Acenaphthylene	BRL		mg/Kg	3.1
86-73-7	Fluorene	BRL		mg/Kg	3.1
120-12-7	Anthracene	**6.0**		mg/Kg	3.1
206-44-0	Fluoranthene	**27**		mg/Kg	3.1
129-00-0	Pyrene	**22**		mg/Kg	3.1
56-55-3	Benzo[a]anthracene	**12**		mg/Kg	3.1
218-01-9	Chrysene	**14**		mg/Kg	3.1
205-99-2	Benzo[b]fluoranthene	**12**		mg/Kg	3.1
207-08-9	Benzo[k]fluoranthene	**7.1**		mg/Kg	3.1
50-32-8	Benzo[a]pyrene	**11**		mg/Kg	3.1
193-39-5	Indeno[1,2,3-c,d]pyrene	**7.0**		mg/Kg	3.1
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	3.1
191-24-2	Benzo[g,h,i]perylene	**6.0**		mg/Kg	3.1

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.3	2.5	**75** %	40 - 140 %
	2-Bromonaphthalene	3.3	2.5	**75** %	40 - 140 %
Extraction:	Chloro-octadecane	3.3	n/a	**d**	40 - 140 %
	ortho-Terphenyl	3.3	n/a	**d**	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? No
3. Were any significant modifications made to the method, as specified in Section 11.3.1.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique. Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

d Surrogate recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-1 (8-10)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-14**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 10:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**44**
Analyzed:	**10-23-10 09:44**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	180
11104-28-2	Aroclor 1221	BRL		ug/Kg	180
11141-16-5	Aroclor 1232	BRL		ug/Kg	180
53469-21-9	Aroclor 1242	BRL		ug/Kg	180
12672-29-6	Aroclor 1248	BRL		ug/Kg	180
11097-69-1	Aroclor 1254	**230**	1C (220)*	ug/Kg	180
11096-82-5	Aroclor 1260	**250**	1C (250)*	ug/Kg	180
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	180
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	180

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	29	19	**65** %	30 - 150 %
	Decachlorobiphenyl	29	24	**80** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	29	18	**63** %	30 - 150 %
	Decachlorobiphenyl	29	23	**80** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-2 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-15**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 10:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**85**
Analyzed:	**10-23-10 10:32**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	93
11104-28-2	Aroclor 1221	BRL		ug/Kg	93
11141-16-5	Aroclor 1232	BRL		ug/Kg	93
53469-21-9	Aroclor 1242	BRL		ug/Kg	93
12672-29-6	Aroclor 1248	BRL		ug/Kg	93
11097-69-1	Aroclor 1254	BRL		ug/Kg	93
11096-82-5	Aroclor 1260	**110**	2C (89)*	ug/Kg	93
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	93
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	93

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	16	10	**66** %	30 - 150 %
	Decachlorobiphenyl	16	13	**85** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	16	10	**63** %	30 - 150 %
	Decachlorobiphenyl	16	12	**79** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-16**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 12:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**86**
Analyzed:	**10-23-10 11:19**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	93
11104-28-2	Aroclor 1221	BRL		ug/Kg	93
11141-16-5	Aroclor 1232	BRL		ug/Kg	93
53469-21-9	Aroclor 1242	BRL		ug/Kg	93
12672-29-6	Aroclor 1248	BRL		ug/Kg	93
11097-69-1	Aroclor 1254	BRL		ug/Kg	93
11096-82-5	Aroclor 1260	BRL		ug/Kg	93
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	93
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	93

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	15	9	**56** %	30 - 150 %
Column	Decachlorobiphenyl	15	10	**63** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	15	8	**53** %	30 - 150 %
Column	Decachlorobiphenyl	15	12	**80** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-4 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-17**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 12:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**88**
Analyzed:	**10-23-10 11:43**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	89
11104-28-2	Aroclor 1221	BRL		ug/Kg	89
11141-16-5	Aroclor 1232	BRL		ug/Kg	89
53469-21-9	Aroclor 1242	BRL		ug/Kg	89
12672-29-6	Aroclor 1248	BRL		ug/Kg	89
11097-69-1	Aroclor 1254	BRL		ug/Kg	89
11096-82-5	Aroclor 1260	BRL		ug/Kg	89
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	89
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	89

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	15	9	**58** %	30 - 150 %
Column	Decachlorobiphenyl	15	9	**58** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	15	8	**55** %	30 - 150 %
Column	Decachlorobiphenyl	15	11	**76** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-5 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-18**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 13:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**87**
Analyzed:	**10-23-10 12:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	90
11104-28-2	Aroclor 1221	BRL		ug/Kg	90
11141-16-5	Aroclor 1232	BRL		ug/Kg	90
53469-21-9	Aroclor 1242	BRL		ug/Kg	90
12672-29-6	Aroclor 1248	BRL		ug/Kg	90
11097-69-1	Aroclor 1254	BRL		ug/Kg	90
11096-82-5	Aroclor 1260	BRL		ug/Kg	90
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	90
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	90

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	15	9	**62** %	30 - 150 %
Column	Decachlorobiphenyl	15	11	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	15	9	**59** %	30 - 150 %
Column	Decachlorobiphenyl	15	13	**90** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-6 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-19**	QC Batch ID:	**PB-3608-P**
Sampled:	**10-18-10 14:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**16 g**
Extracted:	**10-25-10 12:45**	Final Volume:	**1 mL**
Cleaned Up:	**10-27-10 17:00**	Percent Solids:	**83**
Analyzed:	**10-27-10 19:15**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	91
11104-28-2	Aroclor 1221	BRL		ug/Kg	91
11141-16-5	Aroclor 1232	BRL		ug/Kg	91
53469-21-9	Aroclor 1242	BRL		ug/Kg	91
12672-29-6	Aroclor 1248	BRL		ug/Kg	91
11097-69-1	Aroclor 1254	BRL		ug/Kg	91
11096-82-5	Aroclor 1260	BRL		ug/Kg	91
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	91
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	91

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	15	10	**65** %	30 - 150 %
	Decachlorobiphenyl	15	18	**121** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	15	11	**74** %	30 - 150 %
	Decachlorobiphenyl	15	19	**125** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-7 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-20**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 14:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**82**
Analyzed:	**10-23-10 12:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	95
11104-28-2	Aroclor 1221	BRL		ug/Kg	95
11141-16-5	Aroclor 1232	BRL		ug/Kg	95
53469-21-9	Aroclor 1242	BRL		ug/Kg	95
12672-29-6	Aroclor 1248	BRL		ug/Kg	95
11097-69-1	Aroclor 1254	BRL		ug/Kg	95
11096-82-5	Aroclor 1260	BRL		ug/Kg	95
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	95
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	95

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	16	6	**37** %	30 - 150 %
	Decachlorobiphenyl	16	8	**49** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	16	6	**36** %	30 - 150 %
	Decachlorobiphenyl	16	13	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-21**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 15:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**84**
Analyzed:	**10-23-10 13:17**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	93
11104-28-2	Aroclor 1221	BRL		ug/Kg	93
11141-16-5	Aroclor 1232	BRL		ug/Kg	93
53469-21-9	Aroclor 1242	BRL		ug/Kg	93
12672-29-6	Aroclor 1248	BRL		ug/Kg	93
11097-69-1	Aroclor 1254	BRL		ug/Kg	93
11096-82-5	Aroclor 1260	BRL		ug/Kg	93
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	93
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	93

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	16	10	**62** %	30 - 150 %
	Decachlorobiphenyl	16	13	**87** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	16	9	**58** %	30 - 150 %
	Decachlorobiphenyl	16	16	**102** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-9 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-22**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 15:35**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**88**
Analyzed:	**10-23-10 13:40**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	89
11104-28-2	Aroclor 1221	BRL		ug/Kg	89
11141-16-5	Aroclor 1232	BRL		ug/Kg	89
53469-21-9	Aroclor 1242	BRL		ug/Kg	89
12672-29-6	Aroclor 1248	BRL		ug/Kg	89
11097-69-1	Aroclor 1254	BRL		ug/Kg	89
11096-82-5	Aroclor 1260	BRL		ug/Kg	89
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	89
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	89

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	15	9	**62** %	30 - 150 %
	Decachlorobiphenyl	15	11	**75** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	15	9	**58** %	30 - 150 %
	Decachlorobiphenyl	15	13	**86** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-9A (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-25**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 16:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**87**
Analyzed:	**10-23-10 14:51**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	89
11104-28-2	Aroclor 1221	BRL		ug/Kg	89
11141-16-5	Aroclor 1232	BRL		ug/Kg	89
53469-21-9	Aroclor 1242	BRL		ug/Kg	89
12672-29-6	Aroclor 1248	BRL		ug/Kg	89
11097-69-1	Aroclor 1254	BRL		ug/Kg	89
11096-82-5	Aroclor 1260	BRL		ug/Kg	89
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	89
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	89

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	15	8	**51** %	30 - 150 %
	Decachlorobiphenyl	15	10	**65** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	15	8	**51** %	30 - 150 %
	Decachlorobiphenyl	15	10	**69** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**WS TP-10 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-26**	QC Batch ID:	**PB-3606-P**
Sampled:	**10-18-10 16:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Extracted:	**10-22-10 12:30**	Final Volume:	**1 mL**
Cleaned Up:	**10-22-10 20:30**	Percent Solids:	**79**
Analyzed:	**10-23-10 16:26**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	100
11104-28-2	Aroclor 1221	BRL		ug/Kg	100
11141-16-5	Aroclor 1232	BRL		ug/Kg	100
53469-21-9	Aroclor 1242	BRL		ug/Kg	100
12672-29-6	Aroclor 1248	BRL		ug/Kg	100
11097-69-1	Aroclor 1254	**460**	2C (410)*	ug/Kg	100
11096-82-5	Aroclor 1260	**670**	2C (650)*	ug/Kg	100
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	100
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	100

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	17	12	**72** %	30 - 150 %
	Decachlorobiphenyl	17	16	**97** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	17	11	**68** %	30 - 150 %
	Decachlorobiphenyl	17	20	**119** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-1 (8-10)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-14**	Percent Solids:	**79**
Sampled:	**10-18-10 10:15**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.48 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.9	1	10-25-10 15:48	EPA 6010B[1]
7440-39-3	Barium, Total	**55**		mg/Kg	6.6	1	10-25-10 15:48	EPA 6010B[1]
7440-43-9	Cadmium, Total	**3.9**		mg/Kg	0.66	1	10-25-10 15:48	EPA 6010B[1]
7440-47-3	Chromium, Total	**8.6**		mg/Kg	1.3	1	10-25-10 15:48	EPA 6010B[1]
7439-92-1	Lead, Total	**170**		mg/Kg	6.6	1	10-25-10 15:48	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.039**		mg/Kg	0.022	1	10-22-10 14:39	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.6	1	10-25-10 15:48	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.3	1	10-25-10 15:48	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-2 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-15**	Percent Solids:	**85**
Sampled:	**10-18-10 10:45**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.515 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.4	1	10-25-10 15:55	EPA 6010B[1]
7440-39-3	Barium, Total	**160**		mg/Kg	5.7	1	10-25-10 15:54	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.89**		mg/Kg	0.57	1	10-25-10 15:55	EPA 6010B[1]
7440-47-3	Chromium, Total	**17**		mg/Kg	1.1	1	10-25-10 15:54	EPA 6010B[1]
7439-92-1	Lead, Total	**140**		mg/Kg	5.7	1	10-25-10 15:55	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.042**		mg/Kg	0.020	1	10-22-10 14:43	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.7	1	10-25-10 15:55	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.1	1	10-25-10 15:54	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-16**	Percent Solids:	**86**
Sampled:	**10-18-10 12:00**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.49 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.6	1	10-25-10 16:01	EPA 6010B[1]
7440-39-3	Barium, Total	**130**		mg/Kg	5.9	1	10-25-10 16:01	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.84**		mg/Kg	0.59	1	10-25-10 16:01	EPA 6010B[1]
7440-47-3	Chromium, Total	**13**		mg/Kg	1.2	1	10-25-10 16:01	EPA 6010B[1]
7439-92-1	Lead, Total	**170**		mg/Kg	5.9	1	10-25-10 16:01	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.95**		mg/Kg	0.019	1	10-22-10 14:46	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.9	1	10-25-10 16:01	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 16:01	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-4 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-17**	Percent Solids:	**88**
Sampled:	**10-18-10 12:30**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.495 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.5	1	10-25-10 16:17	EPA 6010B[1]
7440-39-3	Barium, Total	**61**		mg/Kg	5.8	1	10-25-10 16:17	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.58	1	10-25-10 16:17	EPA 6010B[1]
7440-47-3	Chromium, Total	**7.1**		mg/Kg	1.2	1	10-25-10 16:17	EPA 6010B[1]
7439-92-1	Lead, Total	**86**		mg/Kg	5.8	1	10-25-10 16:17	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.41**		mg/Kg	0.019	1	10-22-10 14:49	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.8	1	10-25-10 16:17	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 16:17	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-5 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-18**	Percent Solids:	**87**
Sampled:	**10-18-10 13:20**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.49 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.5	1	10-25-10 16:21	EPA 6010B[1]
7440-39-3	Barium, Total	**58**		mg/Kg	5.9	1	10-25-10 16:21	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.69**		mg/Kg	0.59	1	10-25-10 16:21	EPA 6010B[1]
7440-47-3	Chromium, Total	**8.2**		mg/Kg	1.2	1	10-25-10 16:21	EPA 6010B[1]
7439-92-1	Lead, Total	**210**		mg/Kg	5.9	1	10-25-10 16:21	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.21**		mg/Kg	0.019	1	10-22-10 14:52	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.9	1	10-25-10 16:21	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 16:21	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-6 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-19**	Percent Solids:	**83**
Sampled:	**10-18-10 14:10**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.5 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.6	1	10-25-10 16:28	EPA 6010B[1]
7440-39-3	Barium, Total	**200**		mg/Kg	6.0	1	10-25-10 16:27	EPA 6010B[1]
7440-43-9	Cadmium, Total	**1.5**		mg/Kg	0.60	1	10-25-10 16:28	EPA 6010B[1]
7440-47-3	Chromium, Total	**44**		mg/Kg	1.2	1	10-25-10 16:27	EPA 6010B[1]
7439-92-1	Lead, Total	**240**		mg/Kg	6.0	1	10-25-10 16:28	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.95**		mg/Kg	0.020	1	10-22-10 14:55	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.0	1	10-25-10 16:28	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 16:27	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-7 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-20**	Percent Solids:	**82**
Sampled:	**10-18-10 14:30**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.52 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.5	1	10-25-10 19:49	EPA 6010B[1]
7440-39-3	Barium, Total	**200**		mg/Kg	5.9	1	10-25-10 19:49	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.74**		mg/Kg	0.59	1	10-25-10 19:49	EPA 6010B[1]
7440-47-3	Chromium, Total	**11**		mg/Kg	1.2	1	10-25-10 19:49	EPA 6010B[1]
7439-92-1	Lead, Total	**210**		mg/Kg	5.9	1	10-25-10 19:49	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.26**		mg/Kg	0.020	1	10-22-10 14:59	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.9	1	10-25-10 19:49	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 19:49	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-21**	Percent Solids:	**84**
Sampled:	**10-18-10 15:05**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.495 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.6	1	10-25-10 19:56	EPA 6010B[1]
7440-39-3	Barium, Total	**130**		mg/Kg	6.0	1	10-25-10 19:55	EPA 6010B[1]
7440-43-9	Cadmium, Total	**1.2**		mg/Kg	0.60	1	10-25-10 19:56	EPA 6010B[1]
7440-47-3	Chromium, Total	**16**		mg/Kg	1.2	1	10-25-10 19:55	EPA 6010B[1]
7439-92-1	Lead, Total	**170**		mg/Kg	6.0	1	10-25-10 19:56	EPA 6010B[1]
7439-97-6	Mercury, Total	**1.1**		mg/Kg	0.020	1	10-22-10 15:02	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.0	1	10-25-10 19:56	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 19:55	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-9 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-22**	Percent Solids:	**88**
Sampled:	**10-18-10 15:35**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.505 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.4	1	10-25-10 20:02	EPA 6010B[1]
7440-39-3	Barium, Total	**200**		mg/Kg	5.6	1	10-25-10 20:02	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.88**		mg/Kg	0.56	1	10-25-10 20:02	EPA 6010B[1]
7440-47-3	Chromium, Total	**14**		mg/Kg	1.1	1	10-25-10 20:02	EPA 6010B[1]
7439-92-1	Lead, Total	**220**		mg/Kg	5.6	1	10-25-10 20:02	EPA 6010B[1]
7439-97-6	Mercury, Total	**3.7**		mg/Kg	0.019	1	10-22-10 15:05	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.6	1	10-25-10 20:02	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.1	1	10-25-10 20:02	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
Trace Metals

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**WS TP-9 (0-3)**				
Project:	**New Bedford, Brook St.**	Laboratory ID:	**137186-22**	**137186-23**	**137186-24**
Client:	**Weston & Sampson, Inc.**	Sampled:	**10-18-10 15:35**	**10-18-10 15:35**	**10-18-10 15:35**
Matrix:	**Soil**	Received:	**10-19-10 18:00**	**10-19-10 18:00**	**10-19-10 18:00**
Container:	**250 mL Amber Glass**	% Solids:	**88**	**88**	**88**
Preservation:	**Cool**				

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Weight	DF	Analyzed	Instrument ID
Matrix Spike	EPA 6010B	MB-01913-S	EPA 3050B	10-25-10 00:00	0.5 g	1	10-25-10 18:10	ICP-1 PE 3000
Matrix Spike	EPA 7471A	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	1	10-22-10 15:09	CVAA-1 PE FIMS

CAS Number	Analyte	Unspiked Sample (mg/Kg)	MS Spiked (mg/Kg)	MS Measured (mg/Kg)	MS Recovery	MSD Spiked (mg/Kg)	MSD Measured (mg/Kg)	MSD Recovery	RPD	QC Limits Spike	QC Limits RPD
7440-38-2	Arsenic	BRL	570	510	**89 %**	550	510	**93 %**	**0 %**	75-125%	20 %
7440-39-3	Barium	200	500	650	**89 %**	500	620	**83 %**	**5 %**	75-125%	20 %
7440-43-9	Cadmium	0.9	110	96	**86 %**	110	96	**86 %**	**0 %**	75-125%	20 %
7440-47-3	Chromium	14	110	120	**99 %**	110	120	**94 %**	**0 %**	75-125%	20 %
7439-92-1	Lead	220	570	710	**85 %**	550	700	**86 %**	**1 %**	75-125%	20 %
7439-97-6	Mercury	3.7	1.0	4.7	**100 %**	1.0	5.1	**111 %**	**8 %**	75-125%	20 %
7782-49-2	Selenium	BRL	570	470	**83 %**	550	480	**87 %**	**2 %**	75-125%	20 %
7440-22-4	Silver	BRL	110	120	**109 %**	110	110	**103 %**	**9 %**	75-125%	20 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-9A (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-25**	Percent Solids:	**87**
Sampled:	**10-18-10 16:00**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01912-S	EPA 3050B	10-22-10 00:00	0.51 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.4	1	10-25-10 20:08	EPA 6010B[1]
7440-39-3	Barium, Total	**96**		mg/Kg	5.6	1	10-25-10 20:08	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.93**		mg/Kg	0.56	1	10-25-10 20:08	EPA 6010B[1]
7440-47-3	Chromium, Total	**12**		mg/Kg	1.1	1	10-25-10 20:08	EPA 6010B[1]
7439-92-1	Lead, Total	**210**		mg/Kg	5.6	1	10-25-10 20:08	EPA 6010B[1]
7439-97-6	Mercury, Total	**3.9**		mg/Kg	0.020	1	10-22-10 15:12	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.6	1	10-25-10 20:08	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.1	1	10-25-10 20:08	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**WS TP-10 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**250 mL Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Cool**
Laboratory ID:	**137186-26**	Percent Solids:	**79**
Sampled:	**10-18-10 16:30**		
Received:	**10-19-10 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01913-S	EPA 3050B	10-25-10 00:00	0.52 g	ICP-1 PE 3000	LS
EPA 7471A[2]	MP-2600-S	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.6	1	10-25-10 18:32	EPA 6010B[1]
7440-39-3	Barium, Total	**290**		mg/Kg	6.1	1	10-25-10 18:32	EPA 6010B[1]
7440-43-9	Cadmium, Total	**2.2**		mg/Kg	0.61	1	10-25-10 18:32	EPA 6010B[1]
7440-47-3	Chromium, Total	**20**		mg/Kg	1.2	1	10-25-10 18:32	EPA 6010B[1]
7439-92-1	Lead, Total	**2,000**		mg/Kg	6.1	1	10-25-10 18:32	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.51**		mg/Kg	0.021	1	10-22-10 15:15	EPA 7471A[2]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.1	1	10-25-10 18:32	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	10-25-10 18:32	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

EPA Method 600/R-93-116
PLM Bulk Asbestos

Project: **New Bedford, Brook St.**
Client: **Weston & Sampson, Inc.**

Matrix: **Solid**
Container(s): **Plastic Bag**
Received: **10-19-10 18:00**

Lab ID: **137186-27** Sampled: **10-18-10 14:10** Analyzed: **10-25-10 14:25** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **ACM-1** HA ID: **n/a**		Fibrous Glass	40 %		**No**	**ND**
Location: **n/a**		Non-Fibrous	60 %			
Description: **Off-White, Heterogeneous**						
Comments:						

Lab ID: **137186-28** Sampled: **10-18-10 14:15** Analyzed: **10-25-10 14:28** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **ACM-2** HA ID: **n/a**		Cellulose	10 %		**No**	**ND**
Location: **n/a**		Non-Fibrous	90 %			
Description: **Off-White/Black, Heterogeneous**						
Comments:						

Lab ID: **137186-29** Sampled: **10-18-10 14:40** Analyzed: **10-25-10 14:28** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **ACM-3** HA ID: **n/a**		Cellulose	75 %		**No**	**ND**
Location: **n/a**		Non-Fibrous	25 %			
Description: **Off-White, Heterogeneous**						
Comments:						

Lab ID: **137186-30** Sampled: **10-18-10 15:05** Analyzed: **10-25-10 14:29** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **ACM-4** HA ID: **n/a**		Non-Fibrous	100 %		**No**	**ND**
Location: **n/a**						
Description: **Grey, Homogenous**						
Comments:						

Lab ID: **137186-31** Sampled: **10-18-10 16:20** Analyzed: **10-25-10 14:29** Analyst: **MJP**

Sample Identification		Non-Asbestos Material		Asbestos Type	Asbestos Present	Asbestos Content
Field ID: **ACM-5** HA ID: **n/a**		Fibrous Glass	40 %		**No**	**ND**
Location: **n/a**		Non-Fibrous	60 %			
Description: **Off-White, Heterogeneous**						
Comments:						

Method Reference: Method for the Determination of Asbestos in Bulk Building Materials, US EPA, EPA-600/R-93-116 (1993).

