GEC Project No. 1717-2010

PHASE I INITIAL SITE INVESTIGATION TIER CLASSIFICATION, AND NUMERICAL RANKING SCORESHEET

FOR

130 FOOT OF JOHN STREET
LOWELL, MASSACHUSETTS

MADEP RTN 3-26688 & 3-30667

April 11, 2012

Prepared For:
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Submitted to:
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1.0 CONCEPTUAL SITE MODEL

The property addressed as 130 Foot of John Street, Lowell, Massachusetts is owned by Boott Properties, LLC and contains three adjoining buildings (Building 3, Building 4 and Building 5) utilized as residential apartments, commercial space and vacant, "raw" mill space. The property is located in an area zoned "Down Town Mixed Use". The remainder of the property consists of two paved courtyards located on the eastern and western ends of the buildings. The eastern courtyard is an exterior courtyard and the western courtyard is an enclosed courtyard. The property is part of the former Boott Mill Complex. It is bounded by the Merrimack River to the north and Boott Mill Buildings 6, 8 and 9 abut the property to the south. Foot of John Street abuts the property to the east. Boott Mill Buildings 2, 1 and 7 are located east of the property, across Foot of John Street. The Merrimack Canal abuts the property to the west.

Historical information indicates that, the property was developed prior to 1892. The property was occupied by the Boott Mills Cotton Goods manufacturer from 1919 to 1955. Since 1955, industrial and commercial activities conducted at the property have included, but were not limited to, wooden box manufacturer, clothing manufacturer, cleaner, textiles, restaurant, dress company, plastic container manufacturers, machine and engineering shop, silk screening companies, electronic assembly company, welding shop, vinyl and cotton lamination companies, bearings manufacturer, various commercial uses and residential.

In November 2006, a release of polychlorinated biphenyls (PCBs) was discovered in the exterior (eastern) courtyard by TRC Environmental (TRC) of Lowell, MA. TRC was retained by general contractor Consigli Construction, who observed petroleum odor when advancing test pits in the exterior courtyard. When the contamination was discovered, the property was owned by Boott Cotton Mills Development, LLC, a party that was unrelated to the current owner/filer. Environmental Compliance Services, Inc. (ECS) submitted a Release Abatement Measure (RAM) Plan to the Massachusetts Department of Environmental Protection (MADEP) on December 8, 2006. The RAM Plan provided details on the planned excavation of PCB-contaminated soils. The presence of PCBs in soils at a level (22.73 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg) was reported to the MADEP as a 120-day reportable condition on March 20, 2007. Benzo(a)pyrene was also detected at a level (6.23 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg); however, it was not reported to

MADEP, perhaps because it was present at a level below its published background concentration (7 mg/kg) for soils associated with fill containing coal ash or wood ash. The PCB release condition identified at the disposal site was assigned Release Tracking Number (RTN) 3-26688.

Soil excavation was conducted on March 29 and 30, 2007. Excavated soils were directly loaded onto trucks and transported to Turnkey Landfill in Rochester, New Hampshire. The total amount of soils transported from the disposal site for disposal was 209 tons. On April 5, 2007, nine soil samples were collected from the sidewalls and bottom of the excavation for confirmatory analysis. PCB levels ranged from none detected to 6.15 mg/kg. PCBs, polycylic aromatic hydrocarbons (PAHs) and lead were detected at levels above Method 1 S-1 standards. No separate release notification appears to have occurred for the PAHs and lead. On April 30, 2007, the excavation was backfilled with clean soils and gravel. ECS submitted a RAM Completion Report to the MADEP on January 29, 2008, on behalf of Boott Mill Development Corporation. At the time the RAM Completion Report was submitted, the property owner was Boott Cotton Mills Development, LLC. Presumably, Boott Mill Development Corporation and Boot Cotton Mills Development, LLC were affiliates. A stormwater management system was installed in the excavated area subsequent to the RAM.

On July 17, 2008, MADEP issued a Notice of Noncompliance (NON) to "Boott Cotton Mill Development Corporation" for not submitting a Response Action Outcome (RAO) Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

In February 2010 Goldman Environmental Consultants, Inc. (GEC) was contracted by an entity interested in purchasing the property to conduct a due diligence Phase I Environmental Site Assessment (ESA) for the property. The Phase I ESA dated, February 25, 2010 identified: (1) the active disposal site associated with RTN 3-26688 and the known release of PCBs, petroleum hydrocarbons and suspected release of metals to soil in the vicinity of the exterior (eastern) courtyard; and (2) a potential release of oil or hazardous materials (OHM) from an existing wall-mounted transformer and a former maintenance shop located within the enclosed (western) courtyard.

In June and September, 2011, due diligence subsurface investigations were conducted by GEC to determine the extent and magnitude of contamination across the disposal site. Subsurface investigations included the installation of several soil borings and monitoring wells, groundwater gauging and sampling activities and the collection of soil vapor samples.

The recent discovery of contaminants not reported to MADEP under RTN 3-26688 was reported by GEC to Boott Mill Developer LLC, the party interested in purchasing the property, in December, 2011. The release triggered a 120-day reporting obligation pursuant to 310 CMR 40.0315(1) for lead concentrations in soil; however, since Boott Mill Developer LLC was not the owner they were under no obligation to notify. GEC prepared a Phase II Limited Subsurface Investigation Report, dated December 8, 2011, summarizing the latest subsurface investigations along with conclusion and recommendations. The report was ultimately provided to Boott Properties, LLC (the current owner) and they were notified of their reporting obligations. Boott Properties, LLC then retained GEC to report the release to the MADEP. The MADEP was notified of the condition on February 22, 2012, through Release Notification Form BWSC-103 which was submitted electronically through eDEP. This release incident was assigned RTN 3-30667. This RTN is being linked to RTN 3-26688 via this Phase I submittal.

GEC's subsurface investigation within the exterior courtyard found evidence of residual PCB contamination above the applicable MADEP Method 1 S-1 Standards (2 mg/kg), with one soil sample containing PCB (124 mg/kg) at a level exceeding its UCL (100 mg/kg). Elevated levels of PCB contamination persists in both shallow soils and in soils at depths to 10-15 feet below ground surface adjacent to the north central portion of the courtyard (south wall of the renovated portion of Mill building 5). Additionally, shallow soils in the southwest corner and eastern portion of the courtyard are impacted with elevated concentrations of PCBs. Based on recent subsurface investigations, GEC concludes that the remedial activities conducted by ECS as described in their January 2008 report did not completely address the release of PCBs, reportedly from a wall-mounted transformer formerly located on the northern side of the exterior courtyard. The levels of residual PCB contamination is higher than reported in the RAM Completion Report, and the vertical and horizontal extent of contamination is larger than reported in the RAM Completion Report. The full extent of PCB contamination in soils at the disposal site is not known at this time, including whether the contamination extends beneath Mill buildings 3 or 5.

No PCBs were detected in any of the groundwater samples collected for dissolved PCB analysis. In addition, groundwater samples were collected from GEC-1, GEC-2, GEC-4, GEC-6 and GEC-7 for analysis of VOCs and from GEC-2 and GEC-6 for analysis of VPH. Little or no VPH or VOCs were detected in the groundwater samples\. Based on these results, PCBs, VOCs, and VPH in groundwater is not a significant issue. Insufficient VOCs and VPH are present in groundwater to result in the co-solution of PCBs in groundwater.

For the exterior courtyard, concentrations of lead in shallow soils (0-3 feet) collected from borings B-10, B-11, and B-12 exceed the MADEP's background concentrations for soils associated with fill containing coal ash or wood ash. The levels of lead also exceed the Method 1 S-1 soil standards.

For monitoring well GEC-1, located in the exterior courtyard, total lead was detected (71 ug/l) above its Method 1 GW-3 standard (10 ug/l) in the sample collected on September 7, 2011. Yet, no dissolved lead was detected in the filtered sample collected at the same time from GEC-1, thereby suggesting that lead is adsorbed to soil particles and is not mobilized within the water column.

GEC's investigation in the exterior courtyard also found elevated levels of the following polycyclic aromatic hydrocarbons (PAH) above their MADEP-published background concentrations and Method 1 S-1 soil standards: benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene and dibenzo[a,h]anthracene. These exceedences were detected in samples obtained from soil recoveries that contained fly ash, coal, gasified coal and / or coal ash. The presence of PAHs is due at least in part to the presence of coal ash in the soils, which is a background condition; however, the transformer oil release may have contributed to the presence of PAHs in soils.

Chromium was detected in one soil sample and nickel in two soil samples at levels greater than their Method 1 S-1 standards and slightly greater than background concentrations. The presence of chromium and nickel may be attributable to the observed presence of coal ash, fly ash and coal in the fill, and/or to historic industrial operations at the subject property.

GEC's investigation within the enclosed courtyard found no evidence of PCB contamination, though there were relatively low levels of PAHs and metals detected in at least one sample. Lead was detected at higher concentrations, and it was detected in all soil samples submitted for analysis. Again, GEC documented the presence of brick, coal,

and coal ash in soils. Except for lead, the metal and PAH concentrations may be attributed to a background condition and not a separate release. Historic industrial operations may have also contributed to the presence of some of the PAHs and metals.