Report Notations: Due to inherent limitations of Polarized Light Microscopy (PLM), fibers and/or bundles below the resolution of the light microscope (approximately < 0.25 microns in width) will not be detected. ND, <1% and 1% samples should be confirmed by Transmission Electron Microscopy (TEM). This test report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. NVLAP Lab Code 200751-0

ND Not Detected
HA Homogenous Area
NA Not Analyzed
PR Present
PS Not Analyzed/Positive Stop

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-1 (8-10)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-32**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 10:15**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**4.7 g**
Analyzed:	**10-21-10 16:01**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**44**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		mg/Kg	8.4
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	**21**		mg/Kg	8.4
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	8.4
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		mg/Kg	8.4
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	24		mg/Kg	8.4

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.42
71-43-2	Benzene ¤	BRL		mg/Kg	0.84
108-88-3	Toluene ¤	BRL		mg/Kg	0.84
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.84
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.84
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.84
91-20-3	Naphthalene	BRL		mg/Kg	2.1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	21	17	**80** %	70 - 130 %
2,5-Dibromotoluene (FID)	21	17	**80** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-2 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-33**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 10:45**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**10 g**
Analyzed:	**10-21-10 16:42**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**85**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		mg/Kg	1.9
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	**5.2**		mg/Kg	1.9
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	1.9
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		mg/Kg	1.9
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	6.6		mg/Kg	1.9

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.1
71-43-2	Benzene ¤	BRL		mg/Kg	0.19
108-88-3	Toluene ¤	BRL		mg/Kg	0.19
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.19
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.19
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.19
91-20-3	Naphthalene	**2.2**		mg/Kg	0.48

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	4.8	4.5	**93** %	70 - 130 %
2,5-Dibromotoluene (FID)	4.8	4.6	**95** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-3 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-34**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 12:00**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**17 g**
Analyzed:	**10-21-10 17:23**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**86**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		mg/Kg	1.2
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	**4.5**		mg/Kg	1.2
n-C9 to n-C10 Aromatic Hydrocarbons †	**5.0**		mg/Kg	1.2
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		mg/Kg	1.2
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	9.9		mg/Kg	1.2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.06
71-43-2	Benzene ¤	BRL		mg/Kg	0.12
108-88-3	Toluene ¤	**0.15**		mg/Kg	0.12
100-41-4	Ethylbenzene ‡	**0.24**		mg/Kg	0.12
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	**0.21**		mg/Kg	0.12
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.12
91-20-3	Naphthalene	**8.0**		mg/Kg	0.31

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.1	2.8	**90** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.1	2.9	**93** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-4 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-35**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 12:30**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**14 g**
Analyzed:	**10-21-10 18:04**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**88**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**2.0**		mg/Kg	1.3
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.3
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	1.3
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2.1		mg/Kg	1.3
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	2.1		mg/Kg	1.3

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.07
71-43-2	Benzene ¤	BRL		mg/Kg	0.13
108-88-3	Toluene ¤	BRL		mg/Kg	0.13
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.13
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.13
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.13
91-20-3	Naphthalene	**0.54**		mg/Kg	0.33

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.3	3.2	**95** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.3	3.2	**97** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-5 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-36**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 13:20**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Analyzed:	**10-21-10 18:45**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**87**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**2.6**		mg/Kg	1.3
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	**1.8**		mg/Kg	1.3
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	1.3
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2.9		mg/Kg	1.3
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	3.0		mg/Kg	1.3

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.06
71-43-2	Benzene ¤	**0.19**		mg/Kg	0.13
108-88-3	Toluene ¤	BRL		mg/Kg	0.13
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.13
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.13
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.13
91-20-3	Naphthalene	BRL		mg/Kg	0.33

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.3	3.0	**93** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.3	3.1	**94** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-6 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-37**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 14:10**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**14 g**
Analyzed:	**10-22-10 15:53**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**83**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**2.2**		mg/Kg	1.5
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.5
n-C9 to n-C10 Aromatic Hydrocarbons †	**2.2**		mg/Kg	1.5
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2.3		mg/Kg	1.5
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	3.8		mg/Kg	1.5

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.08
71-43-2	Benzene ¤	BRL		mg/Kg	0.15
108-88-3	Toluene ¤	BRL		mg/Kg	0.15
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.15
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.15
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.15
91-20-3	Naphthalene	**4.3**		mg/Kg	0.39

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.9	3.5	**92** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.9	3.6	**94** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-7 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-38**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 14:20**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**13 g**
Analyzed:	**10-22-10 16:34**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**82**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**2.5**		mg/Kg	1.6
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.6
n-C9 to n-C10 Aromatic Hydrocarbons †	**2.4**		mg/Kg	1.6
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2.6		mg/Kg	1.6
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	3.6		mg/Kg	1.6

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.08
71-43-2	Benzene ¤	BRL		mg/Kg	0.16
108-88-3	Toluene ¤	BRL		mg/Kg	0.16
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.16
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.16
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.16
91-20-3	Naphthalene	**3.7**		mg/Kg	0.41

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	4.1	3.3	**81** %	70 - 130 %
2,5-Dibromotoluene (FID)	4.1	3.4	**82** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-8 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-39**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 15:05**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**12 g**
Analyzed:	**10-22-10 17:15**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**84**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		mg/Kg	1.7
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.7
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	1.7
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		mg/Kg	1.7
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	2.2		mg/Kg	1.7

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.08
71-43-2	Benzene ¤	BRL		mg/Kg	0.17
108-88-3	Toluene ¤	BRL		mg/Kg	0.17
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.17
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.17
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.17
91-20-3	Naphthalene	**1.6**		mg/Kg	0.42

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	4.2	3.6	**86** %	70 - 130 %
2,5-Dibromotoluene (FID)	4.2	3.6	**85** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-9 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-40**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 15:35**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**15 g**
Analyzed:	**10-22-10 17:55**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**88**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**2.0**		mg/Kg	1.3
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.3
n-C9 to n-C10 Aromatic Hydrocarbons †	**1.9**		mg/Kg	1.3
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2.1		mg/Kg	1.3
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	3.4		mg/Kg	1.3

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.06
71-43-2	Benzene ¤	BRL		mg/Kg	0.13
108-88-3	Toluene ¤	BRL		mg/Kg	0.13
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.13
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	**0.14**		mg/Kg	0.13
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.13
91-20-3	Naphthalene	**2.1**		mg/Kg	0.32

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.2	2.7	**86** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.2	2.8	**87** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-9A (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-41**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 16:00**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**14 g**
Analyzed:	**10-22-10 18:36**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**87**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**2.0**		mg/Kg	1.4
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.4
n-C9 to n-C10 Aromatic Hydrocarbons †	**1.5**		mg/Kg	1.4
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2.1		mg/Kg	1.4
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	2.7		mg/Kg	1.4

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.07
71-43-2	Benzene ¤	BRL		mg/Kg	0.14
108-88-3	Toluene ¤	BRL		mg/Kg	0.14
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.14
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.14
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.14
91-20-3	Naphthalene	**1.4**		mg/Kg	0.35

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.5	3.0	**87** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.5	3.0	**87** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**WS TP-10 (0-3)**	Matrix:	**Soil**
Project:	**New Bedford, Brook St.**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**Methanol/ Cool**
Laboratory ID:	**137186-42**	QC Batch ID:	**VP-1711-E**
Sampled:	**10-18-10 16:30**	Instrument ID:	**GC-1 HP 5890**
Received:	**10-19-10 18:00**	Sample Weight:	**16 g**
Analyzed:	**10-22-10 19:57**	Final Volume:	**15 mL**
Analyst:	**TRA**	% Solids:	**79**
		Dilution Factor:	**1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**1.6**		mg/Kg	1.5
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.5
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	1.5
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	1.8		mg/Kg	1.5
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	2.6		mg/Kg	1.5

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.07
71-43-2	Benzene ¤	BRL		mg/Kg	0.15
108-88-3	Toluene ¤	BRL		mg/Kg	0.15
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.15
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	**0.24**		mg/Kg	0.15
95-47-6	*ortho*- Xylene ‡	**0.20**		mg/Kg	0.15
91-20-3	Naphthalene	**0.62**		mg/Kg	0.36

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	3.6	3.3	**89** %	70 - 130 %
2,5-Dibromotoluene (FID)	3.6	3.3	**91** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Results are reported on a dry weight basis.

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**New Bedford, Brook St.**	Lab ID:	**137186**
Client:	**Weston & Sampson, Inc.**	Received:	**10-19-10 18:00**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. A matrix spike and matrix spike duplicate was only analyzed for metals, per Sean Healey, 10-20-10.
2. Project 137186 was processed for Rush Turnaround due 10-25-10, per Sean Healey, 10-20-10.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 6010B Note: Samples 137186-14 through -26. Samples were analyzed for selected target analytes, as requested by client.
2. MA DEP EPH Non-conformance: Samples 137186-14 through -17, -19 through -22, -25, -26, -16RA1 and -21RA1. Samples did not have measureable surrogate recoveries due to required sample dilution.
3. MA DEP EPH Non-conformance: Samples 137186-16 and -21. Reported results for selected analytes exceeded the high standard of the associated calibration curve. Results are estimated. Samples were reanalyzed and reported with all analytes within calibration.
4. MA DEP EPH Note: Samples 137186-14 through -17, -19 through -22, -25, -26, -16RA1 and -21RA1. Samples were diluted prior to analysis. Dilution was required to keep all target analytes within calibration. Elevated reporting limits are above the recommended CAM reporting limits for the target analytes.
5. MA DEP VPH Note: Samples 137186-32 and -33 were received with greater than 25% difference between sample weight and methanol. The samples were analyzed as received.
6. EPA 8260B Non-conformance: Laboratory control sample (LCS) analytes 1,4-Dioxane and 1,1,2,2-Tetrachloroethane were below recommended recovery limits for QC batch VM1-2941-S.
7. EPA 8260B Non-conformance: Laboratory control sample (LCS) analyte 1,4-Dioxane had an RPD recovery outside recommended recovery limits for QC batch VM1-2941-S.
8. EPA 8260B Note: Samples 137186-1 through -4, -6 and -8 through -13. Acetone did not meet the required minimum average response factor in the ICAL. Response factor was below the recommended limit in the CCV/LCS.
9. EPA 8260B Note: Samples 137186-1 through -4, -6 and -8 through -13. Relative percent deviations for several analytes were above the recommended limit in the CCV.

GROUNDWATER ANALYTICAL

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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

All samples are to be analyzed for EPH w/ PAH targets, VPH via MADEP methodology, VOCs via 8260, PCBs 8082, RCRA-8 6010

Project Name: New Bedford, Brook St	Firm: Weston & Sampson
Project Number:	Address: 5 Centennial Drive
Sampler Name: K. Novello	City / State / Zip:: Peabody, MA 01960
Project Manager: S Healey	Telephone: 978 532 1900

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☑ 10 Business Days
- ☐ 5 Business Days
- ☐ RUSH (RAN- _____) (Rush requires Rush Authorization Number)
- ☐ Please Email to: _____
- ☐ Please FAX to: _____

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ TIC Search

SDWA: ☐ 524.2

NPDES: ☐ 624

RCRA/21E: ☐ 8260B TCL-MTBE

Volatiles: ☐ 8260B Aromatics; ☐ 8260B Halocarbons; ☐ 8260B Vermont

Semivolatiles: ☐ Acid Only; ☐ B/N Only; ☐ TIC Search; ☐ 524.2; ☐ 625; ☐ 625 PAHs only; ☐ 8270C

Pest/Herb/PCBs Extractable: ☐ 505; ☐ 508; ☐ 608 Pesticides; ☐ 608 PCBs; ☐ 8081A Pesticides; ☐ 8082/8082B; ☐ 531.1; ☐ 515.3; ☐ 615; ☐ 8151A Herbicides

Pest/Herb/PCBs Vol.: ☐ 504.1 EDB/DBCP; ☐ 8011 EDB/DBCP

Metals: Specify For Water Samples ☐ Total ☐ Dissolved; ☐ Lead and Copper; ☐ 13 Priority Pollutant; ☐ 8270C-PAHs only; ☐ 8270C; ☐ 5 RCRA; ☐ 14 MA DEP Metals; ☐ 23 TAL; ☐ Specify:

Petroleum Hydrocarbon Ext. TPH: ☐ Diesel Range Organics (DRO); ☐ ME DRO; ☐ CT ETPH; ☑ MA DEP EPH w/all targets; ☐ EPH Carbon Ranges only; ☐ EPH w/4 PAHs; ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00 Mod.)

Petroleum Hydrocarbon Vol. TPH: ☐ TPH by GC/FID (8015B Mod) Quantitative Only; ☐ Gasoline Range Organics (GRO); ☐ ME GRO; ☑ MA DEP VPH w/all targets; ☐ VPH Carbon ranges only

Haz. Waste: ☐ Herbicides; ☐ Pesticides; ☐ Paint Filter; ☐ Conductivity; ☐ Ignitability; ☐ Reactivity; ☐ MA Basic Disposal 8260B/TCL, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity; ☐ MA Extended Disposal 8260B, 8270C, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity

General Chemistry: ☐ Nitrate; ☐ Nitrite; ☐ Chlorine; ☐ Fluoride; ☐ Sulfate; ☐ Dissolved Phosphorus; ☐ Ammonia; ☐ TKN; ☐ Total Phosphorus; ☐ Total N (as N02/N03/TKN); ☐ Oil & Grease; ☐ COD; ☐ TOC; ☐ BOD; ☐ CBOD; ☐ TDS; ☐ TSS; ☐ TS; ☐ Alkalinity

Other: ☐ Total Cyanide; ☐ Physiologically Available Cyanide; ☐ Available Cyanide; ☐ pH; ☐ Dissolved Oxygen; ☐ Turbidity; ☐ Total Coliform; ☐ Fecal Coliform; ☐ HPC; ☐ MA DEP Asbestos in Soil; ☐ Asbestos (PLM)

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s): NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: HCl	HNO_3	H_2SO_4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
10	10:45	TP-1 (8-10)				✓				✓		✓																			0628 - 1
	10:45	TP-2 (0-3)				✓				✓		✓																			2
	12:00	TP-3 0-3				✓				✓		✓																			3
	12:30	TP-4 0-3				✓				✓		✓																			4
	12:40	TP-4 Native 10'				✓				✓		✓																			5
		~~WS TP-5 (0-3)~~																													
	13:30	WS TP-5 (0-3)				✓				✓		✓																			6
	13:45	WS TP5 Native 9'				✓				✓		✓																			7
	14:10	WS TP-6 (0-3)				✓				✓		✓																			8
	14:30	WS TP-7 (0-3)				✓				✓		✓																			9
	15:05	WS TP-8 (0-3)				✓				✓		✓																			10

REMARKS / SPECIAL INSTRUCTIONS

- ☑ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample Included. (Volatile analyses require duplicate collection and Trip Blanks).
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO CT RCP Data Certification required.

Signature: _____

WS TP-5 Native 9'
WS TP-4 Native 10'

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☑ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☑ Sample Duplicate
- ☑ Matrix Spike
- ☑ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler: K S Novello	Date 10/19/10 Time 12:0	Received by: Alan Maddigan 10/19/10 4:05	Receipt Temperature: ☒ Ice ☐ Refrigerated 2-6°C Recommended 2.0°C
Relinquished by: Alan Maddigan	Date 10/19/10 Time 16:00	Received by: [illegible]	Container Count:
Relinquished by:	Date Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☒ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
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www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

* All Samples to be analyzed for VPH, EPH, VOCs, PCBs RCRA-8

Project Name: New Bedford Brown Field Brook Street

Project Number:

Sampler Name: K. Novello

Project Manager: Sean Healey

Firm: Weston & Sampson

Address: 5 Centennial Drive

City / State / Zip:: Peabody, MA 01960

Telephone: 978 532 1900

TURNAROUND

- ☑ 10 Business Days
- ☐ 5 Business Days
- ☐ RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- ☐ Please Email to: healyse@weston.com
- ☐ Please FAX to: _____

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ TIC Search

SDWA: ☐ 524.2 | ☐ 524.2 TIC Search | ☐ 525.2 | ☐ 505 ☐ 508 | ☐ 531.1 | ☐ 515.3 | ☐ 504.1 EDB/DBCP

NPDES: ☐ 624 | ☐ 624+MTBE | ☐ 625 | ☐ 625 PAHs only | ☐ 608 Pesticides | ☐ 608 PCBs | ☐ 615 | ☐ 13 Priority Pollutant

RCRA/21E: ☐ 8260B TCL+MTBE | ☐ 8260B | ☐ 8260B Aromatics | ☐ 8260B Halocarbons | ☐ 8021B Vermont | ☐ 8270C | ☐ 8270C PAHs only | ☐ 8081A Pesticides | ☐ 8082 PCBs | ☐ 8151A Herbicides | ☐ 8011 EDB/DBCP | ☐ 6 RCRA ☐ 5 RCRA ☐ 14 MA DEP Metals ☐ 23 TAL

Volatiles: ☐ TIC Search

Semivolatiles: ☐ Acid Only ☐ B/N Only ☐ TIC Search

Metals: Specify For Water Samples ☐ Total ☐ Dissolved — ☐ Lead and Copper

Petroleum Hydrocarbon — Ext. TPH: ☐ Diesel Range Organics (DRO) ☐ MCP/RO ☐ CT ETPH ☐ MA DEP EPH w/all targets ☐ EPH Carbon Ranges only ☐ EPH w/4 PAHs ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00-Mod.) ☐ TPH by GC/FID (8015B Mod) Quantitative Only ☐ Gasoline Range Organics (GRO) ☐ MEGRO — Vol. TPH: ☐ MA DEP VPH w/all targets ☐ VPH Carbon ranges only

Haz. Waste: ☐ TCLP ☐ SPLP ☐ 6 Metals ☐ Pb only ☐ VOA ☐ Semi VOA ☐ Pesticides ☐ Herbicides ☐ Corrosivity (as pH) ☐ Reactivity ☐ Ignitability ☐ Conductivity ☐ Paint Filter ☐ MA Basic Disposal: 8260B TCL, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity ☐ MA Extended Disposal 8260B, 8270C, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity

General Chemistry: ☐ Nitrate ☐ Nitrite ☐ Chlorine ☐ Fluoride ☐ Sulfate ☐ Dissolved Phosphorus ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as NO2/NO3/TKN) ☐ Oil & Grease ☐ COD ☐ TOC ☐ BOD ☐ CBOD ☐ TDS ☐ TSS ☐ Alkalinity

Other: ☐ Total Cyanide ☐ Physiologically Available Cyanide ☐ Available Cyanide ☐ pH ☐ Dissolved Oxygen ☐ Turbidity ☐ Total Coliform ☐ Fecal Coliform ☐ HPC ☐ MA DEP Asbestos in Soil ☐ Asbestos (PLM)

| Date | Time | Sample Identification | Matrix: Groundwater | Drinking Water | Wastewater | Soil | Other Solid | Oil/Organic Liquid | Type: Composite | Grab | Container(s): Number | 40mL VOA Vial | 60mL/2 oz Glass | 120mL/4 oz Amber Glass | 250mL/8 oz Glass | 500mL/16 oz Glass | 1L/32 oz Amber Glass | 250mL/8 oz Plastic | 500mL/16 oz Plastic | 1L/32 oz Plastic | 120mL Sterile | Preservation: Plastic Bag | HCl | HNO_3 | H_2SO_4 | NaOH | Methanol | Sodium Bisulfate | ICE | Filtered: YES | NO | Laboratory Number (Lab Use Only) | RCRA/21E: 8260B TCL+MTBE | 8260B | 8260B Aromatics | 8260B Halocarbons | 8021B Vermont | 8270C | 8270C PAHs only | 8081A Pesticides | 8082 PCBs | 8151A Herbicides | 8011 EDB/DBCP | 6 RCRA / 5 RCRA / 14 MA DEP Metals / 23 TAL | Metals: ACM BY PLM | Diesel Range Organics (DRO) | MCP/RO | CT ETPH | MA DEP EPH w/all targets | EPH Carbon Ranges only | EPH w/4 PAHs | Hydrocarbon Fingerprint | TPH by GC/FID | Gasoline Range Organics (GRO) | MEGRO | MA DEP VPH w/all targets | VPH Carbon ranges only | TCLP | SPLP | 6 Metals | Pb only | VOA | Semi VOA | Pesticides | Herbicides | Corrosivity | Ignitability | Conductivity | Paint Filter | MA Basic Disposal | MA Extended Disposal | Nitrate | Nitrite | Chlorine | Fluoride | Sulfate | Dissolved Phosphorus | Ammonia | TKN | Total Phosphorus | Total N | Oil & Grease | COD | TOC | BOD | CBOD | TDS | TSS | Alkalinity | Total Cyanide | Physiologically Available Cyanide | Available Cyanide | pH | Dissolved Oxygen | Turbidity | Total Coliform | Fecal Coliform | HPC | MA DEP Asbestos in Soil | Asbestos (PLM) | RCRA-8 |
|---|---|---

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**MA DEP EPH Method**	Instrument ID:	**GC-9 Agilent 6890**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-3160-M**	Extracted:	**10-21-10 18:00**	Extracted:	**10-21-10 18:00**
Matrix:	**Soil**	Analyzed (AL):	**10-22-10 01:28**	Analyzed (AL):	**10-22-10 02:56**
Units:	**mg/Kg**	Analyzed (AR):	**10-22-10 02:12**	Analyzed (AR):	**10-22-10 03:40**
		Analyst:	**KM**	Analyst:	**KM**

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
111-84-2	*n*-Nonane (C_9)	3.3	1.8	**54** %	3.3	1.9	**58** %	**7** %	30 - 140 %	25%
124-18-5	*n*-Decane (C_{10})	3.3	2.1	**63** %	3.3	2.2	**67** %	**6** %	40 - 140 %	25%
112-40-3	*n*-Dodecane (C_{12})	3.3	2.2	**67** %	3.3	2.3	**71** %	**6** %	40 - 140 %	25%
629-59-4	*n*-Tetradecane (C_{14})	3.3	2.3	**70** %	3.3	2.4	**74** %	**5** %	40 - 140 %	25%
544-76-3	*n*-Hexadecane (C_{16})	3.3	2.5	**76** %	3.3	2.6	**79** %	**3** %	40 - 140 %	25%
593-45-3	*n*-Octadecane (C_{18})	3.3	3.0	**90** %	3.3	3.0	**91** %	**1** %	40 - 140 %	25%
n/a	*n*-C9 to *n*-C18 Group	20	14	**70** %	20	15	**73** %	**5** %	40 - 140 %	25%
629-92-5	*n*-Nonadecane (C_{19})	3.3	3.0	**90** %	3.3	3.0	**91** %	**1** %	40 - 140 %	25%
112-95-8	*n*-Eicosane (C_{20})	3.3	3.0	**90** %	3.3	3.0	**90** %	**0** %	40 - 140 %	25%
629-97-0	*n*-Docosane (C_{22})	3.3	2.8	**84** %	3.3	2.8	**85** %	**0** %	40 - 140 %	25%
646-31-1	*n*-Tetracosane (C_{24})	3.3	2.8	**86** %	3.3	2.9	**87** %	**0** %	40 - 140 %	25%
630-01-3	*n*-Hexacosane (C_{26})	3.3	2.7	**83** %	3.3	2.7	**83** %	**1** %	40 - 140 %	25%
630-02-4	*n*-Octacosane (C_{28})	3.3	2.6	**80** %	3.3	2.7	**81** %	**1** %	40 - 140 %	25%
638-68-6	*n*-Triacontane (C_{30})	3.3	2.6	**78** %	3.3	2.6	**79** %	**1** %	40 - 140 %	25%
630-06-8	*n*-Hexatriacontane (C_{36})	3.3	2.3	**70** %	3.3	2.4	**72** %	**3** %	40 - 140 %	25%
n/a	*n*-C19 to *n*-C36 Group	26	22	**83** %	26	22	**83** %	**1** %	40 - 140 %	25%
91-20-3	Naphthalene	3.3	2.2	**67** %	3.3	2.4	**72** %	**8** %	40 - 140 %	25%
91-57-6	2-Methylnaphthalene	3.3	2.4	**72** %	3.3	2.6	**78** %	**7** %	40 - 140 %	25%
208-96-8	Acenaphthylene	3.3	2.6	**78** %	3.3	2.7	**83** %	**6** %	40 - 140 %	25%
83-32-9	Acenaphthene	3.3	2.5	**77** %	3.3	2.7	**81** %	**6** %	40 - 140 %	25%
86-73-7	Fluorene	3.3	2.6	**78** %	3.3	2.7	**83** %	**5** %	40 - 140 %	25%
85-01-8	Phenanthrene	3.3	2.9	**89** %	3.3	3.1	**92** %	**4** %	40 - 140 %	25%
120-12-7	Anthracene	3.3	3.1	**93** %	3.3	3.2	**98** %	**5** %	40 - 140 %	25%
206-44-0	Fluoranthene	3.3	3.2	**96** %	3.3	3.2	**97** %	**1** %	40 - 140 %	25%
129-00-0	Pyrene	3.3	3.2	**96** %	3.3	3.2	**98** %	**2** %	40 - 140 %	25%
56-55-3	Benzo[a]anthracene	3.3	2.8	**86** %	3.3	2.9	**88** %	**2** %	40 - 140 %	25%
218-01-9	Chrysene	3.3	3.2	**97** %	3.3	3.2	**98** %	**2** %	40 - 140 %	25%
205-99-2	Benzo[b]fluoranthene	3.3	2.8	**84** %	3.3	2.8	**86** %	**3** %	40 - 140 %	25%
207-08-9	Benzo[k]fluoranthene	3.3	3.0	**91** %	3.3	3.0	**92** %	**2** %	40 - 140 %	25%
50-32-8	Benzo[a]pyrene	3.3	3.0	**90** %	3.3	3.0	**92** %	**2** %	40 - 140 %	25%
193-39-5	Indeno[1,2,3-c,d]pyrene	3.3	2.8	**86** %	3.3	2.9	**88** %	**2** %	40 - 140 %	25%
53-70-3	Dibenzo[a,h]anthracene	3.3	3.0	**91** %	3.3	3.1	**93** %	**2** %	40 - 140 %	25%
191-24-2	Benzo[g,h,i]perylene	3.3	2.8	**85** %	3.3	2.9	**87** %	**3** %	40 - 140 %	25%
n/a	PAH Group	56	48	**86** %	56	50	**89** %	**3** %	40 - 140 %	25%

QC Surrogate Compound		Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Fractionation:	2-Fluorobiphenyl	2.7	2.3	**85** %	2.7	2.3	**85** %		40 - 140 %
	2-Bromonaphthalene	2.7	2.3	**85** %	2.7	2.4	**89** %		40 - 140 %
Extraction:	Chloro-octadecane	2.7	2.3	**85** %	2.7	2.3	**85** %		40 - 140 %
	ortho-Terphenyl	2.7	2.5	**93** %	2.7	2.6	**96** %		40 - 140 %

Fractionation Breakthrough Evaluation						QC Limits
91-20-3	Naphthalene	LCS	**0** %	LCSD	**0** %	5%
91-57-6	2-Methylnaphthalene	LCS	**0** %	LCSD	**0** %	5%

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Method modified by use of microwave accelerated solvent extraction technique.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

The LCS and LCSD are prepared from separate source standards than those used for calibration.

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Quality Control Report
Method Blank

Category:	**MA DEP EPH**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-3160-M**	Extracted:	**10-21-10 18:00**
Matrix:	**Soil**	Analyzed (AL):	**10-22-10 04:23**
		Analyzed (AR):	**10-22-10 05:07**
		Analyst:	**KM**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	30
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		mg/Kg	30
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		mg/Kg	30
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		mg/Kg	30

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.50
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.50
85-01-8	Phenanthrene	BRL		mg/Kg	0.50
83-32-9	Acenaphthene	BRL		mg/Kg	0.50
208-96-8	Acenaphthylene	BRL		mg/Kg	0.50
86-73-7	Fluorene	BRL		mg/Kg	0.50
120-12-7	Anthracene	BRL		mg/Kg	0.50
206-44-0	Fluoranthene	BRL		mg/Kg	0.50
129-00-0	Pyrene	BRL		mg/Kg	0.50
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.50
218-01-9	Chrysene	BRL		mg/Kg	0.50
205-99-2	Benzo[b]fluoranthene	BRL		mg/Kg	0.50
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.50
50-32-8	Benzo[a]pyrene	BRL		mg/Kg	0.50
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.50
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.50
191-24-2	Benzo[g,h,i]perylene	BRL		mg/Kg	0.50

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	2.7	2.2	**81** %	40 - 140 %
	2-Bromonaphthalene	2.7	2.2	**81** %	40 - 140 %
Extraction:	Chloro-octadecane	2.7	2.3	**87** %	40 - 140 %
	ortho-Terphenyl	2.7	2.5	**93** %	40 - 140 %

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by microwave accelerated solvent extraction technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

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Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**MA DEP VPH**	Instrument ID:	**GC-1 HP 5890**	Instrument ID:	**GC-1 HP 5890**
QC Batch ID:	**VP-1711-E**	Analyzed:	**10-20-10 13:16**	Analyzed:	**10-20-10 13:57**
Matrix:	**Soil**	Analyst:	**TRA**	Analyst:	**TRA**
Units:	**mg/Kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
109-66-0	*n*- Pentane	2.5	2.4	**97** %	2.5	2.2	**90** %	**8** %	70 - 130 %	25%
107-83-5	2-Methylpentane	2.5	2.4	**97** %	2.5	2.3	**90** %	**7** %	70 - 130 %	25%
540-84-1	2,2,4-Trimethylpentane	2.5	2.6	**104** %	2.5	2.4	**97** %	**8** %	70 - 130 %	25%
n/a	Aliphatic Group 1	7.5	7.5	**100** %	7.5	6.9	**92** %	**8** %	70 - 130 %	25%
111-84-2	*n*- Nonane	2.5	2.3	**93** %	2.5	2.3	**91** %	**3** %	70 - 130 %	25%
124-18-5	*n*- Decane	2.5	2.4	**96** %	2.5	2.4	**94** %	**2** %	70 - 130 %	25%
1678-93-9	*n*- Butylcyclohexane	2.5	2.4	**95** %	2.5	2.4	**94** %	**1** %	70 - 130 %	25%
n/a	Aliphatic Group 2	7.5	7.1	**95** %	7.5	7.0	**93** %	**2** %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether	2.5	2.5	**102** %	2.5	2.4	**98** %	**4** %	70 - 130 %	25%
71-43-2	Benzene	2.5	2.5	**99** %	2.5	2.4	**95** %	**4** %	70 - 130 %	25%
108-88-3	Toluene	2.5	2.5	**102** %	2.5	2.4	**97** %	**5** %	70 - 130 %	25%
100-41-4	Ethylbenzene	2.5	2.6	**102** %	2.5	2.4	**98** %	**4** %	70 - 130 %	25%
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene	5.0	5.1	**102** %	5.0	4.9	**98** %	**4** %	70 - 130 %	25%
95-47-6	*ortho*- Xylene	2.5	2.4	**96** %	2.5	2.3	**93** %	**4** %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	2.5	2.6	**103** %	2.5	2.5	**100** %	**3** %	70 - 130 %	25%
91-20-3	Naphthalene	2.5	2.5	**98** %	2.5	2.4	**97** %	**1** %	70 - 130 %	25%
n/a	Aromatic Group	23	23	**102** %	23	22	**98** %	**4** %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
2,5-Dibromotoluene (PID)	2.5	2.6	**103** %	2.5	2.5	**101** %		70 - 130 %
2,5-Dibromotoluene (FID)	2.5	2.6	**104** %	2.5	2.5	**101** %		70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP VPH**	Instrument ID:	**GC-1 HP 5890**
QC Batch ID:	**VP-1711-E**	Analyzed:	**10-20-10 14:38**
Matrix:	**Soil**	Analyst:	**TRA**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		mg/Kg	1.0
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		mg/Kg	1.0
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		mg/Kg	1.0
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		mg/Kg	1.0
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		mg/Kg	1.0

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		mg/Kg	0.05
71-43-2	Benzene ¤	BRL		mg/Kg	0.10
108-88-3	Toluene ¤	BRL		mg/Kg	0.10
100-41-4	Ethylbenzene ‡	BRL		mg/Kg	0.10
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		mg/Kg	0.10
95-47-6	*ortho*- Xylene ‡	BRL		mg/Kg	0.10
91-20-3	Naphthalene	BRL		mg/Kg	0.50

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	2.5	2.5	**100** %	70 - 130 %
2,5-Dibromotoluene (FID)	2.5	2.5	**100** %	70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3606-P**	Extracted:	**10-22-10 12:30**	Extracted:	**10-22-10 12:30**
Matrix:	**Soil**	Cleaned Up:	**10-22-10 20:30**	Cleaned Up:	**10-22-10 20:30**
Units:	**ug/Kg**	Analyzed:	**10-23-10 05:00**	Analyzed:	**10-23-10 05:24**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	330	290	290	**86%**	**86%**	330	310	320	**94%**	**95%**	**9 %**	**9 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	330	300	310	**90%**	**92%**	330	320	320	**97%**	**97%**	**8 %**	**5 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	13	11	9.8	**80%**	**73%**	13	12	11	**91%**	**84%**		30 - 150 %
Decachlorobiphenyl	13	12	13	**91%**	**95%**	13	13	13	**96%**	**100%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

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Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3606-P**	Extracted:	**10-22-10 12:30**
Matrix:	**Soil**	Cleaned Up:	**10-22-10 20:30**
		Analyzed:	**10-23-10 04:37**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	80
11104-28-2	Aroclor 1221	BRL		ug/Kg	80
11141-16-5	Aroclor 1232	BRL		ug/Kg	80
53469-21-9	Aroclor 1242	BRL		ug/Kg	80
12672-29-6	Aroclor 1248	BRL		ug/Kg	80
11097-69-1	Aroclor 1254	BRL		ug/Kg	80
11096-82-5	Aroclor 1260	BRL		ug/Kg	80
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	80
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	80

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	13	10	**77** %	30 - 150 %
	Decachlorobiphenyl	13	12	**92** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	13	9.4	**71** %	30 - 150 %
	Decachlorobiphenyl	13	12	**92** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-11 Agilent 6890**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3608-P**	Extracted:	**10-25-10 12:45**	Extracted:	**10-25-10 12:45**
Matrix:	**Soil**	Cleaned Up:	**10-27-10 17:00**	Cleaned Up:	**10-27-10 17:00**
Units:	**ug/Kg**	Analyzed:	**10-27-10 17:38**	Analyzed:	**10-27-10 18:01**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	330	250	270	**74%**	**82%**	330	240	280	**72%**	**83%**	**2 %**	**1 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	330	270	270	**81%**	**82%**	330	250	270	**75%**	**81%**	**7 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	13	8.2	9.1	**62%**	**69%**	13	7.5	8.9	**57%**	**67%**		30 - 150 %
Decachlorobiphenyl	13	10	11	**77%**	**81%**	13	9.2	10	**69%**	**77%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3608-P**	Extracted:	**10-25-10 12:45**
Matrix:	**Soil**	Cleaned Up:	**10-27-10 17:00**
		Analyzed:	**10-27-10 17:14**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	80
11104-28-2	Aroclor 1221	BRL		ug/Kg	80
11141-16-5	Aroclor 1232	BRL		ug/Kg	80
53469-21-9	Aroclor 1242	BRL		ug/Kg	80
12672-29-6	Aroclor 1248	BRL		ug/Kg	80
11097-69-1	Aroclor 1254	BRL		ug/Kg	80
11096-82-5	Aroclor 1260	BRL		ug/Kg	80
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	80
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	80

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	13	8.2	**62** %	30 - 150 %
	Decachlorobiphenyl	13	9.9	**74** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	13	8.8	**67** %	30 - 150 %
	Decachlorobiphenyl	13	10	**78** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

Category: **Metals**
Matrix: **Soil**
Units: **mg/Kg**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 6010B	MB-1912-SL	EPA 3050B	10-22-10 00:00	10-22-10 00:00	ICP-1 PE 3000	JK
LCS	EPA 7471A	MP-2600-SL	EPA 7471A	10-21-10 00:00	10-22-10 13:47	CVAA-1 PE FIMS	MFP
LCSD	EPA 6010B	MB-1912-SL	EPA 3050B	10-22-10 00:00	04-23-04 12:54	ICP-1 PE 3000	JK
LCSD	EPA 7471A	MP-2600-SL	EPA 7471A	10-21-10 00:00	10-22-10 13:50	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-38-2	Arsenic	110	110	**99%**	110	110	**98%**	**1 %**	83-117 %	30 %	EPA 6010B
7440-39-3	Barium	330	340	**104%**	330	330	**102%**	**1 %**	83-117 %	30 %	EPA 6010B
7440-43-9	Cadmium	110	120	**110%**	110	120	**107%**	**1 %**	80-120 %	30 %	EPA 6010B
7440-47-3	Chromium	93	99	**105%**	93	97	**104%**	**0 %**	81-120 %	30 %	EPA 6010B
7439-92-1	Lead	150	170	**113%**	150	160	**108%**	**2 %**	79-121 %	30 %	EPA 6010B
7439-97-6	Mercury	16	15	**92%**	16	15	**92%**	**0 %**	71-129 %	30 %	EPA 7471A
7782-49-2	Selenium	210	210	**100%**	210	200	**97%**	**2 %**	79-120 %	30 %	EPA 6010B
7440-22-4	Silver	52	49	**95%**	52	49	**94%**	**1 %**	66-134 %	30 %	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: **Metals**
Matrix: **Soil**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B	MB-1912-SB	EPA 3050B	10-22-10 00:00	0.5 g	ICP-1 PE 3000	JK
EPA 7471A	MP-2600-SB	EPA 7471A	10-21-10 00:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic	BRL		mg/Kg	3.0	1	10-22-10 00:00	EPA 6010B
7440-39-3	Barium	BRL		mg/Kg	5.0	1	10-22-10 00:00	EPA 6010B
7440-43-9	Cadmium	BRL		mg/Kg	0.50	1	10-22-10 00:00	EPA 6010B
7440-47-3	Chromium	BRL		mg/Kg	1.0	1	10-22-10 00:00	EPA 6010B
7439-92-1	Lead	BRL		mg/Kg	5.0	1	10-22-10 00:00	EPA 6010B
7439-97-6	Mercury	BRL		mg/Kg	0.017	1	10-22-10 13:47	EPA 7471A
7782-49-2	Selenium	BRL		mg/Kg	5.0	1	10-22-10 00:00	EPA 6010B
7440-22-4	Silver	BRL		mg/Kg	1.0	1	10-22-10 00:00	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

Category: **Metals**
Matrix: **Soil**
Units: **mg/Kg**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 6010B	MB-1913-SL	EPA 3050B	10-25-10 00:00	10-25-10 17:35	ICP-1 PE 3000	JK
LCSD	EPA 6010B	MB-1913-SL	EPA 3050B	10-25-10 00:00	10-25-10 17:41	ICP-1 PE 3000	JK

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-38-2	Arsenic	110	110	**97%**	110	100	**96%**	**1 %**	83-117 %	30 %	EPA 6010B
7440-39-3	Barium	330	330	**102%**	330	340	**105%**	**1 %**	83-117 %	30 %	EPA 6010B
7440-43-9	Cadmium	110	120	**105%**	110	120	**107%**	**1 %**	80-120 %	30 %	EPA 6010B
7440-47-3	Chromium	93	98	**105%**	93	100	**107%**	**1 %**	81-120 %	30 %	EPA 6010B
7439-92-1	Lead	150	170	**109%**	150	170	**109%**	**0 %**	79-121 %	30 %	EPA 6010B
7782-49-2	Selenium	210	200	**97%**	210	200	**98%**	**1 %**	79-120 %	30 %	EPA 6010B
7440-22-4	Silver	52	51	**98%**	52	51	**99%**	**1 %**	66-134 %	30 %	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: **Metals**
Matrix: **Soil**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B	MB-1913-SB	EPA 3050B	10-25-10 00:00	0.5 g	ICP-1 PE 3000	JK