Based on current conditions, the contaminated soils are covered by asphalt and concrete pavement and building foundations. There is no mechanism for human exposure to the soil contamination under current conditions, except perhaps during periods of utility repair work. Exposure to the soils may occur in the future, if the pavement or building foundation is removed or during future construction activities. During such times, exposure pathways may include direct contact to the soils, incidental ingestion of soils and inhalation of dusts generated during soil disturbance activities.

Soil vapor points were installed through the floor of Mill Building 3 and near Mill Building 5, in the areas with the highest levels of PCB-contaminated soils. Soil vapor samples were collected and analyzed for PCBs. No PCBs were detected and the RDLs were low enough to determine that soil vapor intrusion to indoor air is unlikely to be a significant migration pathway for this disposal site.

Based on the available groundwater data, there is no significant dissolved-phase contamination associated with the disposal site. No plume of dissolved-phase groundwater contamination is emanating from the disposal site. No non-aqueous phase liquid or free phase product has been encountered at the disposal site.

Based on a review of the available data, additional assessment is needed to fully define the magnitude and extent of PCBs and lead contamination in soils. As presented in the Phase II SOW, additional soil and groundwater samples will be collected throughout the disposal site during Phase II investigations to delineate the magnitude and extent of contamination and to characterize potential migration and exposure pathways.

The Merrimack River abuts the property and generally flows from northwest to southeast in the vicinity of the property. Canals associated with the Merrimack River are located proximal to the disposal site. Based on an evaluation of the available groundwater data, the OHM detected in groundwater appear to be adsorbed to soils and are not present in a dissolved state. As a result, groundwater contamination is unlikely to migrate with groundwater flow and discharge to the Merrimack River or its associated canals. Therefore, a significant impact to surface water is unlikely to be occurring or to occur in the future.

2.0 INTRODUCTION

In June of 2011, an entity interested in purchasing the property retained GEC to conduct limited subsurface investigations to assess areas of known and possible concern identified in a Phase I ESA, completed by GEC and dated February 25, 2010. These areas included: (1) the active disposal site associated with RTN 3-26688 and the known release of PCBs, petroleum hydrocarbons and metals to soil in the vicinity of the exterior (eastern) courtyard; and (2) a potential release of OHM from an existing wall-mounted transformer and a former maintenance shop located within the enclosed (western) courtyard.

The results of the first round of investigation determined: 1) that residual concentrations of PCBs associated with a known historic release in the exterior courtyard remain at the disposal site; and 2) that lead is present in soils within the enclosed courtyard at a concentration above its applicable RCS-1 Reportable Concentration and its MADEP's published background concentration for soils associated with urban fill containing coal ash or wood ash.

Subsequently, GEC returned to the disposal site to conduct a second round of subsurface investigations in an attempt to determine the extent to which the detected contaminants are impacting the disposal site. Included in this report is a summary of subsurface investigations conducted by GEC and the findings of the investigations. This work was conducted in accordance with the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000, and M.G.L. c. 21E.

The recent discovery of contaminants not reported to MADEP under RTN 3-26688 was reported by GEC to Boott Mill Developer LLC, the party interested in purchasing the property, in December, 2011. The release triggered a 120-day reporting obligation pursuant to 310 CMR 40.0315(1) for lead concentrations in soil, however since Boott Mill Developer LLC was not the owner they were under no obligation to notify. GEC prepared a Phase II Limited Subsurface Investigation Report dated December 8, 2011 summarizing the latest subsurface investigations along with conclusions and recommendations. The report was ultimately provided to Boott Properties, LLC (the current owner) and they were notified of their reporting obligations. Boott Properties, LLC then retained GEC to report the release to the MADEP and complete this Phase I report and Tier Classification to bring the disposal site into regulatory compliance.

The MADEP was notified of the condition on February 22, 2012, through Release Notification Form BWSC-103, which was submitted electronically through eDEP. Refer to Appendix D for copies of the public notifications provided to the City of Lowell Chief Municipal Officer and Board of Health notifying them of the release notification made to MADEP. This release incident was assigned RTN 3-30667. This new RTN is being linked to the main RTN for the disposal site, RTN 3-26688. Both RTNs and related contaminants of concern (COCs) are being considered in this Tier Classification, Numerical Ranking, and Phase I Initial Site Investigation report.

This report constitutes the Phase I Initial Site Investigation for the detection of OHM at concentrations in excess of applicable Method 1 Reportable Concentrations (RTNs 3-26688 & 3-30667) at 130 Foot of John Street, Lowell, Massachusetts. This report is being used to support the Tier Classification and scoring which is being submitted electronically through eDEP. Based on the results of Tier Classification, GEC determined that the disposal site is a Tier II Disposal Site.