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic	BRL		mg/Kg	3.0	1	10-25-10 17:31	EPA 6010B
7440-39-3	Barium	BRL		mg/Kg	5.0	1	10-25-10 17:31	EPA 6010B
7440-43-9	Cadmium	BRL		mg/Kg	0.50	1	10-25-10 17:31	EPA 6010B
7440-47-3	Chromium	BRL		mg/Kg	1.0	1	10-25-10 17:31	EPA 6010B
7439-92-1	Lead	BRL		mg/Kg	5.0	1	10-25-10 17:31	EPA 6010B
7782-49-2	Selenium	BRL		mg/Kg	5.0	1	10-25-10 17:31	EPA 6010B
7440-22-4	Silver	BRL		mg/Kg	1.0	1	10-25-10 17:31	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 14:58**	Analyzed:	**10-24-10 15:34**
Matrix:	**Soil**	Analyst:	**EMC**	Analyst:	**EMC**
Units:	**ug/kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	50	51	**103** %	50	46	**91** %	**12** %	70 - 130 %	20%
74-87-3	Chloromethane	50	48	**96** %	50	42	**85** %	**12** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	50	57	**113** %	50	52	**104** %	**8** %	70 - 130 %	20%
74-83-9	Bromomethane	50	53	**105** %	50	47	**94** %	**11** %	70 - 130 %	20%
75-00-3	Chloroethane	50	49	**97** %	50	47	**93** %	**4** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	50	51	**102** %	50	45	**89** %	**13** %	70 - 130 %	20%
60-29-7	Diethyl Ether	100	89	**89** %	100	82	**82** %	**9** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	50	53	**106** %	50	49	**98** %	**8** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	100	120	**121** %	100	110	**109** %	**11** %	70 - 130 %	20%
67-64-1	Acetone	100	84	**84** %	100	87	**87** %	**4** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	100	84	**84** %	100	81	**81** %	**3** %	70 - 130 %	20%
75-09-2	Methylene Chloride	50	59	**119** %	50	51	**102** %	**15** %	70 - 130 %	20%
107-13-1	Acrylonitrile	50	43	**86** %	50	39	**77** %	**11** %	70 - 130 %	20%
156-60-5	*trans*-1,2-Dichloroethene	50	47	**94** %	50	46	**92** %	**2** %	70 - 130 %	20%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	50	40	**81** %	50	44	**88** %	**8** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	50	48	**96** %	50	44	**89** %	**8** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	50	50	**100** %	50	46	**93** %	**8** %	70 - 130 %	20%
156-59-2	*cis*-1,2-Dichloroethene	50	53	**106** %	50	50	**100** %	**6** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	100	92	**92** %	100	91	**91** %	**0** %	70 - 130 %	20%
74-97-5	Bromochloromethane	50	50	**101** %	50	51	**102** %	**1** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	100	81	**81** %	100	85	**85** %	**5** %	70 - 130 %	20%
67-66-3	Chloroform	50	51	**102** %	50	48	**95** %	**6** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	50	47	**94** %	50	44	**88** %	**7** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	50	50	**99** %	50	46	**92** %	**7** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	50	52	**104** %	50	47	**95** %	**9** %	70 - 130 %	20%
71-43-2	Benzene	50	50	**99** %	50	49	**98** %	**1** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	50	42	**84** %	50	44	**89** %	**5** %	70 - 130 %	20%
79-01-6	Trichloroethene	50	50	**100** %	50	48	**97** %	**4** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	50	45	**90** %	50	43	**87** %	**3** %	70 - 130 %	20%
74-95-3	Dibromomethane	50	42	**84** %	50	44	**88** %	**4** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	50	48	**97** %	50	48	**96** %	**0** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	1,000	770	**77** %	1,000	800	**80** %	**5** %	70 - 130 %	20%
10061-01-5	*cis*-1,3-Dichloropropene	50	47	**94** %	50	47	**94** %	**1** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	100	89	**89** %	100	90	**90** %	**1** %	70 - 130 %	20%
108-88-3	Toluene	50	52	**103** %	50	49	**98** %	**5** %	70 - 130 %	20%
10061-02-6	*trans*-1,3-Dichloropropene	50	46	**92** %	50	43	**86** %	**7** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	50	46	**91** %	50	43	**86** %	**6** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	50	59	**118** %	50	50	**100** %	**16** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	50	47	**94** %	50	43	**86** %	**10** %	70 - 130 %	20%
591-78-6	2-Hexanone	100	84	**84** %	100	81	**81** %	**3** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	50	46	**91** %	50	44	**87** %	**4** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	50	47	**94** %	50	43	**87** %	**8** %	70 - 130 %	20%
108-90-7	Chlorobenzene	50	51	**102** %	50	47	**93** %	**9** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	50	53	**105** %	50	49	**98** %	**8** %	70 - 130 %	20%
100-41-4	Ethylbenzene	50	51	**101** %	50	46	**92** %	**10** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	100	110	**113** %	100	100	**101** %	**11** %	70 - 130 %	20%
95-47-6	*ortho*-Xylene	50	53	**106** %	50	48	**96** %	**10** %	70 - 130 %	20%
100-42-5	Styrene	50	52	**103** %	50	48	**96** %	**7** %	70 - 130 %	20%
75-25-2	Bromoform	50	49	**98** %	50	49	**99** %	**1** %	70 - 130 %	20%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 14:58**	Analyzed:	**10-24-10 15:34**
Matrix:	**Soil**	Analyst:	**EMC**	Analyst:	**EMC**
Units:	**ug/kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
98-82-8	Isopropylbenzene	50	44	**87** %	50	41	**83** %	**5** %	70 - 130 %	20%
108-86-1	Bromobenzene	50	48	**96** %	50	48	**97** %	**0** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	50	38	**76** %	50	40	**79** %	**4** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	50	38	**77** %	50	43	**86** %	**12** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	180	**88** %	200	190	**93** %	**5** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	50	46	**91** %	50	45	**89** %	**2** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	50	50	**100** %	50	48	**97** %	**3** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	50	47	**94** %	50	47	**93** %	**1** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	50	45	**89** %	50	46	**92** %	**2** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	50	48	**96** %	50	45	**91** %	**5** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	50	48	**97** %	50	46	**92** %	**5** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	50	48	**95** %	50	45	**91** %	**5** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	50	46	**92** %	50	46	**92** %	**0** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	50	47	**94** %	50	49	**98** %	**4** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	50	44	**87** %	50	45	**89** %	**2** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	50	45	**89** %	50	47	**93** %	**4** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	50	49	**98** %	50	41	**82** %	**17** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	50	35	**70** %	50	36	**71** %	**1** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	50	50	**99** %	50	45	**91** %	**9** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	50	40	**80** %	50	37	**74** %	**8** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	50	39	**78** %	50	35	**71** %	**10** %	70 - 130 %	20%
91-20-3	Naphthalene	50	37	**75** %	50	37	**73** %	**2** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	50	44	**88** %	50	41	**81** %	**9** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	1,000	710	**71** %	1,000	710	**71** %	**1** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	50	44	**87** %	50	45	**91** %	**4** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	50	44	**89** %	50	44	**87** %	**1** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	50	44	**88** %	50	43	**87** %	**1** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	50	48	**96** %	50	42	**84** %		70 - 130 %
1,2-Dichloroethane-d_4	50	46	**92** %	50	43	**87** %		70 - 130 %
Toluene-d_8	50	55	**110** %	50	49	**98** %		70 - 130 %
4-Bromofluorobenzene	50	51	**101** %	50	44	**88** %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5035A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 16:10**
Matrix:	**Soil**	Analyst:	**EMC**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5
95-47-6	*ortho*- Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2940-S**	Analyzed:	**10-24-10 16:10**
Matrix:	**Soil**	Analyst:	**EMC**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	43	**86** %	70 - 130 %
1,2-Dichloroethane-d_4	50	36	**73** %	70 - 130 %
Toluene-d_8	50	47	**93** %	70 - 130 %
4-Bromofluorobenzene	50	53	**106** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5035A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2941-S**	Analyzed:	**10-25-10 06:07**	Analyzed:	**10-25-10 06:44**
Matrix:	**Soil**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	50	50	**101** %	50	48	**97** %	**4** %	70 - 130 %	20%
74-87-3	Chloromethane	50	43	**87** %	50	40	**81** %	**7** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	50	50	**99** %	50	48	**95** %	**4** %	70 - 130 %	20%
74-83-9	Bromomethane	50	54	**107** %	50	48	**95** %	**12** %	70 - 130 %	20%
75-00-3	Chloroethane	50	43	**86** %	50	42	**84** %	**2** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	50	54	**107** %	50	48	**95** %	**12** %	70 - 130 %	20%
60-29-7	Diethyl Ether	100	88	**88** %	100	84	**84** %	**4** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	50	51	**102** %	50	45	**90** %	**12** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	100	110	**113** %	100	110	**107** %	**5** %	70 - 130 %	20%
67-64-1	Acetone	100	99	**99** %	100	91	**91** %	**8** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	100	79	**79** %	100	75	**75** %	**5** %	70 - 130 %	20%
75-09-2	Methylene Chloride	50	47	**95** %	50	46	**93** %	**2** %	70 - 130 %	20%
107-13-1	Acrylonitrile	50	43	**86** %	50	38	**76** %	**13** %	70 - 130 %	20%
156-60-5	*trans*- 1,2-Dichloroethene	50	51	**103** %	50	48	**95** %	**7** %	70 - 130 %	20%
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	50	43	**86** %	50	46	**92** %	**7** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	50	44	**88** %	50	48	**95** %	**8** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	50	53	**106** %	50	48	**96** %	**11** %	70 - 130 %	20%
156-59-2	*cis*- 1,2-Dichloroethene	50	53	**106** %	50	49	**98** %	**7** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	100	96	**96** %	100	83	**83** %	**15** %	70 - 130 %	20%
74-97-5	Bromochloromethane	50	53	**106** %	50	53	**105** %	**1** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	100	82	**82** %	100	75	**75** %	**9** %	70 - 130 %	20%
67-66-3	Chloroform	50	55	**110** %	50	55	**111** %	**1** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	50	57	**114** %	50	51	**102** %	**11** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	50	56	**112** %	50	57	**113** %	**1** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	50	51	**102** %	50	45	**90** %	**12** %	70 - 130 %	20%
71-43-2	Benzene	50	47	**94** %	50	43	**86** %	**9** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	50	54	**107** %	50	49	**97** %	**10** %	70 - 130 %	20%
79-01-6	Trichloroethene	50	53	**106** %	50	50	**100** %	**6** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	50	47	**93** %	50	44	**88** %	**6** %	70 - 130 %	20%
74-95-3	Dibromomethane	50	48	**96** %	50	46	**92** %	**4** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	50	54	**108** %	50	52	**105** %	**3** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	1,000	850	**85** %	1,000	630	**63** % q	**29** % q	70 - 130 %	20%
10061-01-5	*cis*- 1,3-Dichloropropene	50	48	**96** %	50	47	**95** %	**2** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	100	90	**90** %	100	84	**84** %	**7** %	70 - 130 %	20%
108-88-3	Toluene	50	51	**102** %	50	49	**97** %	**4** %	70 - 130 %	20%
10061-02-6	*trans*- 1,3-Dichloropropene	50	46	**92** %	50	43	**87** %	**6** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	50	45	**90** %	50	40	**80** %	**11** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	50	57	**115** %	50	51	**101** %	**12** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	50	48	**97** %	50	41	**83** %	**16** %	70 - 130 %	20%
591-78-6	2-Hexanone	100	89	**89** %	100	75	**75** %	**17** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	50	50	**99** %	50	45	**89** %	**11** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	50	48	**95** %	50	41	**82** %	**14** %	70 - 130 %	20%
108-90-7	Chlorobenzene	50	49	**98** %	50	43	**87** %	**12** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	50	56	**113** %	50	51	**103** %	**9** %	70 - 130 %	20%
100-41-4	Ethylbenzene	50	49	**98** %	50	45	**89** %	**9** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	100	100	**102** %	100	94	**94** %	**7** %	70 - 130 %	20%
95-47-6	*ortho*- Xylene	50	46	**92** %	50	43	**86** %	**7** %	70 - 130 %	20%
100-42-5	Styrene	50	53	**106** %	50	46	**92** %	**14** %	70 - 130 %	20%
75-25-2	Bromoform	50	57	**114** %	50	49	**98** %	**15** %	70 - 130 %	20%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2941-S**	Analyzed:	**10-25-10 06:07**	Analyzed:	**10-25-10 06:44**
Matrix:	**Soil**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/kg**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
98-82-8	Isopropylbenzene	50	41	**83** %	50	39	**78** %	**6** %	70 - 130 %	20%
108-86-1	Bromobenzene	50	48	**95** %	50	46	**92** %	**4** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	50	37	**74** %	50	34	**67** % q	**10** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	50	44	**88** %	50	39	**78** %	**12** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	190	**93** %	200	170	**83** %	**11** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	50	44	**87** %	50	40	**80** %	**8** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	50	46	**92** %	50	45	**90** %	**3** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	50	46	**92** %	50	45	**90** %	**2** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	50	44	**88** %	50	43	**86** %	**2** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	50	48	**95** %	50	43	**86** %	**10** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	50	48	**95** %	50	46	**92** %	**3** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	50	45	**90** %	50	41	**82** %	**10** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	50	44	**89** %	50	42	**85** %	**5** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	50	50	**101** %	50	45	**89** %	**12** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	50	45	**90** %	50	44	**88** %	**3** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	50	44	**88** %	50	42	**85** %	**3** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	50	41	**82** %	50	43	**85** %	**4** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	50	40	**81** %	50	38	**75** %	**7** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	50	51	**102** %	50	42	**84** %	**19** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	50	44	**88** %	50	41	**83** %	**6** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	50	41	**81** %	50	39	**79** %	**3** %	70 - 130 %	20%
91-20-3	Naphthalene	50	40	**80** %	50	36	**72** %	**10** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	50	43	**86** %	50	41	**82** %	**5** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	1,000	770	**77** %	1,000	710	**71** %	**8** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	50	40	**80** %	50	42	**84** %	**4** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	50	45	**90** %	50	44	**88** %	**2** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	50	45	**91** %	50	43	**85** %	**6** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	50	48	**96** %	50	49	**98** %		70 - 130 %
1,2-Dichloroethane-d_4	50	47	**95** %	50	47	**94** %		70 - 130 %
Toluene-d_8	50	51	**101** %	50	50	**99** %		70 - 130 %
4-Bromofluorobenzene	50	43	**85** %	50	48	**96** %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5035A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2941-S**	Analyzed:	**10-25-10 07:21**
Matrix:	**Soil**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/Kg	10
74-87-3	Chloromethane	BRL		ug/Kg	10
75-01-4	Vinyl Chloride	BRL		ug/Kg	10
74-83-9	Bromomethane	BRL		ug/Kg	10
75-00-3	Chloroethane	BRL		ug/Kg	10
75-69-4	Trichlorofluoromethane	BRL		ug/Kg	10
60-29-7	Diethyl Ether	BRL		ug/Kg	10
75-35-4	1,1-Dichloroethene	BRL		ug/Kg	5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/Kg	50
67-64-1	Acetone	BRL		ug/Kg	200
75-15-0	Carbon Disulfide	BRL		ug/Kg	50
75-09-2	Methylene Chloride	BRL		ug/Kg	50
107-13-1	Acrylonitrile	BRL		ug/Kg	5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/Kg	5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/Kg	5
75-34-3	1,1-Dichloroethane	BRL		ug/Kg	5
594-20-7	2,2-Dichloropropane	BRL		ug/Kg	5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/Kg	5
78-93-3	2-Butanone (MEK)	BRL		ug/Kg	50
74-97-5	Bromochloromethane	BRL		ug/Kg	5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/Kg	50
67-66-3	Chloroform	BRL		ug/Kg	5
71-55-6	1,1,1-Trichloroethane	BRL		ug/Kg	5
56-23-5	Carbon Tetrachloride	BRL		ug/Kg	5
563-58-6	1,1-Dichloropropene	BRL		ug/Kg	5
71-43-2	Benzene	BRL		ug/Kg	5
107-06-2	1,2-Dichloroethane	BRL		ug/Kg	5
79-01-6	Trichloroethene	BRL		ug/Kg	5
78-87-5	1,2-Dichloropropane	BRL		ug/Kg	5
74-95-3	Dibromomethane	BRL		ug/Kg	5
75-27-4	Bromodichloromethane	BRL		ug/Kg	5
123-91-1	1,4-Dioxane	BRL		ug/Kg	5,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/Kg	5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/Kg	50
108-88-3	Toluene	BRL		ug/Kg	5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/Kg	5
79-00-5	1,1,2-Trichloroethane	BRL		ug/Kg	5
127-18-4	Tetrachloroethene	BRL		ug/Kg	5
142-28-9	1,3-Dichloropropane	BRL		ug/Kg	5
591-78-6	2-Hexanone	BRL		ug/Kg	50
124-48-1	Dibromochloromethane	BRL		ug/Kg	5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/Kg	5
108-90-7	Chlorobenzene	BRL		ug/Kg	5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/Kg	5
100-41-4	Ethylbenzene	BRL		ug/Kg	5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/Kg	5
95-47-6	*ortho*- Xylene	BRL		ug/Kg	5
100-42-5	Styrene	BRL		ug/Kg	5
75-25-2	Bromoform	BRL		ug/Kg	5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-1 HP 5890**
QC Batch ID:	**VM1-2941-S**	Analyzed:	**10-25-10 07:21**
Matrix:	**Soil**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/Kg	5
108-86-1	Bromobenzene	BRL		ug/Kg	5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/Kg	5
96-18-4	1,2,3-Trichloropropane	BRL		ug/Kg	5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/Kg	50
103-65-1	*n*-Propylbenzene	BRL		ug/Kg	5
95-49-8	2-Chlorotoluene	BRL		ug/Kg	5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/Kg	5
106-43-4	4-Chlorotoluene	BRL		ug/Kg	5
98-06-6	*tert*-Butylbenzene	BRL		ug/Kg	5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/Kg	5
135-98-8	*sec*-Butylbenzene	BRL		ug/Kg	5
541-73-1	1,3-Dichlorobenzene	BRL		ug/Kg	5
99-87-6	4-Isopropyltoluene	BRL		ug/Kg	5
106-46-7	1,4-Dichlorobenzene	BRL		ug/Kg	5
95-50-1	1,2-Dichlorobenzene	BRL		ug/Kg	5
104-51-8	*n*-Butylbenzene	BRL		ug/Kg	5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/Kg	5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/Kg	5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/Kg	5
87-68-3	Hexachlorobutadiene	BRL		ug/Kg	5
91-20-3	Naphthalene	BRL		ug/Kg	5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/Kg	5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/Kg	200
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/Kg	5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/Kg	5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/Kg	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	50	54	**107** %	70 - 130 %
1,2-Dichloroethane-d_4	50	42	**83** %	70 - 130 %
Toluene-d_8	50	51	**101** %	70 - 130 %
4-Bromofluorobenzene	50	47	**94** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5035A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

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Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

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GROUNDWATER ANALYTICAL

e-mail

To:	Sean Healey	From:	e-mail reporting GWA
	Weston & Sampson -	Pages:	71
e-mail:	healeys@wseinc.com	Date:	11/08/2010 17:06:41
Re:	137488	CC:	

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply

● Comments:

Final Project Report for New Bedford Brownfields, Lab ID 137488, Received 10-29-10

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November 8, 2010

Mr. Sean Healey
Weston & Sampson, Inc.
5 Centennial Drive
Peabody, MA 01960

LABORATORY REPORT

Project: **New Bedford Brownfields**
Lab ID: **137488**
Received: **10-29-10**

Dear Sean:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**New Bedford Brownfields**	Delivery:	**GWA Courier**	Temperature:	**4.5ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137488**	Lab Receipt:	**10-29-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-2	MW-2		Aqueous	10/28/10 10:40	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311497	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311439	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311425	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-3	MW-3		Aqueous	10/28/10 11:45	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311462	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311457	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311426	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-5	MW-5		Aqueous	10/28/10 14:40	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311482	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311455	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311454	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-6	MW-6		Aqueous	10/29/10 9:20	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311478	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311477	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311456	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-7	MW-7		Aqueous	10/29/10 10:55	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311475	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311467	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311448	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-8	MW-8		Aqueous	10/29/10 12:00	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311488	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311487	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311468	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-9	DUP-1		Aqueous	10/28/10 15:00	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311500	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311466	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311465	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-10	Trip Blank		Aqueous	10/28/10 9:00	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311494	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311493	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford Brownfields**	Delivery:	**GWA Courier**	Temperature:	**4.5ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137488**	Lab Receipt:	**10-29-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-12	MW-2		Aqueous	10/28/10 10:40	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311485	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311476	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311438	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-13	MW-3		Aqueous	10/28/10 11:45	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311461	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311437	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311427	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-15	MW-5		Aqueous	10/28/10 14:40	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311479	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311464	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311446	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-16	MW-6		Aqueous	10/28/10 9:20	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311483	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311459	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311458	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-17	MW-7		Aqueous	10/29/10 10:55	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311496	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311486	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311453	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-18	MW-8		Aqueous	10/28/10 12:00	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311495	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311474	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311473	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-19	DUP-1		Aqueous	10/28/10 15:00	MA DEP VPH Carbon Ranges Only				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1311499	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311498	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		
C1311484	40 mL VOA Vial	Proline	BX37587	HCL	R-5915D	10-13-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-20	MW-1		Aqueous	10/28/10 9:00	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298272	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford Brownfields**	Delivery:	**GWA Courier**	Temperature:	**4.5ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137488**	Lab Receipt:	**10-29-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-21	MW-2		Aqueous	10/28/10 10:40	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1308537	250 mL Plastic	Proline	BX37568	HNO3	R-6113E	10-14-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-22	MW-3		Aqueous	10/28/10 11:45	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298222	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-23	MW-4		Aqueous	10/28/10 13:20	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1308540	250 mL Plastic	Proline	BX37568	HNO3	R-6113E	10-14-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-24	MW-5		Aqueous	10/28/10 14:40	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298160	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-25	MW-6		Aqueous	10/29/10 9:20	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298214	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-26	MW-7		Aqueous	10/29/10 10:55	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298243	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-27	MW-8		Aqueous	10/29/10 12:00	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298206	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-28	DUP-1		Aqueous	10/29/10 12:00	EPA 6010B/6020A/7470A 8 RCRA Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1298176	250 mL Plastic	Proline	BX37622	HNO3	R-6113E	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-29	MW-1		Aqueous	10/28/10 9:00	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296358	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		
C1296357	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-30	MW-2		Aqueous	10/28/10 10:40	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296356	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		
C1296353	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**New Bedford Brownfields**	Delivery:	**GWA Courier**	Temperature:	**4.5ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137488**	Lab Receipt:	**10-29-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-31	MW-3		Aqueous	10/28/10 11:45	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296352	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		
C1296350	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-32	MW-4		Aqueous	10/28/10 13:20	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296355	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		
C1296348	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-33	MW-5		Aqueous	10/28/10 14:40	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1292067	1 L Amber Glass	Proline	BX37336	H2SO4	R-6054H	10-14-10	n/a		
C1296351	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-34	MW-6		Aqueous	10/29/10 9:20	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296354	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		
C1296349	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-35	MW-7		Aqueous	10/29/10 10:55	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296359	1 L Amber Glass	Proline	BX37782	H2SO4	n/a	n/a	n/a		
C1296408	1 L Amber Glass	Proline	BX37774	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-36	MW-8		Aqueous	10/29/10 12:00	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296416	1 L Amber Glass	Proline	BX37774	H2SO4	n/a	n/a	n/a		
C1296412	1 L Amber Glass	Proline	BX37774	H2SO4	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137488-37	DUP-1		Aqueous	10/29/10 15:00	MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1296411	1 L Amber Glass	Proline	BX37774	H2SO4	n/a	n/a	n/a		
C1296409	1 L Amber Glass	Proline	BX37774	H2SO4	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**New Bedford Brownfields**	Lab ID:	**137488**
Client:	**Weston & Sampson, Inc.**	Received:	**10-29-10 13:03**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8260B:	137488-2,-3,-5,-6,-7,-8,-9,-10
MA DEP VPH:	137488-12,-13,-15,-16,-17,-18,-19
MA DEP EPH:	137488-29,-30,-31,-32,-33,-34,-35,-36,-37
EPA 6010B:	137488-20,-21,-22,-23,-24,-25,-26,-27,-28
EPA 6020A:	137488-20,-21,-22,-23,-24,-25,-26,-27,-28
EPA 7470A/1A:	137488-20,-21,-22,-23,-24,-25,-26,-27,-28

Sample Matrices: Groundwater/Surface (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B (X)	Mass DEP VPH CAM IV A (X)	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D (X)	8082 PCB CAM V A ( )	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	No
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	No

All negative responses must be addressed in an attached laboratory 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:	Karyn E. Raymond	Position:	Project Manager
Printed Name:	Karyn E. Raymond	Date:	11-08-10

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-2**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-2**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-28-10 10:40**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 12:59**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-2**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-2**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-28-10 10:40**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 12:59**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	**0.6**		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	**13**		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**108** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**113** %	70 - 130 %
Toluene-d_8	10	10	**97** %	70 - 130 %
4-Bromofluorobenzene	10	9	**91** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-3**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-3**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-28-10 11:45**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 13:22**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	**22**		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	**1**		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-3**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-3**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-28-10 11:45**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 13:22**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**105** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**112** %	70 - 130 %
Toluene-d_8	10	10	**97** %	70 - 130 %
4-Bromofluorobenzene	10	9	**89** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-5**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-5**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-28-10 14:40**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 13:46**	Dilution Factor:	**20**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	10
74-87-3	Chloromethane	BRL		ug/L	10
75-01-4	Vinyl Chloride	BRL		ug/L	10
74-83-9	Bromomethane	BRL		ug/L	10
75-00-3	Chloroethane	BRL		ug/L	10
75-69-4	Trichlorofluoromethane	BRL		ug/L	10
60-29-7	Diethyl Ether	BRL		ug/L	40
75-35-4	1,1-Dichloroethene	BRL		ug/L	10
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	100
67-64-1	Acetone	**260**		ug/L	200
75-15-0	Carbon Disulfide	BRL		ug/L	100
75-09-2	Methylene Chloride	BRL		ug/L	50
107-13-1	Acrylonitrile	BRL		ug/L	50
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	10
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	10
75-34-3	1,1-Dichloroethane	BRL		ug/L	10
594-20-7	2,2-Dichloropropane	BRL		ug/L	10
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	10
78-93-3	2-Butanone (MEK)	BRL		ug/L	100
74-97-5	Bromochloromethane	BRL		ug/L	10
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	100
67-66-3	Chloroform	BRL		ug/L	10
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	10
56-23-5	Carbon Tetrachloride	BRL		ug/L	10
563-58-6	1,1-Dichloropropene	BRL		ug/L	10
71-43-2	Benzene	BRL		ug/L	10
107-06-2	1,2-Dichloroethane	BRL		ug/L	10
79-01-6	Trichloroethene	BRL		ug/L	10
78-87-5	1,2-Dichloropropane	BRL		ug/L	10
74-95-3	Dibromomethane	BRL		ug/L	10
75-27-4	Bromodichloromethane	BRL		ug/L	10
123-91-1	1,4-Dioxane	BRL		ug/L	10,000
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	8
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	100
108-88-3	Toluene	**22**		ug/L	10
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	8
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	10
127-18-4	Tetrachloroethene	BRL		ug/L	10
142-28-9	1,3-Dichloropropane	BRL		ug/L	10
591-78-6	2-Hexanone	BRL		ug/L	100
124-48-1	Dibromochloromethane	BRL		ug/L	10
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	10
108-90-7	Chlorobenzene	BRL		ug/L	10
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	10
100-41-4	Ethylbenzene	BRL		ug/L	10
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	10