3.0 GENERAL DISPOSAL SITE INFORMATION

3.1 Site Location and Information

According to the Lowell Assessor's office, the property is located at 130 Foot of John Street and consists of a 1.7-acre parcel that is occupied by Mill buildings No. 3, 4 and 5. Building 3 is located on the southeast portion of the property and shares a common wall with Building 4, which is located on the southwest portion of the property. Building 3 and 4 both contain six stories. Building 5 occupies the entire northern half of the property and contains five stories. Buildings 3 and 4 are separated from Building 5 by two paved courtyards located on the eastern and western ends of the buildings. All of the buildings are constructed on footings and do not have basements. Currently the property buildings contain 39 occupied residential condo units, 6,000 square feet of occupied commercial space, 10,000 square feet of unoccupied, finished commercial space, and 164,000 square feet of vacant, "raw" mill space.

Three water raceways are located beneath the property buildings running south to north connecting the East Canal and the Merrimack River: (1) Raceway 9 is located beneath buildings No. 4 and 5 near the western boundary of the property; (2) Raceway 6, 7, 8 is located beneath building No. 3, 4 and 5 through the approximate center of the property; and (3) Raceway 2 is located near the western boundary of the property adjacent

to building No. 4 and beneath building No. 5. GEC did not observe visual evidence of the location of the raceways during the property inspection.

The property is bounded by the Merrimack River to the north, 116 Foot of John Street to the south, which is where Mill buildings 8 and 9 are located. The Eastern Canal is located south and adjacent to 116 Foot of John Street. The property is adjacent and west of Foot of John Street. Properties addressed as 129, 133, 139 and 141 are located on the east side of Foot of John, which is where Mill buildings 2, 1, 7 and 5 are located, respectively. In addition 115 Foot of John Street is located to the southeast of the property, which is where Mill No. 6 is located. The Merrimack Wasteway is located to the west and is adjacent to the property.

The current usage of the surrounding Mill building is mixed usage consisting of residential, office, commercial, museum and empty space.

The longitude and latitude of 130 Foot of John Street, Lowell, MA are 42°38'54" north and 71°18'29" east/west. The Universal Transverse Mercator (UTM) coordinates are 310807E meters and 4724354N meters. To the extent that the disposal site boundaries have currently been defined, the disposal site boundary extends slightly beyond both courtyard areas. The Site Locus is provided as Figure 1. The Site Plan is provided as Figure 2, and the Groundwater Contour Plan is Figure 3. The MADEP Site Scoring Map, showing 500-foot and ½-mile radii, is provided as Figure 4.

3.2 Human Populations

The property is currently occupied by three mill buildings utilized for residential, commercial and vacant, "raw" mill space. Approximately 60 residents reside in the buildings and approximately 12 employees currently work in the buildings.

The current usage of the surrounding Mill buildings is mixed consisting of residential, office, commercial, museum and empty space.

Based on the 2010 U.S. Census, the population of Lowell is 106,519, with a land area of 13.58 square miles (www.census.gov). Presuming an even population density distribution, the population per square mile is approximately 7,844. Using this density, the estimated population within one-half mile of disposal site is 6,158 persons.

No schools or day cares are known to be located within 500 feet of the property.

Institutions are defined at 310 CMR 40.0006 as any publicly or privately owned hospital, health care facility, orphanage, nursing home, convalescent home, educational facility or correctional facility, where such facility in whole or in part provides overnight housing. No institutions are known to be located within 500 feet of the facility.

3.3 Natural Resource Areas

Natural resource areas include: (1) all surface waters, including wetlands, vernal pools, ponds, lakes, streams, rivers and reservoirs; (2) drinking water supplies consisting of Zone II areas, Interim Wellhead Protection Areas, Zone A areas, Potentially Productive Aquifers, and private wells; (3) Areas of Critical Environmental Concern (ACEC); (4) Sole Source Aquifers; (5) local, state and/or federal protected open space; (6) fish habitats; and (7) habitats of Species of Special Concern or Threatened or Endangered Species.

The Merrimack River abuts the property to the north and the Merrimack Canal abuts the property to the west. Other canals located within ½-mile of the disposal site include, the Northern Canal, the Hamilton Canal, and the Eastern Canal. The Concord River is located approximately ½-mile southeast of the disposal site.

The Merrimack River generally flows from northwest to southeast in the vicinity of the property. In the vicinity of the disposal site, the Merrimack River is a Class B (Warm Water, Treated Water Supply, CSO) water body according to the Massachusetts Surface Water Quality Standards [314 CMR 4.00] for unlisted waters. Class B water bodies are designated as a habitat for fish, other aquatic life and wildlife, and for primary and secondary contact recreation. Class B (Warm Water) water bodies are subject to dissolved oxygen and temperature criteria for warm water fisheries. Class B (Treated Water Supply) water bodies denotes those Class B waters that are used as a source of public water supply after appropriate treatment. Class B (CSO) water bodies occasionally are subject to short-term impairment of swimming or other recreational uses due to untreated combined sewer overflow discharges in a typical year, and the aquatic life community may suffer adverse impact yet is still generally viable.

Based on a review of the MADEP Site Scoring Map (Figure 4), the disposal site is located within a 100-year flood plain. Other 100-year flood plains are located within ½-mile of the disposal site along the Merrimack River, the Eastern Canal, the Hamilton Canal and the Concord River. A Natural Heritage and Endangered Species Program (NHESP) estimated rare wetland habitat is located in the portion of the Merrimack River

that abuts the property. Protected Open Spaces are located approximately 500-feet southeast, 500-feet north, ¼-mile southwest, ¼-mile southeast, ½-mile west, ½-mile southwest, ½-mile east and ½-mile north of the property.

According to the FirstSearch Report, a 100-year floodplain (MAQ3-25017-1114/AE) is located approximately 260 feet to the northeast. The Lowell Heritage State Park (MAOS-160-136-1669/OPEN SPACE, MAOS-160-126-2141/OPEN SPACE and MAOS-160-127-3081/OPEN SPACE MAOS-160-127-3081/OPEN SPACE) is located approximately 400 feet to the northwest. Located approximately 420 feet northeast are a National Wetlands Inventory (NWI) wetland (NWI-MA-27406/R2UBH MA) and an habitat of rare wildlife (MAAC-WHAB-308-I1/WHAB MA). Located approximately 420 feet northwest is the Lowell Heritage Park (MAOS-160-153-1669/OPEN SPACE) and a priority habitat of rare species (MAAC-PHAB-846-K1/PHAB).

Other open spaces associated with the Lowell Heritage Park are located approximately 475 feet northwest (MAOS-160-135-3081/OPEN SPACE) and southeast (MAOS-160-145-7049/OPEN SPACE). In addition a NWI wetland and Kerouac Park are located approximately 475 feet southeast of the disposal site (NWI-MA-28202/PRBKHHRX & MAOS-160-1153-234/OPEN SPACE). Additional 100 and 500-year floodplains are located approximately 580 feet northwest of the disposal site (MAQ3-25017-1078/X500 - 500 YEAR, MAQ3-25017-1110/AE - 100 YEAR). Another 100-year floodplain is located approximately 690 feet southeast of the disposal site (MAQ3-25017-1124/AE - 100 YEAR). Lucy Larcom Park is located approximately 800 feet to the northeast of the disposal site (MAOS-160-5551-308/OPEN SPACE MA). An additional open space associated with the Lowell Heritage Park is located approximately 850 feet northeast of the disposal site (MAOS-160-172-3548/OPEN SPACE). Also, a 500-year floodplain is located approximately 850 feet to the northeast (MAQ3-25017-894/X500 - 500 YEAR). Open spaces located approximately 1,000 feet from the disposal site are to the northeast (MAOS-160-45-11781/OPEN SPACE) associated with Ferry Landing Park, and to the southwest (MAOS-160-1154-233/OPEN SPACE) associated with Derby Park.

The property and surrounding areas are serviced by the municipal potable water supply. Based on the MADEP Site scoring map, the property is not located within a potential or actual drinking water source area. No private water supply wells are located nearby.

4.0 DISPOSAL SITE MAP

A Site plan showing disposal site boundaries (to the extent they are currently known), property boundaries, the on-site buildings, subsurface utility lines, storm drains, monitoring wells, and soil borings, are provided in Figure 2. The Disposal Site Map will be updated in the Phase II Comprehensive Site Assessment to show additional information as it becomes available.

5.0 DISPOSAL SITE HISTORY

The disposal site history was constructed based on interviews with property representatives; Sanborn Atlases and City Directories (e.g., Polk) provided by First Search Corporation; a review of historical topographic maps maintained online by the University of New Hampshire and the records on file at the Lowell Building Department and a review of an Environmental FirstSearch Report from FirstSearch Technology Corporation (provided as Appendix A). GEC also relied on information provided in the Phase I ESA, dated February 25, 2010, completed by GEC. Additional disposal site history information will be updated in the Phase II Comprehensive Site Assessment as it becomes available.