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-5**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-5**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-28-10 14:40**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 13:46**	Dilution Factor:	**20**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	10
100-42-5	Styrene	BRL		ug/L	10
75-25-2	Bromoform	BRL		ug/L	10
98-82-8	Isopropylbenzene	BRL		ug/L	10
108-86-1	Bromobenzene	BRL		ug/L	10
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	10
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	10
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	500
103-65-1	*n* -Propylbenzene	BRL		ug/L	10
95-49-8	2-Chlorotoluene	BRL		ug/L	10
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	10
106-43-4	4-Chlorotoluene	BRL		ug/L	10
98-06-6	*tert*- Butylbenzene	BRL		ug/L	10
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	10
135-98-8	*sec* -Butylbenzene	BRL		ug/L	10
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	10
99-87-6	4-Isopropyltoluene	BRL		ug/L	10
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	10
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	10
104-51-8	*n* -Butylbenzene	BRL		ug/L	10
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	10
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	10
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	10
87-68-3	Hexachlorobutadiene	BRL		ug/L	10
91-20-3	Naphthalene	**1,200**		ug/L	10
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	10
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	400
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	10
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	10
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	10

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**106** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**112** %	70 - 130 %
Toluene-d_8	10	10	**99** %	70 - 130 %
4-Bromofluorobenzene	10	9	**88** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-6**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-6**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-29-10 09:20**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 14:09**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-6**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-6**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-29-10 09:20**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 14:09**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**100** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**110** %	70 - 130 %
Toluene-d_8	10	9	**94** %	70 - 130 %
4-Bromofluorobenzene	10	9	**86** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-7**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-7**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-29-10 10:55**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 14:32**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	**62**		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-7**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-7**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-29-10 10:55**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 14:32**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**104** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**114** %	70 - 130 %
Toluene-d_8	10	10	**96** %	70 - 130 %
4-Bromofluorobenzene	10	9	**92** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-8**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-8**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-29-10 12:00**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 14:55**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	**43**		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-8**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-8**	QC Batch ID:	**VM10-1170-W**
Sampled:	**10-29-10 12:00**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 14:55**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**106** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**109** %	70 - 130 %
Toluene-d_8	10	10	**98** %	70 - 130 %
4-Bromofluorobenzene	10	9	**88** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**DUP-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-9**	QC Batch ID:	**VM10-1171-W**
Sampled:	**10-28-10 15:00**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-05-10 14:42**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**DUP-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-9**	QC Batch ID:	**VM10-1171-W**
Sampled:	**10-28-10 15:00**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-05-10 14:42**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**97** %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	**105** %	70 - 130 %
Toluene-d_8	10	9	**90** %	70 - 130 %
4-Bromofluorobenzene	10	8	**81** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**Trip Blank**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-10**	QC Batch ID:	**VM10-1171-W**
Sampled:	**10-28-10 09:00**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-05-10 15:06**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**Trip Blank**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-10**	QC Batch ID:	**VM10-1171-W**
Sampled:	**10-28-10 09:00**	Instrument ID:	**MS-10 HP 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-05-10 15:06**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**95** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**108** %	70 - 130 %
Toluene-d_8	10	9	**92** %	70 - 130 %
4-Bromofluorobenzene	10	8	**84** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-2**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-12**	QC Batch ID:	**VGA-4643-W**
Sampled:	**10-28-10 10:40**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-03-10 13:59**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	57	**113** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	56	**111** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-3**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-13**	QC Batch ID:	**VGA-4643-W**
Sampled:	**10-28-10 11:45**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-03-10 14:39**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	53	**106** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	52	**104** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-5**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-15**	QC Batch ID:	**VGA-4643-W**
Sampled:	**10-28-10 14:40**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-03-10 15:19**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	**45**		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	**22**		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	**100**		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	70		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	130		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	64	**127** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	60	**121** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-6**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-16**	QC Batch ID:	**VGA-4644-W**
Sampled:	**10-28-10 09:20**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 13:07**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	52	**104** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	52	**104** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-7**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-17**	QC Batch ID:	**VGA-4644-W**
Sampled:	**10-29-10 10:55**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-04-10 15:09**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	59	**119** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	59	**117** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-8**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-18**	QC Batch ID:	**VGA-4643-W**
Sampled:	**10-28-10 12:00**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-03-10 17:20**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	55	**109** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	53	**106** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**DUP-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137488-19**	QC Batch ID:	**VGA-4643-W**
Sampled:	**10-28-10 15:00**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**5 mL**
Analyzed:	**11-03-10 18:00**	Dilution Factor:	**1**
Analyst:	**GY**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	55	**110** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	55	**109** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-20**	Preserved:	**10-28-10 09:00**
Sampled:	**10-28-10 09:00**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 18:36	EPA 6010B[1]
7440-39-3	Barium, Total	BRL		mg/L	0.05	1	11-02-10 18:36	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 18:36	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 18:36	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 18:36	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 18:36	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 18:36	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-2**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-21**	Preserved:	**10-28-10 10:40**
Sampled:	**10-28-10 10:40**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 18:40	EPA 6010B[1]
7440-39-3	Barium, Total	BRL		mg/L	0.05	1	11-02-10 18:40	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 18:40	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 18:40	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 18:40	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 18:40	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 18:40	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-3**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-22**	Preserved:	**10-28-10 11:45**
Sampled:	**10-28-10 11:45**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	**0.01**		mg/L	0.01	1	11-02-10 18:44	EPA 6010B[1]
7440-39-3	Barium, Total	BRL		mg/L	0.05	1	11-02-10 18:44	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 18:44	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 18:44	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 18:44	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 18:44	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 18:44	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-4**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-23**	Preserved:	**10-28-10 13:20**
Sampled:	**10-28-10 13:20**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 18:56	EPA 6010B[1]
7440-39-3	Barium, Total	BRL		mg/L	0.05	1	11-02-10 18:56	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 18:56	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 18:56	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 18:56	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 18:56	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 18:56	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-5**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-24**	Preserved:	**10-28-10 14:40**
Sampled:	**10-28-10 14:40**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 19:01	EPA 6010B[1]
7440-39-3	Barium, Total	**0.05**		mg/L	0.05	1	11-02-10 19:01	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 19:01	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 19:01	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 19:01	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 19:01	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 19:00	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-6**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-25**	Preserved:	**10-29-10 09:20**
Sampled:	**10-29-10 09:20**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 19:05	EPA 6010B[1]
7440-39-3	Barium, Total	**0.05**		mg/L	0.05	1	11-02-10 19:05	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 19:05	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 19:05	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 19:05	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 19:05	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 19:05	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-7**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-26**	Preserved:	**10-29-10 10:55**
Sampled:	**10-29-10 10:55**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 19:09	EPA 6010B[1]
7440-39-3	Barium, Total	**0.08**		mg/L	0.05	1	11-02-10 19:09	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 19:09	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 19:09	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 19:09	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 19:09	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 19:09	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**MW-8**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-27**	Preserved:	**10-29-10 12:00**
Sampled:	**10-29-10 12:00**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 19:13	EPA 6010B[1]
7440-39-3	Barium, Total	BRL		mg/L	0.05	1	11-02-10 19:13	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 19:13	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 19:13	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 19:13	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 19:13	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 19:13	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**DUP-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**250 mL Plastic**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**137488-28**	Preserved:	**10-29-10 12:00**
Sampled:	**10-29-10 12:00**		
Received:	**10-29-10 13:03**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B[1]	MB-4227-W	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A[2]	MP-2331-W	EPA 7470A	11-04-10 00:00	25 mL		LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	BRL		mg/L	0.01	1	11-02-10 19:18	EPA 6010B[1]
7440-39-3	Barium, Total	**0.05**		mg/L	0.05	1	11-02-10 19:18	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/L	0.004	1	11-02-10 19:18	EPA 6010B[1]
7440-47-3	Chromium, Total	BRL		mg/L	0.01	1	11-02-10 19:18	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/L	0.005	1	11-02-10 19:18	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A[2]
7782-49-2	Selenium, Total	BRL		mg/L	0.05	1	11-02-10 19:18	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/L	0.007	1	11-02-10 19:17	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-29**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-28-10 09:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**1000 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-06-10 21:00**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-06-10 21:44**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	**520**		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	**390**		ug/L	100
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	430		ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	**7**		ug/L	5
129-00-0	Pyrene	**5**		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	33	**83** %	40 - 140 %
	2-Bromonaphthalene	40	32	**81** %	40 - 140 %
Extraction:	Chloro-octadecane	40	30	**76** %	40 - 140 %
	ortho-Terphenyl	40	35	**87** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-2**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-30**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-28-10 10:40**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**970 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-06-10 22:28**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-06-10 23:12**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	**170**		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	**110**		ug/L	100
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	140		ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	**7**		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	41	37	**89** %	40 - 140 %
	2-Bromonaphthalene	41	35	**85** %	40 - 140 %
Extraction:	Chloro-octadecane	41	32	**77** %	40 - 140 %
	ortho-Terphenyl	41	37	**89** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-3**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-31**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-28-10 11:45**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**910 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-06-10 23:55**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 00:39**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	110
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	110
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	110

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	44	37	**84** %	40 - 140 %
	2-Bromonaphthalene	44	37	**85** %	40 - 140 %
Extraction:	Chloro-octadecane	44	30	**68** %	40 - 140 %
	ortho-Terphenyl	44	31	**70** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-4**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-32**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-28-10 13:20**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**1000 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-07-10 01:23**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 01:07**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	100
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	34	**85** %	40 - 140 %
	2-Bromonaphthalene	40	35	**88** %	40 - 140 %
Extraction:	Chloro-octadecane	40	32	**80** %	40 - 140 %
	ortho-Terphenyl	40	36	**90** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-5**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-33**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-28-10 14:40**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**1000 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-07-10 01:51**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 02:35**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	**110**		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**1,200**	e	ug/L	100
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,900	e	ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	**510**	e	ug/L	5
91-57-6	2-Methylnaphthalene	**65**		ug/L	5
85-01-8	Phenanthrene	**58**		ug/L	5
83-32-9	Acenaphthene	**39**		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	**37**		ug/L	5
120-12-7	Anthracene	**9**		ug/L	5
206-44-0	Fluoranthene	**9**		ug/L	5
129-00-0	Pyrene	**7**		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	37	**92** %	40 - 140 %
	2-Bromonaphthalene	40	32	**80** %	40 - 140 %
Extraction:	Chloro-octadecane	40	29	**73** %	40 - 140 %
	ortho-Terphenyl	40	28	**71** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-5**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-33RA1**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-28-10 14:40**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**1000 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-08-10 13:47**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-08-10 14:31**	Aromatic Dilution Factor:	**2**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**1,200**		ug/L	200
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	1,900		ug/L	200

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	**500**		ug/L	10
91-57-6	2-Methylnaphthalene	**61**		ug/L	10
85-01-8	Phenanthrene	**65**		ug/L	10
83-32-9	Acenaphthene	**40**		ug/L	10
208-96-8	Acenaphthylene	BRL		ug/L	10
86-73-7	Fluorene	**36**		ug/L	10
120-12-7	Anthracene	**12**		ug/L	10
206-44-0	Fluoranthene	**12**		ug/L	10
129-00-0	Pyrene	BRL		ug/L	10
56-55-3	Benzo[a]anthracene	BRL		ug/L	10
218-01-9	Chrysene	BRL		ug/L	10
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	10
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	10
50-32-8	Benzo[a]pyrene	BRL		ug/L	10
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	10
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	10
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	10

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	36	**90** %	40 - 140 %
	2-Bromonaphthalene	40	32	**80** %	40 - 140 %
Extraction:	Chloro-octadecane	40	32	**80** %	40 - 140 %
	ortho-Terphenyl	40	24	**61** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-6**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-34**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-29-10 09:20**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**1000 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-07-10 03:19**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 04:02**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	110
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	110
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	110

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	35	**87** %	40 - 140 %
	2-Bromonaphthalene	40	35	**87** %	40 - 140 %
Extraction:	Chloro-octadecane	40	26	**66** %	40 - 140 %
	ortho-Terphenyl	40	32	**79** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-7**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-35**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-29-10 10:55**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**870 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-07-10 04:46**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 05:30**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	110
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	110
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	110

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	6
91-57-6	2-Methylnaphthalene	BRL		ug/L	6
85-01-8	Phenanthrene	BRL		ug/L	6
83-32-9	Acenaphthene	BRL		ug/L	6
208-96-8	Acenaphthylene	BRL		ug/L	6
86-73-7	Fluorene	BRL		ug/L	6
120-12-7	Anthracene	BRL		ug/L	6
206-44-0	Fluoranthene	BRL		ug/L	6
129-00-0	Pyrene	BRL		ug/L	6
56-55-3	Benzo[a]anthracene	BRL		ug/L	6
218-01-9	Chrysene	BRL		ug/L	6
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	6
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	6
50-32-8	Benzo[a]pyrene	BRL		ug/L	6
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	6
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	6
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	6

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	46	39	**85** %	40 - 140 %
	2-Bromonaphthalene	46	38	**83** %	40 - 140 %
Extraction:	Chloro-octadecane	46	35	**77** %	40 - 140 %
	ortho-Terphenyl	46	38	**83** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**MW-8**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-36**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-29-10 12:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**990 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-07-10 06:14**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 06:58**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	150
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	150
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	150
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	150

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	34	**85** %	40 - 140 %
	2-Bromonaphthalene	40	35	**86** %	40 - 140 %
Extraction:	Chloro-octadecane	40	29	**73** %	40 - 140 %
	ortho-Terphenyl	40	32	**80** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**DUP-1**	Matrix:	**Aqueous**
Project:	**New Bedford Brownfields**	Container:	**1 L Amber Glass**
Client:	**Weston & Sampson, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**137488-37**	QC Batch ID:	**EP-2359-F**
Sampled:	**10-29-10 15:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**10-29-10 13:03**	Sample Volume:	**1000 mL**
Extracted:	**11-05-10 18:00**	Final Volume:	**1 mL**
Analyzed (AL):	**11-07-10 07:42**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**11-07-10 08:26**	Aromatic Dilution Factor:	**1**
Analyst:	**KM**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	100
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	36	**90** %	40 - 140 %
	2-Bromonaphthalene	40	35	**88** %	40 - 140 %
Extraction:	Chloro-octadecane	40	31	**77** %	40 - 140 %
	ortho-Terphenyl	40	34	**85** %	40 - 140 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**New Bedford Brownfields**	Lab ID:	**137488**
Client:	**Weston & Sampson, Inc.**	Received:	**10-29-10 13:03**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Project 137488 was changed to a 5 day turnaround time, per Sean Healey, 11-2-10.
2. Samples identified as "MW-1" and "MW-4" were canceled for EPA 8260 and MA DEP VPH per Sean Healey, 11-2 10.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 6010B Note: Samples 137488-20 through -28. Samples were analyzed for selected target analytes, as requested by client.
2. EPA 8260B Non-conformance: Laboratory control sample (LCS) analyte Methylene Chloride was above recommended recovery limits and analyte Dichlorodifluoromethane was below recommended recovery limits for QC batch VM10-1171-W.
3. EPA 8260B Note: Sample 137488-5. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration. Elevated reporting limits are above the recommended CAM reporting limits for the target analytes.
4. MA DEP EPH Non-conformance: Laboratory control sample (LCS) analyte n-Decane was below recommended recovery limits for QC batch EP-2359-F.
5. MA DEP EPH Non-conformance: Laboratory control sample (LCS) analytes n-Nonane, n-Decane, n-Dodecane, Naphthalene and 2-Methylnaphthalene were outside recommended recovery limits for QC batch EP-2359-F.
6. MA DEP EPH Note: Sample 137488-33RA1. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration. Sample had reporting limits above the recommended CAM reporting limits for the EPH fractions.
7. MA DEP EPH Non-conformance: Sample 137488-33. Reported results for selected analytes exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
8. EPA 8260B Note: Samples 137488-2, -3 and -5 through -8. Response factor for Acetone was below the recommended limit in the CCV/LCS.
9. EPA 8260B Note: Samples 137488-2, -3 and -5 through -8. Relative percent deviations for Acrylonitrile, Tetrachloroethene, 2-Hexanone, 1,2-Dibromoethane, 1,1,2,2-Tetrachloroethane, Isopropylbenzene and trans-1,4-Dichloro-2-butene were above the recommended limit in the CCV.
10. EPA 8260B Note: Samples 137488-9 and -10. Relative percent deviations for Dichlorodifluoromethane, 1,1,2-Trichlorotrifluoroethane, tert-Amyl Methyl Ether, Tetrachloroethene, Isopropylbenzene, trans-1,4-Dichloro-2-butene and 1,2-Dibromo-3-chloropropane were above the recommended limit in the CCV.

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: New Bedford Brownfields Brook St
Firm: Weston & Sampson
Project Number:
Address: 5 Centennial Drive
Sampler Name: K. Novello
City / State / Zip:: Peabody, MA 01960
Project Manager: S. Henley
Telephone: 978 532 1700

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☑ 10 Business Days
- ☐ 5 Business Days
- ☐ RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- ☐ Please Email to: _____
- ☐ Please FAX to: _____

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ 7IC Search; Semivolatiles: ☐ Acid Only ☐ B/N Only ☐ 7IC Search

SDWA: ☐ 524.2; Volatiles: ☐ 524.2; Semivolatiles: ☐ 525.2; Pest/Herb/PCBs Extractable: ☐ 505 ☐ 508; Pest/Herb/PCBs Vol.: ☐ 531.1 ☐ 515.3 ☐ 504.1 EDB/DBCP; Metals: ☐ Lead and Copper

NPDES: ☐ 624; Volatiles: ☐ 624 ☐ 602+MTBE; Semivolatiles: ☐ 625 ☐ 625 PAHs only; Pest/Herb/PCBs Extractable: ☐ 608 Pesticides ☐ 608 PCBs; Pest/Herb/PCBs Vol.: ☐ 615; Metals: ☐ 13 Priority Pollutant

RCRA/21E: Volatiles: ☐ 8260B TCL+MTBE ☐ 8260B; ☐ 8260B Aromatics ☐ 8260B Halocarbons ☐ 8021B Vermont; Semivolatiles: ☐ 8270C ☐ 8270C PAHs only; Pest/Herb/PCBs Extractable: ☐ 8081A Pesticides ☐ 8082 PCBs; Pest/Herb/PCBs Vol.: ☐ 8151A Herbicides ☐ 8011 EDB/DBCP; Metals: ☐ 8 RCRA ☐ 13 RCRA ☐ 14 MA DEP Metals ☐ 23 TAL

Metals: Specify For Water Samples ☐ Total ☐ Dissolved; ☐ Specify:

Petroleum Hydrocarbon Ext. TPH: ☐ Diesel Range Organics (DRO) ☐ ME DRO ☐ CT ETPH ☐ MA DEP EPH w/all targets ☐ EPH (Carbon Ranges only) ☐ EPH w/4 PAHs ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00-Mod.) ☐ TPH by GC/FID (8015B Mod) Quantitative Only

Petroleum Hydrocarbon Vol. TPH: ☐ Gasoline Range Organics (GRO) ☐ ME GRO ☐ MA DEP VPH ~~w/targets~~ ☐ VPH ~~(Carbon ranges~~ only

Haz. Waste: ☐ TCLP ☐ SPLP ☐ 8 Metals ☐ Pb only ☐ VOA ☐ Semi VOA ☐ Pesticides ☐ Herbicides ☐ Corrosivity (as pH) ☐ Reactivity ☐ Ignitability ☐ Conductivity ☐ Paint Filter ☐ MA Basic Disposal: 8260B/TCL, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity ☐ MA Extended Disposal 8260B, 8270C, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity

General Chemistry: ☐ Nitrate ☐ Nitrite ☐ Chlorine ☐ Fluoride ☐ Sulfate ☐ Dissolved Phosphorus ☐ Phosphorus ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as N02/N03/TKN) ☐ Oil & Grease ☐ COD ☐ TOC ☐ BOD ☐ CBOD ☐ TDS ☐ TSS ☐ TS ☐ Alkalinity ☐ Total Cyanide ☐ Physiologically Available Cyanide ☐ Available Cyanide

Other: ☐ pH ☐ Dissolved Oxygen ☐ Turbidity ☐ Total Coliform ☐ Fecal Coliform ☐ HPC ☐ MA DEP Asbestos in Soil ☐ Asbestos (PLM)

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s) NUMBER	40mL VOA Vial	60mL/1/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: HCl	HNO_3	H_2SO_4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
10/28	09:00	MW-1	✓									✓					✓	✓				✓	✓	✓					✓		
10/28	10:40	MW-2	✓									✓					✓	✓				✓	✓	✓					✓		
10/28	11:45	MW-3	✓									✓					✓	✓				✓	✓	✓					✓		
10/28	13:20	MW-4										✓					✓	✓				✓	✓	✓					✓		
10/28	14:40	MW-5	✓									✓					✓	✓				✓	✓	✓					✓		
10/29	0920	MW-6	✓									✓					✓	✓				✓	✓	✓					✓		
10/29	10:55	MW-7	✓									✓					✓	✓				✓	✓	✓					✓		
10/29	12:00	MW-8	✓									✓					✓	✓				✓	✓	✓					✓		
10/29	15:00	DUP-1	✓									✓					✓	✓				✓	✓	✓					✓		

REMARKS / SPECIAL INSTRUCTIONS

☑ YES ☐ NO MCP Data Certification required.

☐ YES ☑ NO MCP Drinking Water Sample Included.
(Volatile analyses require duplicate collection and Trip Blanks).

☐ Analyze Duplicates and Trips Blanks only if positive results.

☐ YES ☐ NO CT RCP Data Certification required.

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☑ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☑ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date / Time	Received by:	Receipt Temperature:
K. Novello	10/29/10 1200	Joe Cleary 10/29/10	☐ Ice ☐ Refrigerated 2-6°C Recommended 4.5
Relinquished by:	**Date / Time**	**Received by:**	**Container Count:**
Joe Cleary	10/29/10 1303	[illegible]	83
Relinquished by:	**Date / Time**	**Received by Laboratory:**	**Shipping/Airbill Number:**

Method of Shipment: ☑ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**MA DEP EPH Method**	Instrument ID:	**GC-9 Agilent 6890**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-2359-F**	Extracted:	**11-05-10 18:00**	Extracted:	**11-05-10 18:00**
Matrix:	**Aqueous**	Analyzed (AL):	**11-06-10 21:06**	Analyzed (AL):	**11-06-10 22:33**
Units:	**ug/L**	Analyzed (AR):	**11-06-10 21:50**	Analyzed (AR):	**11-06-10 23:17**
		Analyst:	**KM**	Analyst:	**KM**

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
111-84-2	*n*-Nonane (C_9)	50	23	**45** %	50	16	**32** %	**35** % q	30 - 140 %	25%
124-18-5	*n*-Decane (C_{10})	50	26	**51** %	50	19	**38** % q	**31** % q	40 - 140 %	25%
112-40-3	*n*-Dodecane (C_{12})	50	29	**58** %	50	22	**43** %	**29** % q	40 - 140 %	25%
629-59-4	*n*-Tetradecane (C_{14})	50	33	**67** %	50	26	**53** %	**23** %	40 - 140 %	25%
544-76-3	*n*-Hexadecane (C_{16})	50	37	**73** %	50	31	**63** %	**16** %	40 - 140 %	25%
593-45-3	*n*-Octadecane (C_{18})	50	42	**83** %	50	40	**79** %	**5** %	40 - 140 %	25%
n/a	*n*-C9 to *n*-C18 Group	300	190	**63** %	300	150	**51** %	**21** %	40 - 140 %	25%
629-92-5	*n*-Nonadecane (C_{19})	50	41	**83** %	50	42	**85** %	**2** %	40 - 140 %	25%
112-95-8	*n*-Eicosane (C_{20})	50	41	**83** %	50	44	**89** %	**7** %	40 - 140 %	25%
629-97-0	*n*-Docosane (C_{22})	50	39	**77** %	50	43	**85** %	**10** %	40 - 140 %	25%
646-31-1	*n*-Tetracosane (C_{24})	50	39	**79** %	50	44	**88** %	**11** %	40 - 140 %	25%
630-01-3	*n*-Hexacosane (C_{26})	50	38	**76** %	50	42	**84** %	**10** %	40 - 140 %	25%
630-02-4	*n*-Octacosane (C_{28})	50	37	**74** %	50	41	**82** %	**10** %	40 - 140 %	25%
638-68-6	*n*-Triacontane (C_{30})	50	36	**72** %	50	40	**80** %	**10** %	40 - 140 %	25%
630-06-8	*n*-Hexatriacontane (C_{36})	50	33	**66** %	50	37	**73** %	**11** %	40 - 140 %	25%
n/a	*n*-C19 to *n*-C36 Group	400	300	**76** %	400	330	**83** %	**9** %	40 - 140 %	25%
91-20-3	Naphthalene	50	31	**62** %	50	23	**46** %	**30** % q	40 - 140 %	25%
91-57-6	2-Methylnaphthalene	50	34	**67** %	50	25	**51** %	**28** % q	40 - 140 %	25%
208-96-8	Acenaphthylene	50	38	**75** %	50	29	**59** %	**24** %	40 - 140 %	25%
83-32-9	Acenaphthene	50	37	**75** %	50	30	**60** %	**22** %	40 - 140 %	25%
86-73-7	Fluorene	50	38	**76** %	50	31	**63** %	**20** %	40 - 140 %	25%
85-01-8	Phenanthrene	50	41	**82** %	50	36	**72** %	**13** %	40 - 140 %	25%
120-12-7	Anthracene	50	44	**88** %	50	40	**80** %	**9** %	40 - 140 %	25%
206-44-0	Fluoranthene	50	44	**88** %	50	45	**89** %	**1** %	40 - 140 %	25%
129-00-0	Pyrene	50	43	**87** %	50	45	**89** %	**3** %	40 - 140 %	25%
56-55-3	Benzo[a]anthracene	50	38	**77** %	50	41	**82** %	**6** %	40 - 140 %	25%
218-01-9	Chrysene	50	43	**85** %	50	46	**92** %	**7** %	40 - 140 %	25%
205-99-2	Benzo[b]fluoranthene	50	38	**76** %	50	41	**81** %	**7** %	40 - 140 %	25%
207-08-9	Benzo[k]fluoranthene	50	40	**81** %	50	43	**85** %	**6** %	40 - 140 %	25%
50-32-8	Benzo[a]pyrene	50	40	**81** %	50	43	**86** %	**6** %	40 - 140 %	25%
193-39-5	Indeno[1,2,3-c,d]pyrene	50	39	**79** %	50	42	**84** %	**7** %	40 - 140 %	25%
53-70-3	Dibenzo[a,h]anthracene	50	41	**83** %	50	45	**89** %	**7** %	40 - 140 %	25%
191-24-2	Benzo[g,h,i]perylene	50	40	**80** %	50	42	**85** %	**6** %	40 - 140 %	25%
n/a	PAH Group	850	670	**79** %	850	650	**76** %	**4** %	40 - 140 %	25%

QC Surrogate Compound		Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Fractionation:	2-Fluorobiphenyl	40	32	**81** %	40	34	**84** %		40 - 140 %
	2-Bromonaphthalene	40	32	**81** %	40	33	**83** %		40 - 140 %
Extraction:	Chloro-octadecane	40	32	**80** %	40	34	**85** %		40 - 140 %
	ortho-Terphenyl	40	35	**87** %	40	31	**78** %		40 - 140 %

Fractionation Breakthrough Evaluation						QC Limits
91-20-3	Naphthalene	LCS	**0** %	LCSD	**0** %	5%
91-57-6	2-Methylnaphthalene	LCS	**0** %	LCSD	**0** %	5%

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004). Sample extraction performed by separatory funnel technique.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

The LCS and LCSD are prepared from separate source standards than those used for calibration.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP EPH**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-2359-F**	Extracted:	**11-05-10 18:00**
Matrix:	**Aqueous**	Analyzed (AL):	**11-07-10 00:01**
		Analyzed (AR):	**11-07-10 00:45**
		Analyst:	**KM**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	100
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		ug/L	100
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	5
91-57-6	2-Methylnaphthalene	BRL		ug/L	5
85-01-8	Phenanthrene	BRL		ug/L	5
83-32-9	Acenaphthene	BRL		ug/L	5
208-96-8	Acenaphthylene	BRL		ug/L	5
86-73-7	Fluorene	BRL		ug/L	5
120-12-7	Anthracene	BRL		ug/L	5
206-44-0	Fluoranthene	BRL		ug/L	5
129-00-0	Pyrene	BRL		ug/L	5
56-55-3	Benzo[a]anthracene	BRL		ug/L	5
218-01-9	Chrysene	BRL		ug/L	5
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	5
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	5
50-32-8	Benzo[a]pyrene	BRL		ug/L	5
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	5
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	5
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	5

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	40	32	**81** %	40 - 140 %
	2-Bromonaphthalene	40	35	**87** %	40 - 140 %
Extraction:	Chloro-octadecane	40	31	**77** %	40 - 140 %
	ortho-Terphenyl	40	31	**78** %	40 - 140 %

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).
Sample extraction performed by separatory funnel technique.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**MA DEP VPH**	Instrument ID:	**GC-10 HP 5890**	Instrument ID:	**GC-10 HP 5890**
QC Batch ID:	**VGA-4643-W**	Analyzed:	**11-03-10 10:48**	Analyzed:	**11-03-10 11:28**
Matrix:	**Aqueous**	Analyst:	**GY**	Analyst:	**GY**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
109-66-0	*n*- Pentane	50	42	**84** %	50	43	**86** %	**2** %	70 - 130 %	25%
107-83-5	2-Methylpentane	50	45	**90** %	50	47	**94** %	**4** %	70 - 130 %	25%
540-84-1	2,2,4-Trimethylpentane	50	51	**101** %	50	52	**105** %	**4** %	70 - 130 %	25%
n/a	Aliphatic Group 1	150	140	**93** %	150	140	**93** %	**0** %	70 - 130 %	25%
111-84-2	*n*- Nonane	50	47	**93** %	50	49	**98** %	**5** %	70 - 130 %	25%
124-18-5	*n*- Decane	50	45	**90** %	50	46	**93** %	**3** %	70 - 130 %	25%
1678-93-9	*n*- Butylcyclohexane	50	48	**95** %	50	49	**98** %	**3** %	70 - 130 %	25%
n/a	Aliphatic Group 2	150	140	**93** %	150	140	**93** %	**0** %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether	50	49	**98** %	50	49	**98** %	**0** %	70 - 130 %	25%
71-43-2	Benzene	50	48	**96** %	50	50	**99** %	**3** %	70 - 130 %	25%
108-88-3	Toluene	50	49	**99** %	50	51	**101** %	**3** %	70 - 130 %	25%
100-41-4	Ethylbenzene	50	50	**100** %	50	51	**103** %	**3** %	70 - 130 %	25%
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene	100	100	**100** %	100	100	**100** %	**0** %	70 - 130 %	25%
95-47-6	*ortho*- Xylene	50	50	**100** %	50	51	**102** %	**2** %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	50	50	**101** %	50	51	**103** %	**2** %	70 - 130 %	25%
91-20-3	Naphthalene	50	47	**94** %	50	47	**93** %	**1** %	70 - 130 %	25%
n/a	Aromatic Group	450	440	**98** %	450	450	**100** %	**2** %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
2,5-Dibromotoluene (PID)	50	52	**104** %	50	49	**98** %		70 - 130 %
2,5-Dibromotoluene (FID)	50	52	**104** %	50	48	**97** %		70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP VPH**	Instrument ID:	**GC-10 Agilent 6890**
QC Batch ID:	**VGA-4643-W**	Analyzed:	**11-03-10 12:08**
Matrix:	**Aqueous**	Analyst:	**GY**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	51	**102** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	51	**101** %	70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**MA DEP VPH**	Instrument ID:	**GC-10 HP 5890**	Instrument ID:	**GC-10 HP 5890**
QC Batch ID:	**VGA-4644-W**	Analyzed:	**11-04-10 10:37**	Analyzed:	**11-04-10 11:16**
Matrix:	**Aqueous**	Analyst:	**GY**	Analyst:	**GY**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
109-66-0	*n*- Pentane	50	41	**82** %	50	44	**88** %	**6** %	70 - 130 %	25%
107-83-5	2-Methylpentane	50	47	**94** %	50	49	**99** %	**5** %	70 - 130 %	25%
540-84-1	2,2,4-Trimethylpentane	50	52	**105** %	50	54	**109** %	**4** %	70 - 130 %	25%
n/a	Aliphatic Group 1	150	140	**93** %	150	150	**100** %	**7** %	70 - 130 %	25%
111-84-2	*n*- Nonane	50	50	**101** %	50	52	**103** %	**3** %	70 - 130 %	25%
124-18-5	*n*- Decane	50	47	**93** %	50	50	**99** %	**6** %	70 - 130 %	25%
1678-93-9	*n*- Butylcyclohexane	50	50	**101** %	50	52	**104** %	**3** %	70 - 130 %	25%
n/a	Aliphatic Group 2	150	150	**100** %	150	150	**100** %	**0** %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether	50	50	**99** %	50	50	**101** %	**1** %	70 - 130 %	25%
71-43-2	Benzene	50	48	**97** %	50	50	**100** %	**3** %	70 - 130 %	25%
108-88-3	Toluene	50	49	**99** %	50	51	**102** %	**3** %	70 - 130 %	25%
100-41-4	Ethylbenzene	50	50	**100** %	50	52	**103** %	**3** %	70 - 130 %	25%
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene	100	100	**100** %	100	100	**100** %	**0** %	70 - 130 %	25%
95-47-6	*ortho*- Xylene	50	49	**98** %	50	51	**103** %	**5** %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	50	50	**101** %	50	52	**103** %	**2** %	70 - 130 %	25%
91-20-3	Naphthalene	50	49	**98** %	50	48	**97** %	**1** %	70 - 130 %	25%
n/a	Aromatic Group	450	450	**100** %	450	450	**100** %	**0** %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
2,5-Dibromotoluene (PID)	50	53	**106** %	50	52	**104** %		70 - 130 %
2,5-Dibromotoluene (FID)	50	52	**104** %	50	52	**103** %		70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP VPH**	Instrument ID:	**GC-10 Agilent 6890**
QC Batch ID:	**VGA-4644-W**	Analyzed:	**11-04-10 11:56**
Matrix:	**Aqueous**	Analyst:	**GY**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	48	**96** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	48	**95** %	70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

Category: **Metals**
Matrix: **Aqueous**
Units: **mg/L**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 6010B	MB-4227-WL	EPA 3010A	11-02-10 00:00	11-02-10 18:06	ICP-1 PE 3000	JK
LCS	EPA 7470A	MP-2331-WL	EPA 7470A	11-04-10 00:00	11-04-10 00:00	CVAA-1 PE FIMS	LS
LCSD	EPA 6010B	MB-4227-WL	EPA 3010A	11-02-10 00:00	11-02-10 18:12	ICP-1 PE 3000	JK
LCSD	EPA 7470A	MP-2331-WL	EPA 7470A	11-04-10 00:00	11-04-10 00:00	CVAA-1 PE FIMS	LS

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-38-2	Arsenic	5.0	5.1	**103%**	5.0	5.2	**104%**	**0 %**	80-120 %	20 %	EPA 6010B
7440-39-3	Barium	5.0	4.8	**95%**	5.0	4.9	**98%**	**2 %**	80-120 %	20 %	EPA 6010B
7440-43-9	Cadmium	1.0	1.0	**102%**	1.0	1.1	**105%**	**1 %**	80-120 %	20 %	EPA 6010B
7440-47-3	Chromium	1.0	1.0	**101%**	1.0	1.0	**103%**	**1 %**	80-120 %	20 %	EPA 6010B
7439-92-1	Lead	5.0	5.3	**106%**	5.0	5.4	**109%**	**1 %**	80-120 %	20 %	EPA 6010B
7439-97-6	Mercury	0.0010	0.0011	**105%**	0.0010	0.0011	**110%**	**2 %**	80-120 %	20 %	EPA 7470A
7782-49-2	Selenium	5.0	5.0	**99%**	5.0	5.1	**101%**	**1 %**	80-120 %	20 %	EPA 6010B
7440-22-4	Silver	1.0	1.0	**102%**	1.0	1.0	**104%**	**1 %**	80-120 %	20 %	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category: **Metals**
Matrix: **Aqueous**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B	MB-4227-WB	EPA 3010A	11-02-10 00:00	50 mL	ICP-1 PE 3000	JK
EPA 7470A	MP-2331-WB	EPA 7470A	11-04-10 00:00	25 mL	CVAA-1 PE FIMS	LS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic	BRL		mg/L	0.01	1	11-02-10 18:03	EPA 6010B
7440-39-3	Barium	BRL		mg/L	0.05	1	11-02-10 18:03	EPA 6010B
7440-43-9	Cadmium	BRL		mg/L	0.004	1	11-02-10 18:03	EPA 6010B
7440-47-3	Chromium	BRL		mg/L	0.01	1	11-02-10 18:03	EPA 6010B
7439-92-1	Lead	BRL		mg/L	0.005	1	11-02-10 18:03	EPA 6010B
7439-97-6	Mercury	BRL		mg/L	0.0002	1	11-04-10 00:00	EPA 7470A
7782-49-2	Selenium	BRL		mg/L	0.05	1	11-02-10 18:03	EPA 6010B
7440-22-4	Silver	BRL		mg/L	0.007	1	11-02-10 18:02	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1170-W**	Analyzed:	**11-04-10 05:53**	Analyzed:	**11-04-10 06:16**
Matrix:	**Aqueous**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	8.6	**86** %	10	8.3	**83** %	**3** %	70 - 130 %	20%
74-87-3	Chloromethane	10	8.9	**89** %	10	9.1	**91** %	**2** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	10	8.4	**84** %	10	8.1	**81** %	**4** %	70 - 130 %	20%
74-83-9	Bromomethane	10	10	**103** %	10	9.9	**99** %	**4** %	70 - 130 %	20%
75-00-3	Chloroethane	10	9.1	**91** %	10	8.9	**89** %	**3** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	10	8.6	**86** %	10	8.1	**81** %	**5** %	70 - 130 %	20%
60-29-7	Diethyl Ether	20	19	**93** %	20	19	**95** %	**2** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	10	9.1	**91** %	10	9.1	**91** %	**1** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	22	**108** %	20	21	**105** %	**3** %	70 - 130 %	20%
67-64-1	Acetone	20	21	**103** %	20	22	**108** %	**5** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	20	18	**92** %	20	18	**90** %	**2** %	70 - 130 %	20%
75-09-2	Methylene Chloride	10	10	**105** %	10	9.9	**99** %	**6** %	70 - 130 %	20%
107-13-1	Acrylonitrile	10	12	**124** %	10	12	**121** %	**2** %	70 - 130 %	20%
156-60-5	*trans*- 1,2-Dichloroethene	10	9.8	**98** %	10	9.7	**97** %	**2** %	70 - 130 %	20%
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	10	9.9	**99** %	10	10	**101** %	**1** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	10	9.4	**94** %	10	9.3	**93** %	**1** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	10	9.0	**90** %	10	9.1	**91** %	**1** %	70 - 130 %	20%
156-59-2	*cis*- 1,2-Dichloroethene	10	10	**105** %	10	10	**103** %	**2** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	20	19	**93** %	20	19	**96** %	**4** %	70 - 130 %	20%
74-97-5	Bromochloromethane	10	12	**115** %	10	11	**114** %	**1** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	20	22	**108** %	20	21	**103** %	**5** %	70 - 130 %	20%
67-66-3	Chloroform	10	9.6	**96** %	10	9.5	**95** %	**2** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	10	8.9	**89** %	10	8.8	**88** %	**1** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	10	8.5	**85** %	10	8.2	**82** %	**3** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	10	8.4	**84** %	10	8.3	**83** %	**1** %	70 - 130 %	20%
71-43-2	Benzene	10	9.7	**97** %	10	9.5	**95** %	**3** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	10	8.7	**87** %	10	8.5	**85** %	**3** %	70 - 130 %	20%
79-01-6	Trichloroethene	10	9.2	**92** %	10	8.9	**89** %	**3** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	10	9.5	**95** %	10	9.4	**94** %	**1** %	70 - 130 %	20%
74-95-3	Dibromomethane	10	9.7	**97** %	10	9.7	**97** %	**0** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	10	9.4	**94** %	10	9.3	**93** %	**1** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	200	180	**92** %	200	190	**95** %	**3** %	70 - 130 %	20%
10061-01-5	*cis*- 1,3-Dichloropropene	10	8.4	**84** %	10	8.2	**82** %	**3** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	21	**104** %	20	20	**102** %	**2** %	70 - 130 %	20%
108-88-3	Toluene	10	9.7	**97** %	10	9.5	**95** %	**2** %	70 - 130 %	20%
10061-02-6	*trans*- 1,3-Dichloropropene	10	9.4	**94** %	10	9.2	**92** %	**2** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	10	11	**115** %	10	12	**116** %	**1** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	10	13	**129** %	10	13	**127** %	**2** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	10	11	**114** %	10	11	**113** %	**2** %	70 - 130 %	20%
591-78-6	2-Hexanone	20	24	**122** %	20	24	**121** %	**1** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	10	11	**105** %	10	10	**103** %	**2** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	10	12	**123** %	10	12	**122** %	**1** %	70 - 130 %	20%
108-90-7	Chlorobenzene	10	12	**115** %	10	11	**113** %	**2** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	10	13	**129** %	10	13	**128** %	**1** %	70 - 130 %	20%
100-41-4	Ethylbenzene	10	11	**112** %	10	11	**111** %	**1** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	20	23	**115** %	20	23	**116** %	**0** %	70 - 130 %	20%
95-47-6	*ortho*- Xylene	10	12	**118** %	10	12	**118** %	**0** %	70 - 130 %	20%
100-42-5	Styrene	10	11	**106** %	10	10	**102** %	**4** %	70 - 130 %	20%
75-25-2	Bromoform	10	11	**111** %	10	11	**108** %	**3** %	70 - 130 %	20%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1170-W**	Analyzed:	**11-04-10 05:53**	Analyzed:	**11-04-10 06:16**
Matrix:	**Aqueous**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
98-82-8	Isopropylbenzene	10	7.7	**77** %	10	7.6	**76** %	**2** %	70 - 130 %	20%
108-86-1	Bromobenzene	10	10	**103** %	10	10	**104** %	**1** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	10	9.5	**95** %	10	9.4	**94** %	**1** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	10	9.7	**97** %	10	9.6	**96** %	**1** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	260	**128** %	200	240	**122** %	**5** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	10	8.7	**87** %	10	8.5	**85** %	**2** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	10	9.5	**95** %	10	9.2	**92** %	**4** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	10	9.1	**91** %	10	9.0	**90** %	**2** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	10	9.1	**91** %	10	9.1	**91** %	**0** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	10	8.8	**88** %	10	8.4	**84** %	**5** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	10	9.6	**96** %	10	9.3	**93** %	**3** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	10	8.8	**88** %	10	8.6	**86** %	**2** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	10	10	**100** %	10	9.8	**98** %	**3** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	10	8.6	**86** %	10	8.2	**82** %	**4** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	10	9.8	**98** %	10	9.5	**95** %	**3** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	10	9.7	**97** %	10	9.6	**96** %	**1** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	10	8.9	**89** %	10	8.7	**87** %	**3** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	10	8.4	**84** %	10	8.0	**80** %	**6** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	10	11	**110** %	10	11	**108** %	**2** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	10	10	**103** %	10	10	**104** %	**1** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	10	11	**106** %	10	10	**100** %	**6** %	70 - 130 %	20%
91-20-3	Naphthalene	10	10	**100** %	10	10	**100** %	**0** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	10	11	**109** %	10	11	**108** %	**1** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	180	**88** %	200	180	**88** %	**0** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.1	**91** %	10	9.1	**91** %	**1** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.7	**87** %	10	8.8	**88** %	**1** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	8.0	**80** %	10	8.1	**81** %	**1** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	**108** %	10	11	**109** %		70 - 130 %
1,2-Dichloroethane-d_4	10	11	**109** %	10	12	**117** %		70 - 130 %
Toluene-d_8	10	10	**102** %	10	10	**101** %		70 - 130 %
4-Bromofluorobenzene	10	10	**96** %	10	9	**95** %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996). Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1170-W**	Analyzed:	**11-04-10 06:41**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1170-W**	Analyzed:	**11-04-10 06:41**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**107** %	70 - 130 %
1,2-Dichloroethane-d_4	10	12	**118** %	70 - 130 %
Toluene-d_8	10	10	**103** %	70 - 130 %
4-Bromofluorobenzene	10	9	**92** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1171-W**	Analyzed:	**11-05-10 11:06**	Analyzed:	**11-05-10 11:32**
Matrix:	**Aqueous**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	7.0	**70** %	10	6.9	**69** % q	**1** %	70 - 130 %	20%
74-87-3	Chloromethane	10	8.7	**87** %	10	8.6	**86** %	**1** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	10	8.1	**81** %	10	8.3	**83** %	**2** %	70 - 130 %	20%
74-83-9	Bromomethane	10	10	**105** %	10	11	**106** %	**1** %	70 - 130 %	20%
75-00-3	Chloroethane	10	9.5	**95** %	10	9.5	**95** %	**0** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	10	8.4	**84** %	10	8.4	**84** %	**1** %	70 - 130 %	20%
60-29-7	Diethyl Ether	20	20	**101** %	20	20	**101** %	**0** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	10	10	**101** %	10	10	**100** %	**2** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	25	**127** %	20	26	**129** %	**2** %	70 - 130 %	20%
67-64-1	Acetone	20	25	**124** %	20	24	**119** %	**4** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	20	20	**102** %	20	20	**102** %	**1** %	70 - 130 %	20%
75-09-2	Methylene Chloride	10	14	**144** % q	10	15	**151** % q	**4** %	70 - 130 %	20%
107-13-1	Acrylonitrile	10	12	**118** %	10	12	**123** %	**4** %	70 - 130 %	20%
156-60-5	*trans*- 1,2-Dichloroethene	10	10	**103** %	10	10	**105** %	**2** %	70 - 130 %	20%
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	10	11	**105** %	10	11	**108** %	**2** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	10	9.4	**94** %	10	9.6	**96** %	**1** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	10	9.5	**95** %	10	9.4	**94** %	**1** %	70 - 130 %	20%
156-59-2	*cis*- 1,2-Dichloroethene	10	11	**106** %	10	11	**106** %	**1** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	20	20	**98** %	20	19	**96** %	**1** %	70 - 130 %	20%
74-97-5	Bromochloromethane	10	11	**115** %	10	11	**115** %	**0** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	20	22	**110** %	20	23	**115** %	**5** %	70 - 130 %	20%
67-66-3	Chloroform	10	9.5	**95** %	10	9.7	**97** %	**3** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	10	8.8	**88** %	10	9.1	**91** %	**3** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	10	8.5	**85** %	10	8.7	**87** %	**2** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	10	9.0	**90** %	10	9.1	**91** %	**1** %	70 - 130 %	20%
71-43-2	Benzene	10	9.9	**99** %	10	10	**100** %	**2** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	10	8.7	**87** %	10	8.8	**88** %	**1** %	70 - 130 %	20%
79-01-6	Trichloroethene	10	9.3	**93** %	10	9.2	**92** %	**1** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	10	9.6	**96** %	10	9.5	**95** %	**1** %	70 - 130 %	20%
74-95-3	Dibromomethane	10	9.8	**98** %	10	9.7	**97** %	**1** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	10	9.2	**92** %	10	9.3	**93** %	**1** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	200	200	**98** %	200	220	**111** %	**12** %	70 - 130 %	20%
10061-01-5	*cis*- 1,3-Dichloropropene	10	8.5	**85** %	10	8.5	**85** %	**0** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	21	**107** %	20	22	**110** %	**2** %	70 - 130 %	20%
108-88-3	Toluene	10	9.7	**97** %	10	9.7	**97** %	**0** %	70 - 130 %	20%
10061-02-6	*trans*- 1,3-Dichloropropene	10	8.6	**86** %	10	8.9	**89** %	**3** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	10	10	**103** %	10	11	**110** %	**7** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	10	12	**125** %	10	13	**128** %	**2** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	10	10	**104** %	10	11	**105** %	**1** %	70 - 130 %	20%
591-78-6	2-Hexanone	20	23	**116** %	20	24	**119** %	**2** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	10	9.0	**90** %	10	9.4	**94** %	**5** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	10	11	**110** %	10	11	**115** %	**4** %	70 - 130 %	20%
108-90-7	Chlorobenzene	10	11	**106** %	10	11	**110** %	**4** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	10	12	**116** %	10	12	**120** %	**4** %	70 - 130 %	20%
100-41-4	Ethylbenzene	10	10	**103** %	10	11	**106** %	**3** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	20	22	**108** %	20	22	**109** %	**1** %	70 - 130 %	20%
95-47-6	*ortho*- Xylene	10	11	**107** %	10	11	**111** %	**4** %	70 - 130 %	20%
100-42-5	Styrene	10	9.4	**94** %	10	9.8	**98** %	**4** %	70 - 130 %	20%
75-25-2	Bromoform	10	9.4	**94** %	10	9.8	**98** %	**4** %	70 - 130 %	20%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1171-W**	Analyzed:	**11-05-10 11:06**	Analyzed:	**11-05-10 11:32**
Matrix:	**Aqueous**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
98-82-8	Isopropylbenzene	10	7.7	**77** %	10	7.9	**79** %	**3** %	70 - 130 %	20%
108-86-1	Bromobenzene	10	10	**102** %	10	11	**106** %	**4** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.8	**88** %	10	9.2	**92** %	**5** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	10	9.2	**92** %	10	9.4	**94** %	**3** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	240	**122** %	200	250	**127** %	**4** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	10	8.7	**87** %	10	8.9	**89** %	**3** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	10	9.3	**93** %	10	9.3	**93** %	**1** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	10	9.1	**91** %	10	9.3	**93** %	**2** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	10	9.0	**90** %	10	9.3	**93** %	**3** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	10	8.8	**88** %	10	9.0	**90** %	**3** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	10	9.4	**94** %	10	9.7	**97** %	**3** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	10	8.8	**88** %	10	8.9	**89** %	**1** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	10	9.7	**97** %	10	10	**100** %	**3** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	10	8.4	**84** %	10	8.7	**87** %	**3** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	10	9.5	**95** %	10	9.8	**98** %	**3** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	10	9.4	**94** %	10	9.8	**98** %	**4** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	10	8.8	**88** %	10	9.0	**90** %	**2** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	10	7.5	**75** %	10	8.0	**80** %	**6** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	10	12	**117** %	10	12	**123** %	**5** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	10	11	**105** %	10	11	**110** %	**4** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	10	11	**108** %	10	11	**111** %	**3** %	70 - 130 %	20%
91-20-3	Naphthalene	10	9.5	**95** %	10	10	**100** %	**6** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	10	11	**106** %	10	11	**110** %	**4** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	180	**90** %	200	190	**93** %	**3** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.7	**87** %	10	8.9	**89** %	**2** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.4	**84** %	10	8.5	**85** %	**2** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	7.8	**78** %	10	8.0	**80** %	**2** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	10	**95** %	10	10	**99** %		70 - 130 %
1,2-Dichloroethane-d_4	10	10	**100** %	10	10	**101** %		70 - 130 %
Toluene-d_8	10	9	**91** %	10	9	**92** %		70 - 130 %
4-Bromofluorobenzene	10	8	**81** %	10	9	**85** %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1171-W**	Analyzed:	**11-05-10 11:55**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1171-W**	Analyzed:	**11-05-10 11:55**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**98** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**108** %	70 - 130 %
Toluene-d_8	10	9	**93** %	70 - 130 %
4-Bromofluorobenzene	10	9	**86** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