5.1 Owner / Operator and Operations History

The property is currently owned by Boott Properties, LLC. The property buildings are currently utilized for residences, commercial space and vacant, "raw" mill space. Based on information obtained from Boott Properties, LLC, Boott Properties, LLC purchased the property on October 14, 2010. Based on information obtained from the Lowell Assessor's Office, the current property buildings were constructed in 1871.

GEC reviewed available Sanborn maps for Lowell dated 1892, 1907, 1950, 1952 and 1977. The property and vicinity were depicted in all of the maps. No address is indicated for the property on any of the reviewed Sanborn Maps.

The 1892 Sanborn map depicts 130 Foot of John Street, which includes Mill buildings No. 3, 4, and 5 depicted similarly to its current condition. All Mill buildings depicted are a part of the Boott Cotton Mills.

The 1907 Sanborn map depicts the property to current conditions. The 1907 map depicts four open elevators: (1) on the approximate southeast corner of Mill Building No. 4; (2) on the southwest corner of Mill Building No. 4; (3) on the south side of Mill

Building No. 5 in the approximate middle; and (4) on the west side of Mill Building No. 5. Adjacent to the property, three boilers are depicted located at Mill No. 7. The property buildings and associated Mill buildings depicted are a part of the Boott Mills.

The 1950 Sanborn map depicts the property similarly to the 1907 map. A machine shop is depicted in the courtyard between Mill Buildings No. 4 and 5. The property buildings and associated Mill buildings continue to be depicted as a part of the Boott Mills.

The 1952 and 1977 Sanborn map depicts the property similarly to the 1950 map except that the machine shop is no longer depicted in the courtyard between Mill Buildings No. 4 and 5 as it was on the 1950 map. The property buildings and associated Mill buildings continue to be depicted as a part of the Boott Mills.

GEC reviewed available city directories for the City of Lowell dated 1919, 1922, 1927, 1932, 1937, 1940, 1942, 1948, 1955, 1960, 1966, 1971, 1976, 1981, 1985, 1990, 1998-99, 2004 and 2009. The following tables summarize historic property occupants. The property address was not listed as 130 Foot of John Street on any city directories until 2009. Therefore, occupants listed may be occupiers of any of the eight Mill buildings of Boot Mills during that time period. In the 1998-99 directory, the property is listed at 400 Foot of John Street. Prior to 1998-99 no address was listed for the property. The 2009 directory is the first directory to list the property address as 130 Foot of John Street

130 Foot of John Street

Period	Property Address	Property Occupant
1919	No address	• Boot Mills Cotton Goods Manufacturer
1922	No address	• Boot Mills Cotton Goods Manufacturer
1932	No address	• Boot Mills Cotton Goods Manufacturer
1942	No address	• Boot Mill Cotton Goods manufacturer
1948	No address	• Boot Mill Cotton Goods manufacturer
1955	No address	• Boot Mill Cotton Goods manufacturer • Symphonic Radio and Electronics Corp • Wakefield Industries Inc wooden box manufacturer
1960	No address	• Boot Mills Real Estate • Symphonic Radio and Electronics Corp • Wakefield Industries Inc wooden box manufacturers • King's Boot Mill Store Inc department store • Thomas Cleaners Inc • Interstate Container Corp • Model Dress Co clothing manufacturer • Solomon and Nathan & Co inc clothing manufacturer • Northern Textiles Real Estate • Mineral Industries Corp of America • Vogue Silver Co flatware manufacturer • Sorensen Machine & Engineering Co • Jamppa Manufacturer Inc ladies sport wear manufacturer
1966	No address	• Boott Mills industrial real estate • Jamppa Mfg Co Inc ladies sportswear manufacturer • Jet Containers Inc plastic food containers manufacturer • Mineral Industries Corp of America Mineral Research • Model Dress Co Inc manufacturer • Locks & Canals on Merrimack River • Solomon Nathan & Co Inc underwear manufacturer • Sorensen Machine and Engineering • Symphonic Radion and Electronics Corp • Union Carbide Corp graphite manufacturer • Vogue Silver Co flatware manufacturer • Wakefield Industries Inc box manufacturer • White House Lunch Bar
1971	No address	• Boott Mills Industrial Real Estate • Chemical & mineral Development Corp mineral research • Corporation Investments Inc • Jamppa Mfg Co Inc ladies sportswear manufacturer • Jet Containers Inc plastic food container manufacturer • Model Dress Corp manufacturer • Locks & Canals on Merrimack River • Solomon Nathan & Co Inc underwear manufacturer • Sorensen Machine & Engineering Co • Symphonic Electronic Corp • Standard Maintenance Corp janitorial services • Vogue Silver Co flatware manufacturer