Groundwater Analytical, Inc.
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Buzzards Bay, MA 02532

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FAX (508) 759-4475
www.groundwateranalytical.com

November 18, 2010

Mr. Sean Healey
Weston & Sampson, Inc.
5 Centennial Drive
Peabody, MA 01960

LABORATORY REPORT

Project: **New Bedford - Dawson**
Lab ID: **137667**
Received: **11-04-10**

Dear Sean:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**New Bedford - Dawson**	Delivery:	**GWA Courier**	Temperature:	**2.2ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**137667**	Lab Receipt:	**11-04-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137667-1	MW-1		Aqueous	11/3/10 12:45	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1305383	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305359	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305340	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137667-2	MW-4		Aqueous	11/3/10 13:50	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1305362	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305339	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1299582	40 mL VOA Vial	n/a	n/a	HCL	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137667-3	MW-1		Aqueous	11/3/10 12:45	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1305361	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305360	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305358	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
137667-4	MW-4		Aqueous	11/3/10 13:50	MA DEP VPH with Targets				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1305395	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305341	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		
C1305338	40 mL VOA Vial	Proline	BX37619	HCL	R-5915D	10-18-10	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**New Bedford - Dawson**	Lab ID:	**137667**
Client:	**Weston & Sampson, Inc.**	Received:	**11-04-10 17:20**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8260B: 137667-1,-2
MA DEP VPH: 137667-3,-4

Sample Matrices: Groundwater/Surface (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A (X)	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	Yes

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	No
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:		Position:	Operations Manager
Printed Name:	Eric H. Jensen	Date:	11-18-10

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-1**	Matrix:	**Aqueous**
Project:	**New Bedford - Dawson**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137667-1**	QC Batch ID:	**VM10-1184-W**
Sampled:	**11-03-10 12:45**	Instrument ID:	**MS-10 HP 6890**
Received:	**11-04-10 17:20**	Sample Volume:	**5 mL**
Analyzed:	**11-16-10 12:30**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	25
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	**0.8**		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-1**	Matrix:	**Aqueous**
Project:	**New Bedford - Dawson**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137667-1**	QC Batch ID:	**VM10-1184-W**
Sampled:	**11-03-10 12:45**	Instrument ID:	**MS-10 HP 6890**
Received:	**11-04-10 17:20**	Sample Volume:	**5 mL**
Analyzed:	**11-16-10 12:30**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9	**95** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**106** %	70 - 130 %
Toluene-d_8	10	10	**97** %	70 - 130 %
4-Bromofluorobenzene	10	9	**88** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**MW-4**	Matrix:	**Aqueous**
Project:	**New Bedford - Dawson**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137667-2**	QC Batch ID:	**VM10-1184-W**
Sampled:	**11-03-10 13:50**	Instrument ID:	**MS-10 HP 6890**
Received:	**11-04-10 17:20**	Sample Volume:	**5 mL**
Analyzed:	**11-16-10 12:53**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	25
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**MW-4**	Matrix:	**Aqueous**
Project:	**New Bedford - Dawson**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137667-2**	QC Batch ID:	**VM10-1184-W**
Sampled:	**11-03-10 13:50**	Instrument ID:	**MS-10 HP 6890**
Received:	**11-04-10 17:20**	Sample Volume:	**5 mL**
Analyzed:	**11-16-10 12:53**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans* -1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n* -Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec* -Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n* -Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert* -Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert* -Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**97** %	70 - 130 %
1,2-Dichloroethane-d_4	10	10	**102** %	70 - 130 %
Toluene-d_8	10	10	**95** %	70 - 130 %
4-Bromofluorobenzene	10	9	**90** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-1**	Matrix:	**Aqueous**
Project:	**New Bedford - Dawson**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137667-03**	QC Batch ID:	**VGA-4648-W**
Sampled:	**11-03-10 12:45**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**11-04-10 17:20**	Sample Volume:	**5 mL**
Analyzed:	**11-10-10 18:58**	Dilution Factor:	**1**
Analyst:	**TRA**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		ug/L	5
71-43-2	Benzene ¤	BRL		ug/L	1
108-88-3	Toluene ¤	BRL		ug/L	5
100-41-4	Ethylbenzene ‡	BRL		ug/L	5
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		ug/L	5
95-47-6	*ortho*- Xylene ‡	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	49	**98** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	48	**96** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed?	Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved?	Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1?	No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID:	**MW-4**	Matrix:	**Aqueous**
Project:	**New Bedford - Dawson**	Container:	**40 mL VOA Vial**
Client:	**Weston & Sampson, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**137667-04**	QC Batch ID:	**VGA-4648-W**
Sampled:	**11-03-10 13:50**	Instrument ID:	**GC-10 Agilent 6890**
Received:	**11-04-10 17:20**	Sample Volume:	**5 mL**
Analyzed:	**11-10-10 19:38**	Dilution Factor:	**1**
Analyst:	**TRA**		

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		ug/L	5
71-43-2	Benzene ¤	BRL		ug/L	1
108-88-3	Toluene ¤	BRL		ug/L	5
100-41-4	Ethylbenzene ‡	BRL		ug/L	5
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		ug/L	5
95-47-6	*ortho*- Xylene ‡	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	49	**98** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	50	**99** %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**New Bedford - Dawson**	Lab ID:	**137667**
Client:	**Weston & Sampson, Inc.**	Received:	**11-04-10 17:20**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1 . No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1 . EPA 8260B Note: Samples 137667-1 and -2. Relative percent deviations for tert-Butyl Alcohol, 1,1,2-Trichlorotrifluoroethane, tert-Amyl Methyl Ether, 1,2-Dichloroethane, cis-1,3-Dichloropropane, Tetrachloroethene, Isopropylbenzene and 1,2-Dibromo-3-chloropropane were above the recommended limit in the CCV.

2 . EPA 8260B Note: Sample 137667-1 and -2. Response factor for Acetone was below the recommended limit in the CCV/LCS.

3 . EPA 8260B Non-conformance: Laboratory control sample (LCS) analyte 1,1,2-Trichlorotrifluoroethane was above recommended recovery limits for QC batch VM10-1184-W.

GROUNDWATER ANALYTICAL

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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: New Bedford - Dawson
Firm: Weston & Sampson
Project Number:
Address: 5 Centennial Drive Peabody
Sampler Name: K. Novello
City / State / Zip:: Peabody, MA 01960
Project Manager: S. Healey
Telephone: 532 1900

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

☑ 10 Business Days
☐ 5 Business Days
☐ RUSH (RAN- _____)
(Rush requires Rush Authorization Number)
☐ Please Email to: _____
☐ Please FAX to: _____

BILLING

☐ Purchase Order No.: _____
☐ Third Party Billing: _____
☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ TIC Search
SDWA: ☐ 524.2
NPDES: ☐ 624
RCRA/21E: ☐ 8260B TCL-MTBE

Volatiles: ☑ 8260B; ☐ 8260B Aromatics; ☐ 8260B Halocarbons; ☐ 8021B Vermont
Semivolatiles: ☐ Acid Only; ☐ B/N Only; ☐ TIC Search; ☐ 625.2; ☐ 625; ☐ 8270C PAHs only; ☐ 8270C
Pest/Herb/PCBs Extractable: ☐ 508; ☐ 608 Pesticides; ☐ 608 PCBs; ☐ 8081A Pesticides; ☐ 8082 PCBs
Pest/Herb/PCBs Vol.: ☐ 531.1; ☐ 515.3; ☐ 504.1 EDB/DBCP; ☐ 615; ☐ 8151A Herbicides; ☐ 8011 EDB/DBCP
Metals: Specify For Water Samples ☐ Total ☐ Dissolved; ☐ Lead and Copper; ☐ 13 Priority Pollutant; ☐ 8 RCRA; ☐ 5 RCRA; ☐ 14 MA DEP Metals; ☐ 23 TAL; ☐ Specify:
Petroleum Hydrocarbon Ext. TPH: ☐ Diesel Range Organics (DRO); ☐ ME DRO; ☐ CT ETPH; ☐ MA DEP EPH w/all targets; ☐ EPH Carbon Ranges only; ☐ EPH w/4 PAHs; ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00-Mod.)
Petroleum Hydrocarbon Vol. TPH: ☐ TPH by GC/FID (8015B Mod) Quantitative Only; ☐ Gasoline Range Organics (GRO); ☐ ME GRO; ☐ MA DEP VPH w/all targets; ☐ VPH Carbon ranges only
Haz. Waste: ☐ TCLP; ☐ SPLP; ☐ 8 Metals; ☐ Pb only; ☐ VOA; ☐ Sem VOA; ☐ Pesticides; ☐ Herbicides; ☐ Corrosivity (as pH); ☐ Reactivity; ☐ Ignitability; ☐ Conductivity; ☐ Paint Filter; ☐ MA Basic Disposal: 8260/8270, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity; ☐ MA Extended Disposal: 8260/8270, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity
General Chemistry: ☐ Nitrate; ☐ Nitrite; ☐ Chlorine; ☐ Fluoride; ☐ Sulfate; ☐ Dissolved Phosphorus; ☐ Ammonia; ☐ TKN; ☐ Total Phosphorus; ☐ Total N (as N02/N03/TKN); ☐ Oil & Grease; ☐ COD; ☐ TOC; ☐ BOD; ☐ CBOD; ☐ TDS; ☐ TSS; ☐ TS; ☐ Alkalinity; ☐ Total Cyanide; ☐ Physiologically Available Cyanide; ☐ Available Cyanide
Other: ☐ pH; ☐ Dissolved Oxygen; ☐ Turbidity; ☐ Total Coliform; ☐ Fecal Coliform; ☐ HPC; ☐ MA DEP Asbestos in Soil; ☐ Asbestos (PLM)

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s) NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: HCl	HNO3	H2SO4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
1/3/10	12:45	MW-1	✓									✓										✓									✓
1/3/10	13:50	MW-4	✓									✓										✓									✓

REMARKS / SPECIAL INSTRUCTIONS

☑ YES ☐ NO MCP Data Certification required.
☐ YES ☐ NO MCP Drinking Water Sample Included.
(Volatile analyses require duplicate collection and Trip Blanks).
☐ Analyze Duplicates and Trips Blanks only if positive results.
☐ YES ☐ NO CT RCP Data Certification required.
Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☑ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
☐ Sample Duplicate
☐ Matrix Spike
☐ Matrix Spike Duplicate

Selection of QC Sample
☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date / Time	Received by:	Receipt Temperature:
[signature]	1/4/10 12:10	[signature]	☐ Ice ☐ Refrigerated 2-6°C Recommended 2.2
Relinquished by: [signature]	Date / Time 1/4/10 1720	Received by: [signature]	Container Count:
Relinquished by:	Date / Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☑ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**MA DEP VPH**	Instrument ID:	**GC-10 HP 5890**	Instrument ID:	**GC-10 HP 5890**
QC Batch ID:	**VGA-4648-W**	Analyzed:	**11-10-10 12:34**	Analyzed:	**11-10-10 13:13**
Matrix:	**Aqueous**	Analyst:	**TRA**	Analyst:	**TRA**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
109-66-0	*n*- Pentane	50	39	**78** %	50	41	**82** %	**5** %	70 - 130 %	25%
107-83-5	2-Methylpentane	50	46	**92** %	50	48	**96** %	**5** %	70 - 130 %	25%
540-84-1	2,2,4-Trimethylpentane	50	52	**104** %	50	53	**107** %	**3** %	70 - 130 %	25%
n/a	Aliphatic Group 1	150	140	**93** %	150	140	**93** %	**0** %	70 - 130 %	25%
111-84-2	*n*- Nonane	50	49	**97** %	50	50	**100** %	**3** %	70 - 130 %	25%
124-18-5	*n*- Decane	50	44	**88** %	50	46	**91** %	**3** %	70 - 130 %	25%
1678-93-9	*n*- Butylcyclohexane	50	50	**99** %	50	52	**103** %	**4** %	70 - 130 %	25%
n/a	Aliphatic Group 2	150	140	**93** %	150	150	**100** %	**7** %	70 - 130 %	25%
1634-04-4	Methyl *tert*-butyl Ether	50	49	**98** %	50	50	**99** %	**1** %	70 - 130 %	25%
71-43-2	Benzene	50	48	**95** %	50	49	**99** %	**3** %	70 - 130 %	25%
108-88-3	Toluene	50	49	**98** %	50	51	**101** %	**4** %	70 - 130 %	25%
100-41-4	Ethylbenzene	50	49	**99** %	50	52	**103** %	**4** %	70 - 130 %	25%
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene	100	99	**99** %	100	100	**100** %	**1** %	70 - 130 %	25%
95-47-6	*ortho*- Xylene	50	49	**97** %	50	51	**102** %	**5** %	70 - 130 %	25%
95-63-6	1,2,4-Trimethylbenzene	50	50	**99** %	50	51	**103** %	**3** %	70 - 130 %	25%
91-20-3	Naphthalene	50	46	**93** %	50	47	**94** %	**1** %	70 - 130 %	25%
n/a	Aromatic Group	450	440	**98** %	450	450	**100** %	**2** %	70 - 130 %	25%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
2,5-Dibromotoluene (PID)	50	49	**98** %	50	49	**98** %		70 - 130 %
2,5-Dibromotoluene (FID)	50	49	**97** %	50	49	**98** %		70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP VPH**	Instrument ID:	**GC-10 Agilent 6890**
QC Batch ID:	**VGA-4648-W**	Analyzed:	**11-10-10 13:53**
Matrix:	**Aqueous**	Analyst:	**TRA**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl *tert*-butyl Ether ¤	BRL		ug/L	5
71-43-2	Benzene ¤	BRL		ug/L	1
108-88-3	Toluene ¤	BRL		ug/L	5
100-41-4	Ethylbenzene ‡	BRL		ug/L	5
108-38-3 and 106-42-3	*meta*- Xylene and *para*-Xylene ‡	BRL		ug/L	5
95-47-6	*ortho*- Xylene ‡	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	48	**96** %	70 - 130 %
2,5-Dibromotoluene (FID)	50	48	**96** %	70 - 130 %

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

¤ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1184-W**	Analyzed:	**11-16-10 06:13**	Analyzed:	**11-16-10 06:36**
Matrix:	**Aqueous**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
75-71-8	Dichlorodifluoromethane	10	9.7	**97** %	10	10	**105** %	**8** %	70 - 130 %	20%
74-87-3	Chloromethane	10	9.0	**90** %	10	9.8	**98** %	**9** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	10	9.1	**91** %	10	10	**101** %	**10** %	70 - 130 %	20%
74-83-9	Bromomethane	10	10	**104** %	10	11	**115** %	**10** %	70 - 130 %	20%
75-00-3	Chloroethane	10	9.8	**98** %	10	11	**108** %	**10** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	10	10	**104** %	10	11	**113** %	**8** %	70 - 130 %	20%
60-29-7	Diethyl Ether	20	16	**81** %	20	18	**91** %	**12** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	10	11	**106** %	10	12	**116** %	**10** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	25	**126** %	20	27	**137** % q	**8** %	70 - 130 %	20%
67-64-1	Acetone	20	17	**83** %	20	18	**89** %	**7** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	20	17	**84** %	20	18	**92** %	**9** %	70 - 130 %	20%
75-09-2	Methylene Chloride	10	8.5	**85** %	10	9.5	**95** %	**11** %	70 - 130 %	20%
107-13-1	Acrylonitrile	10	10	**105** %	10	12	**117** %	**12** %	70 - 130 %	20%
156-60-5	*trans*-1,2-Dichloroethene	10	10	**102** %	10	11	**113** %	**11** %	70 - 130 %	20%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	8.6	**86** %	10	9.7	**97** %	**12** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	10	9.2	**92** %	10	10	**101** %	**9** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	10	9.1	**91** %	10	10	**103** %	**12** %	70 - 130 %	20%
156-59-2	*cis*-1,2-Dichloroethene	10	9.7	**97** %	10	11	**109** %	**11** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	20	18	**89** %	20	19	**97** %	**9** %	70 - 130 %	20%
74-97-5	Bromochloromethane	10	10	**102** %	10	11	**114** %	**11** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	20	17	**86** %	20	19	**94** %	**9** %	70 - 130 %	20%
67-66-3	Chloroform	10	8.9	**89** %	10	9.9	**99** %	**11** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	10	9.2	**92** %	10	10	**102** %	**11** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	10	8.8	**88** %	10	9.8	**98** %	**11** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	10	9.5	**95** %	10	11	**107** %	**12** %	70 - 130 %	20%
71-43-2	Benzene	10	9.5	**95** %	10	10	**104** %	**9** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	10	7.7	**77** %	10	8.5	**85** %	**9** %	70 - 130 %	20%
79-01-6	Trichloroethene	10	9.4	**94** %	10	10	**102** %	**9** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	10	8.7	**87** %	10	9.7	**97** %	**11** %	70 - 130 %	20%
74-95-3	Dibromomethane	10	8.4	**84** %	10	9.7	**97** %	**14** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	10	8.1	**81** %	10	9.2	**92** %	**13** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	200	200	**98** %	200	230	**114** %	**14** %	70 - 130 %	20%
10061-01-5	*cis*-1,3-Dichloropropene	10	7.6	**76** %	10	8.3	**83** %	**9** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	18	**88** %	20	19	**96** %	**9** %	70 - 130 %	20%
108-88-3	Toluene	10	9.5	**95** %	10	10	**104** %	**9** %	70 - 130 %	20%
10061-02-6	*trans*-1,3-Dichloropropene	10	8.1	**81** %	10	8.4	**84** %	**5** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	10	10	**103** %	10	10	**103** %	**0** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	10	12	**123** %	10	13	**127** %	**3** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	10	10	**102** %	10	11	**105** %	**3** %	70 - 130 %	20%
591-78-6	2-Hexanone	20	20	**101** %	20	21	**103** %	**2** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	10	8.4	**84** %	10	8.7	**87** %	**3** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	10	11	**111** %	10	11	**112** %	**1** %	70 - 130 %	20%
108-90-7	Chlorobenzene	10	11	**107** %	10	11	**110** %	**2** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	10	11	**112** %	10	12	**119** %	**6** %	70 - 130 %	20%
100-41-4	Ethylbenzene	10	11	**110** %	10	11	**113** %	**3** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	22	**112** %	20	23	**114** %	**2** %	70 - 130 %	20%
95-47-6	*ortho*-Xylene	10	11	**111** %	10	11	**113** %	**2** %	70 - 130 %	20%
100-42-5	Styrene	10	9.5	**95** %	10	9.8	**98** %	**3** %	70 - 130 %	20%
75-25-2	Bromoform	10	8.5	**85** %	10	9.1	**91** %	**7** %	70 - 130 %	20%

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1184-W**	Analyzed:	**11-16-10 06:13**	Analyzed:	**11-16-10 06:36**
Matrix:	**Aqueous**	Analyst:	**LMG**	Analyst:	**LMG**
Units:	**ug/L**				

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
98-82-8	Isopropylbenzene	10	7.9	**79** %	10	8.8	**88** %	**11** %	70 - 130 %	20%
108-86-1	Bromobenzene	10	9.7	**97** %	10	11	**107** %	**10** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	10	8.4	**84** %	10	9.1	**91** %	**9** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	10	8.7	**87** %	10	9.5	**95** %	**8** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	190	**97** %	200	220	**108** %	**11** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	10	9.0	**90** %	10	10	**100** %	**11** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	10	9.0	**90** %	10	9.9	**99** %	**10** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	10	8.9	**89** %	10	10	**100** %	**12** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	10	8.8	**88** %	10	9.8	**98** %	**11** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	10	9.1	**91** %	10	10	**101** %	**11** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	10	9.1	**91** %	10	10	**103** %	**12** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	10	9.2	**92** %	10	10	**103** %	**11** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	10	9.1	**91** %	10	10	**101** %	**11** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	10	8.6	**86** %	10	9.6	**96** %	**11** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	10	8.9	**89** %	10	9.8	**98** %	**10** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	10	8.9	**89** %	10	9.8	**98** %	**10** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	10	9.1	**91** %	10	10	**102** %	**12** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	10	7.4	**74** %	10	7.4	**74** %	**1** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	10	9.7	**97** %	10	11	**111** %	**13** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	10	9.7	**97** %	10	11	**110** %	**13** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	10	11	**107** %	10	12	**123** %	**14** %	70 - 130 %	20%
91-20-3	Naphthalene	10	8.8	**88** %	10	10	**101** %	**14** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	10	9.9	**99** %	10	11	**113** %	**13** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	160	**78** %	200	170	**86** %	**10** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	10	8.9	**89** %	10	9.8	**98** %	**10** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.6	**86** %	10	9.5	**95** %	**10** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	7.9	**79** %	10	8.8	**88** %	**10** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	10	**102** %	10	10	**104** %		70 - 130 %
1,2-Dichloroethane-d_4	10	11	**106** %	10	11	**106** %		70 - 130 %
Toluene-d_8	10	10	**98** %	10	10	**98** %		70 - 130 %
4-Bromofluorobenzene	10	9	**89** %	10	9	**90** %		70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1184-W**	Analyzed:	**11-16-10 06:58**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	3
107-13-1	Acrylonitrile	BRL		ug/L	3
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.4
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.4
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.5
95-47-6	*ortho*- Xylene	BRL		ug/L	0.5
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1184-W**	Analyzed:	**11-16-10 06:58**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	**100** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**109** %	70 - 130 %
Toluene-d_8	10	10	**100** %	70 - 130 %
4-Bromofluorobenzene	10	9	**90** %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

Groundwater Analytical, Inc.
P.O.Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone: (508) 759-4441
FAX: (508) 759-4475

GROUNDWATER ANALYTICAL

e-mail

To:	Sean Healey	From:	e-mail reporting GWA
	Weston & Sampson -	Pages:	12
e-mail:	healeys@wseinc.com	Date:	12/13/2010 15:05:59
Re:	138245	CC:	

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply

● Comments:

Final Project Report for New Bedford Branfield, Brooks St, Lab ID 138245, Received 10-22-10

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Confidential

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

December 13, 2010

Mr. Sean Healey
Weston & Sampson, Inc.
5 Centennial Drive
Peabody, MA 01960

LABORATORY REPORT

Project: **New Bedford Branfield, Brooks St**
Lab ID: **138245**
Received: **10-22-10**

Dear Sean:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**New Bedford Branfield, Brooks St**	Delivery:	**Hand**	Temperature:	**2.0ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**138245**	Lab Receipt:	**10-22-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-1	WSTP1-A		Solid	10/21/10 9:45	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-2	WSTP2-B		Solid	10/21/10 10:00	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-3	WSTP3-A		Solid	10/21/10 10:15	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-4	WSTP4-A		Solid	10/21/10 10:30	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-5	WSTP6-A		Solid	10/21/10 10:40	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-6	WSTP7-A		Solid	10/21/10 10:45	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-7	WSTP8-A		Solid	10/21/10 10:50	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138245-8	WSTP10-A		Solid	10/21/10 11:00	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL
EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: westmontasblab@EMSL.com

Attn: **Eric Jensen**
Groundwater Analytical
228 Main St.
PO Box 1200
Buzzards Bay, MA 02532

Fax: Phone: (508) 759-4441
Project: **138245/NEW BEDFORD BRANFIELD, BROOKS ST**

Customer ID: GANL50
Customer PO:
Received: 12/07/10 12:10 PM
EMSL Order: 041028139

EMSL Proj:
Analysis Date: 12/8/2010

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
WSTP10-A *041028139-0001*		Brown Non-Fibrous Heterogeneous	58.0	None	42.3% Chrysotile

Initial report from 12/08/2010 09:24:42

Analyst(s)
Chris Dojlidko (1)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ

Test Report EPANOB-7.21.0 Printed: 12/8/2010 10:01:06 AM

THIS IS THE LAST PAGE OF THE REPORT.

GROUNDWATER ANALYTICAL

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: westmontasblab@EMSL.com

Attn: **Eric Jensen**
Groundwater Analytical
228 Main St.
PO Box 1200
Buzzards Bay, MA 02532

Fax: Phone: (508) 759-4441
Project: **138245 NEW BEDFORD BRANFIELD**

Customer ID: GANL50
Customer PO:
Received: 12/01/10 12:00 PM
EMSL Order: 041027671

EMSL Proj:
Analysis Date: 12/6/2010

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
WSTP1-A *041027671-0001*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
WSTP2-B *041027671-0002*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
WSTP3-A *041027671-0003*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
WSTP4-A *041027671-0004*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
WSTP6-A *041027671-0005*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
WSTP7-A *041027671-0006*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
WSTP8-A *041027671-0007*		Black Non-Fibrous Homogeneous	97.0	None	3.0% Chrysotile

Initial report from 12/06/2010 11:54:36

Analyst(s)
Christopher Gratz (7)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ

Test Report EPANOB-7.21.0 Printed: 12/6/2010 2:47:02 PM

THIS IS THE LAST PAGE OF THE REPORT.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**New Bedford Branfield, Brooks St**	Lab ID:	**138245**
Client:	**Weston & Sampson, Inc.**	Received:	**10-22-10 09:26**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1 . Samples 137256-3, -7, -9, -11, -13, -14 and -15 were reassigned laboratory numbers 138245-1 through -7 respectively and were analyzed by TEM due 12-08-10, per Sean Healey, 11-30-10.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1 . No method modifications, non-conformances or analytical issues were noted.

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: New Bedford Bonfield Brooks Street
Firm: Weston & Sampson
Project Number: TBD
Address: 5 Centennial Drive
Sampler Name: Sean Heavey
City / State / Zip: Peabody MA 01960
Project Manager: Sean Heavey
Telephone: 978 532 1900

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☒ RUSH (RAN-) (Rush requires Rush Authorization Number)
- ☐ Please Email to: heavys@wse.inc.com
- ☐ Please FAX to:

BILLING

- ☐ Purchase Order No.:
- ☐ Third Party Billing:
- ☐ GWA Quote:

ANALYSIS REQUEST

Sampling Date	Time	SAMPLE IDENTIFICATION	Matrix: Groundwater	Drinking Water	Wastewater	Soil	Type: Composite	Grab	Container(s): Number	40mL VOA Vial	500mL/1L oz Glass	125mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	2L/64 oz Plastic	Other Specify: Flash Pt Aq	Preservation: HCl	HNO3	H2SO4	NaOH	Methanol	Sodium Bisulfate	DI	Filtered: Yes	No	LABORATORY NUMBER (Lab Use Only)	Volatiles	Semivolatiles	Pest/Herb/PCBs Extractable	Pest/Herb/PCBs Vol.	Metals	Petroleum Hydrocarbon Ext. TPH	Petroleum Hydrocarbon Vol. TPH	Haz Waste	General Chemistry	Other	ACWD By PLM
21	1:32	WS1 5-7'				X					4														X		X														
21	1:45	WS1 13-15'				X					4														X		X														
21	9:45	WSTP1-A																		X																					X
21	9:45	WSTP1-B																		X																					X
21	9:45	WSTP1-C																		X																					X
21	10:00	WSTP2-A																		X																					X
21	10:00	WSTP2-B																		X																					X
21	10:00	WSTP2-C																		X																					X
21	10:15	WSTP3-A																		X																					X
21	10:15	WSTP3-B																		X																					X
21	10:30	WSTP4-A																		X																					X
21	10:35	WSTP5-A																		X																					X

Options: ☐ TIC Search; Volatiles: Acid Only ☐ 8260 Full ☐ TIC Search; Semivolatiles: ☐ 8270 SIM; Pest/Herb/PCBs Extractable: ☐ 8081 ☐ 8151; Pest/Herb/PCBs Vol.: ☐ 8260 ☐ 8270; Metals: Specify for Water samples ☐ Total ☐ Dissolved; Petroleum Hydrocarbon Ext. TPH: ☐ MA DEP EPH; Petroleum Hydrocarbon Vol. TPH: ☐ MA DEP VPH; General Chemistry: ☐ Alkalinity ☐ Chloride ☐ Cyanide ☐ Fluoride ☐ Nitrate ☐ Nitrite ☐ Ortho Phosphorus ☐ Sulfate; Other: ☐ Flash Point ☐ Reactivity ☐ Ignitability ☐ Corrosivity ☐ Total Solids ☐ Total Suspended Solids ☐ Total Dissolved Solids ☐ Total Volatile Solids ☐ Total Fixed Solids ☐ Total Cyanide ☐ Total Sulfide ☐ Total Coliform ☐ Fecal Coliform ☐ HPC ☐ Asbestos (PLM)

REMARKS / SPECIAL INSTRUCTIONS

☒ YES ☐ NO MCP Data Certification required.

☐ YES ☐ NO MCP Drinking Water Sample Included. (Volatile analyses require duplicate collection and Trip Blanks).

☐ Analyze Duplicates and Trips Blanks only if positive results.

☐ YES ☐ NO CT RCP Data Certification required.

Signature:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☒ MA	☐ NY STARS	☐
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐	☐	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☐ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample:

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date/Time: 10/22/10 9:20a	Received by:	Receipt Temperature: 2.0°C ☐ Refrigerated ☐ Not Recommended
Relinquished by:	Date / Time	Received by:	Container Count:
Relinquished by:	Date / Time	Received by Laboratory:	Shipping/Airbill Number:

Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐

Custody Seal Number:

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Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: New Bedford Brownfields Braga Street
Firm: Weston & Sampson
Project Number: TBD
Address: 5 Centennial Drive
Sampler Name: Sean Healey
City / State / Zip: Peabody MA 01960
Project Manager: Sean Healey
Telephone: 978 532 1900

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☒ RUSH (RAN- _____) (Rush requires Rush Authorization Number)
- ☐ Please Email to: healeys@wsecin.com
- ☐ Please FAX to:

BILLING

- ☐ Purchase Order No.:
- ☐ Third Party Billing:
- ☐ GWA Quote:

ANALYSIS REQUEST

OPTIONS: ☐ TC Search

SOIL: ☐ SW-8 | ☐ SW-2

SOIL: ☐ SW-4 | ☐ SW-8 Metals | ☐ SW-8 Pesticides | ☐ SW-8 PCBs | ☐ SW-1 | ☐ SW-3 | ☐ SW-4 (EDB/DBCP) | ☐ Sediment Oxygen

RCRA/TE: ☐ RTRW (TA-HTRB) | ☐ RSWB | ☐ RSWB Inorganics | ☐ RSWB Metals/Cations | ☐ RSW-3 Wet Chem | ☐ RTRC | ☐ RCRA/TC Metals only | ☐ RSW-8 Pesticides | ☐ RSW PCBs | ☐ RTC-A Herbicides | ☐ RTC-B SDWA Herbicides | ☐ Reactivity

Metals: ☐ Specify for Water Samples | ☐ Total | ☐ Dissolved

Petroleum Hydrocarbon Ext. TPH: ☐ Diesel Range Organics (DRO) | ☐ MEDRC | ☐ OTI (TPH) | ☐ MADEP VPH analysis | ☐ EPH (Carbon Range Fractions) | ☐ EPH and Alpha | ☐ Hydrocarbon Fingerprint (GRO/DRO by MADEP 98-475) | ☐ TPH by DRO (Ext Med Diesel Range Clay) | ☐ Gasoline Range Organics (GRO) | ☐ MADEP VPH analysis

Haz. Waste: ☐ TCLP SW-8 | ☐ Metals | ☐ RCRA | ☐ Pesticides | ☐ Herbicides | ☐ Corrosivity | ☐ Reactivity | ☐ Ignitability | ☐ Sulfide | ☐ Cyanide | ☐ Chlorine | ☐ Flash Point | ☐ Metals: Regular, CAM/STEL, TPH, PCBs, S Mogas, Carbon Ignitability, Reactivity | ☐ MADEP Hydrocarbon Fingerprint, EPH, TPH, PCBs, S Mogas, Corrosivity, Ignitability, Reactivity

General Chemistry: ☐ Chloride | ☐ Nitrate | ☐ Nitrite | ☐ Sulfate | ☐ Orthophosphate | ☐ Total Phosphorus | ☐ Total Kjeldahl Nitrogen | ☐ Ammonia | ☐ TKN | ☐ Total Phosphorus | ☐ Total Kjeldahl Nitrogen | ☐ Alkalinity | ☐ Oil & Grease | ☐ COD | ☐ TOC | ☐ BOD | ☐ TSS | ☐ TDS | ☐ Alkalinity | ☐ Total Cyanide | ☐ Phenol (Specify Analytes Cyanide) | ☐ Acetylcholine Esterase

Other: ☐ Ignitability | ☐ Chemical Oxygen Demand | ☐ Total Solids | ☐ Total Suspended Solids (TSS) | ☐ Total Dissolved Solids (TDS) | ☐ Total Coliform | ☐ Fecal Coliform | ☐ Enterococci | ☐ Escherichia Coli

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS	Department of Environmental Protection, M-MA-103

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

Groundwater Analytical, Inc.
P.O.Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone: (508) 759-4441
FAX: (508) 759-4475

GROUNDWATER ANALYTICAL

e-mail

To:	Sean Healey	From:	e-mail reporting GWA
	Weston & Sampson -	Pages:	10
e-mail:	healeys@wseinc.com	Date:	12/13/2010 16:41:30
Re:	138246	CC:	

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply

● Comments:

Final Project Report for New Bedford Branfield, Brooks St, Lab ID 138246, Received 10-19-10

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Confidential

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

December 13, 2010

Mr. Sean Healey
Weston & Sampson, Inc.
5 Centennial Drive
Peabody, MA 01960

LABORATORY REPORT

Project: **New Bedford Branfield, Brooks St**
Lab ID: **138246**
Received: **10-19-10**

Dear Sean:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/elm
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**New Bedford Branfield, Brooks St**	Delivery:	**GWA Courier**	Temperature:	**5.2ºC**
Client:	**Weston & Sampson, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**138246**	Lab Receipt:	**10-19-10**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
138246-1	ACM-2		Solid	10/18/10 14:15	Asbestos Qualitative Soil by TEM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL
cal, Inc.
th, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: westmontasblab@EMSL.com

Attn: **Eric Jensen**
Groundwater Analytical
228 Main St.
PO Box 1200
Buzzards Bay, MA 02532

Fax: Phone: (508) 759-4441

Project: **138246 NEW BEDFORD BRANFIELD**

Customer ID: GANL50
Customer PO:
Received: 12/01/10 12:00 PM
EMSL Order: 041027669

EMSL Proj:
Analysis Date: 12/7/2010

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
ACM-2 tile *041027669-0001*		Tan Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected
ACM-2A tar *041027669-0001A*		Black Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected

Initial report from 12/07/2010 00:06:30

Analyst(s)
Debbie Little (2)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ

THIS IS THE LAST PAGE OF THE REPORT.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**New Bedford Branfield, Brooks St**	Lab ID:	**138246**
Client:	**Weston & Sampson, Inc.**	Received:	**10-19-10 18:00**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1 . Sample 137186-28 was reassigned laboratory number 138246-1 and was analyzed by TEM due 12-08-10, per Sean Healey, 11-30-10.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1 . No method modifications, non-conformances or analytical issues were noted.

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Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

* All Samples to be analyzed for VOH, EPH, VOCs, PCBs RCRA-8

Project Name: New Bedford Brownfield Brook Street
Project Number:
Sampler Name: M. Novello
Project Manager: Sean Healey

Firm: Weston & Sampson
Address: 5 Centennial Drive
City / State / Zip: Peabody, MA 01960
Telephone: 978 532 1900

TURNAROUND

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☐ RUSH (RAN- _____) (Rush requires Rush Authorization Number)
- ☐ Please Email to: [illegible]
- ☐ Please FAX to:

BILLING

- ☐ Purchase Order No.:
- ☐ Third Party Billing:
- ☐ GWA Quote:

ANALYSIS REQUEST

Volatiles: ☐ TO Bench
Semivolatiles: ☐ Acid Only ☐ Base Only ☐ TO Bench
Pest/Herb/PCBs Extractable Vol.
Metals: Specify Exp Water Sampled ☐ Total ☐ Dissolved
Petroleum Hydrocarbon Ext. TPH Vol. TPH
Haz. Waste
General Chemistry
Other

ACM BY RCRA-8

INSTRUCTIONS: Use separate line for each container (except replicates).

Sampling Date	Time	SAMPLE IDENTIFICATION	Matrix: Groundwater	Drinking Water	Wastewater	Soil	Other Solid	Oil/Organic Liquid	Type: Composite	Grab	Container(s): Number	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	2.5L/1 gal Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	1L/32 oz Brown	Plastic Bag	Preservation: HCl	HNO3	H2SO4	NaOH	Methanol	Sodium Bisulfate	Ice	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
10	1535	WS TP9 (0-3)				✓						✓			✓												✓		✓			
	1600	WS TP-9A (0-3)				✓						✓			✓												✓		✓			
	15:35	WS TP-7 MS/MSD				✓						✓			✓												✓		✓			
	16:20	WS TP-10 (0-3)				✓						✓			✓												✓		✓			
	14:20	ACM-1					✓															✓										
	14:15	ACM-2					✓															✓										
	14:40	ACM-3					✓															✓										
	13:05	ACM-4					✓															✓										
	16:20	ACM-5					✓															✓										

REMARKS / SPECIAL INSTRUCTIONS

- ☑ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample Included. (Volatile analyses require duplicate collection and Trip Blanks).
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO CT RCP Data Certification required.

Signature: [illegible]

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☑ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ ___	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless programmed. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☑ Sample Duplicate
- ☑ Matrix Spike
- ☑ Matrix Spike Duplicate

Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler: [illegible]	Date: 10/19/10	Time: 1:20	Received by: Alan Maddigan	Date: 10/19/10	Time: 4:05	Receipt Temperature: Ice ☐ Refrigerated ☐ Recommended 5.2°C
Relinquished by: Alan Maddigan	Date: 10/19/10	Time: 6:00	Received by: [illegible]	Date: 10/19	Time:	Container Count:
Relinquished by:	Date:	Time:	Received by Laboratory:			Shipping/Airbill Number:

Method of Shipment: ☑ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7

Non-Potable Water (Wastewater)

Analyte	Method
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

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Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8