Period	Property Address	Property Occupant
1976	No address	• Boot Mills industrial real estate • Casual Footwear Inc • Corporation Investments Inc • Jamppa Mfg Co Inc ladies sportswear manufacturer • Mobil Chemical manufacturer of plastic containers • Locks & Canals on Merrimack River • Solomon Nathan & Co Inc underwear manufacturer • Sorensen Machine & Engineering Co • Best GL & Co manufacture of electric bug killers • FWM Inc welding shop • TDR Electronics Inc time delay relays manufacturer • Vogue Industries Inc flatware manufacturer • Sanford Machine Co machine shop • Wakefield Inc
1981	No address	• Boott Mills industrial real estate • Landmark Printing • Stager Corp security control equipment • D&D industries • MCF Industries electronic assemblies • Dimensions Design Graphics silk screen • Filter Flo • Printed Products Corp screen printing • Alexander Peter Group screen printing • Silk Screen Specialties • WBC Extrusion Products Inc plastics • Vogue • Best GL • Ideal Tape • Casual Footwear Inc • Corporation Investments • Jamppa Manufacturing Co Inc ladies sportswear manufacturer • Mobil Chemical manufacturer of plastic containers • Locks & Canals on Merrimack River • Solomon Nathan & Co Inc sleepwear manufacturer • Sorensen Machine & Engineering Co • Sundon Quilts manufacturer of down quilts • FWM welding shop • South Manufacturing vinyl and cotton lamination • Sanford Machine Co machine shop

Period	Property Address	Property Occupant
1985	No address	• Boott Mill industrial real estate • Landmark Printing • Stager Corp security control equipment • Filter Flo • WBC Extrusion Products Inc plastics • Jamppa Manufacturing Co Inc ladies sportswear manufacturer • Locks & Canals on Merrimack River office • Solomon Nathan & Co Inc sleepwear manufacturer • Sundown Quilts manufacturer of down quilts • FWM Inc welding shop • MCF Industries electronic assembly • Woodmarks Distributors
1990	No address	• Boot Mills the industry parks • Tsongas Industrial history Center Museum • Boott Mills Limited Partnership • South Combining Inc vinyl & cotton laminators • W Filter Flo filter manufacturer • Alden-Broden Rollers Inc bearing manufacturer • Lowell National Historical Park • WBC Extrusion Products plastic products manufacturer • Regis Service Corps comp equipment rpr
1998-99	400 Foot of John Street	• Boot Cotton Mills Museum Store • Northeast Cultural Resources Center • Tsongas Industrial History Center tour operations
2004	400 Foot of John	• Lowell Historical Society • Tsongas Industrial History Center
	130 Foot of John	• Allied Security guard and patrol service • Waterfront Lofts at Boott Mills • Multiple Residential Listings

The Historical City Directory provided by FirstSearch Corporation indicates that the property (no address indicated) was occupied by the Boott Mills Cotton Goods Manufacturer from at least 1919 and 1955. Symphonic Radio & Electronics and Wakefield Industries, a wooden box manufacturer, were listed as property occupants on the City Directories from 1948 until 1966. Boott Mill Industrial Real Estate, the Solomon Nathan and Company clothing manufacturer and Jamppa Manufacturing Company of ladies Sportswear were occupants listed on city directories between 1960 and 1985. The King's Boott Mill Store, Thomas Cleaners, Interstate Container and Northern Textiles are listed as a property occupant only in 1960. The White House Lunch Bar and Mineral Industries Corporation, a mineral research firm, are listed as property occupants in 1960 and 1966. The Model Dress Company, Jet plastic container manufacturer and Sorensen Machine and Engineering are listed as property occupants from 1960 to 1971. Three silk

screening companies and other plastic container manufacturers are listed as occupants in 1981. WBC plastic container manufacturer was listed as an occupant between 1981 and 1990. MCF Industries an electronic assembly company was an occupant between 1981 and 1985. FWM welding shop was listed as an occupant in 1985. South Manufacturing, a vinyl and cotton lamination company, is listed as a property occupant between 1985 and 1990. Alden-Broden Roller (a bearings manufacturer), South Combining, Inc. (a vinyl and cotton laminator), and the Tsongas Industrial Museum were occupants in 1990. Between 1998 and 2004 the property was listed as 400 Foot of John Street and occupants were listed as Boott Cotton Mills Museum Store, Northeast Cultural Research Center and the Tsongas Industrial History Center. The 2009 city directory lists the property as its current address of 130 Foot of John Street and lists the occupants as Allied Security guard and services, Waterfront Lofts at Boott Mills and Residential Listings.

5.2 Release History

In November 2006, a release of PCBs was discovered in the exterior (eastern) courtyard by TRC of Lowell, MA. TRC was retained by general contractor Consigli Construction, who observed petroleum odor when advancing test pits in the exterior courtyard. When the contamination was discovered, the property was owned by Boott Cotton Mills Development, LLC, a party that was unrelated to the current owner/filer. ECS, submitted a RAM Plan to the MADEP on December 8, 2006. At the time of the RAM Plan submittal, Boott Cotton Mill Development Corporation was the owner and potentially responsible party (PRP) of the disposal site. The RAM Plan provided details on the planned excavation of PCB-contaminated soils. The RAM Plan noted "the site is not currently being tracked by a MADEP RTN, however, an RTN will be assigned upon submittal of this RAM Plan." The presence of PCBs in soils at a level (22.73 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg) was reported to the MADEP as a 120-day reportable condition on March 20, 2007. Benzo(a)pyrene was also detected at a level (6.23 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg); however, it was not reported to MADEP, perhaps because it was present at a level below its published background concentration (7 mg/kg) for soils associated with fill containing coal ash or wood ash. The PCB release condition was assigned RTN 3-26688.

Soil excavation was conducted on March 29 and 30, 2007. Excavated soils were directly loaded onto trucks and transported to Turnkey Landfill in Rochester, New Hampshire. The total amount of soils transported from the disposal site for disposal was 209 tons. On April 5, 2007, nine soil samples were collected from the sidewalls and

bottom of the excavation for confirmatory analysis. PCB levels ranged from none detected to 6.15 mg/kg. PCBs, PAHs and lead were detected at levels above Method 1 S-1 standards. No separate release notification appears to have occurred for the PAHs and lead. On April 30, 2007, the excavation was backfilled with clean soils and gravel. ECS submitted a RAM Completion Report to the MADEP on January 29, 2008, on behalf of Boott Cotton Mill Development Corporation. At the time the RAM Completion Report was submitted, the property owner was Boott Cotton Mills Development, LLC. Presumably, Boott Mill Development Corporation and Boot Cotton Mills Development, LLC were affiliates. A stormwater management system was installed in the excavated area subsequent to the RAM.

On July 17, 2008, MADEP issued a NON to "Boot Cotton Mill Development Corporation" for not submitting a RAO Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

In addition to MGL c.21e, the PCB release is also regulated under the federal Toxic Substances and Control Act (TSCA). The U.S. Environmental Protection Agency (USEPA) should have been notified of the PCB release, been provided a copy of the RAM Plan prior to conducting RAM activities, and then provided with the RAM Completion Report. GEC has seen no evidence that these TSCA submittals were done. GEC plans to submit documentation to the USEPA pertaining to the PCB release prior to conducting any additional response actions at the disposal site.

5.3 Oil and / or Hazardous Material Use and Storage History

Historical information regarding the types and quantities of OHMs used or generated, prior to Boott Properties, LLC acquisition, is limited. Based on a review of Sanborn Fire Insurance Maps, the property was historically part of The Boott Mills Cotton Goods Manufacturer, and may have been operated as a wooden box manufacturer, symphonic radio and electronics corporation, cleaners, container corporation, clothing manufacturer, silver flatware manufacturer, plastic food containers manufacturer, machine and engineering shop, graphite manufacturer, chemical and mineral development corporation, electric bug killer manufacturer, welding shop, machine shop, printing shop, electronic assembly shop, silk screen printing shop, vinyl and cotton laminator, filter

manufacturer, bearing manufacturer, and plastic products manufacturer. OHM use associated with historic property usage likely included the use of petroleum products, solvents, cleaners, metals, and paints.

According to records obtained from the Lowell Fire Department on January 15, 1986, a permit was issued for the South Combining, Inc. (Building 5E) for the storage of 550 gallons of laminating resin in 55-gallon drums. On April 30, 1957, a permit was issued for Boott Mills for the above-ground storage of 55 gallons of gasoline. No removal information was available for these storage drums.

During the Phase I ESA, GEC observed the presence of six possible vent pipes exiting the mechanical room on the north side of Building 3, but could not identify the origin of the pipes. A record search at the Lowell Fire Department did not indicate the current or historical presence of any ASTs or USTs.

During the Phase I ESA Site inspection, GEC made observations for equipment likely to contain PCB oil. Equipment likely to contain PCB oil includes electrical transformers, capacitors, hydraulic equipment and oil switches. Dry-type transformers typically do not contain PCBs. In the West Courtyard, GEC observed a rusted transformer mounted on the second floor exterior wall of Building 5. GEC reviewed a Registry of Deeds plan dated January 12, 1988 that indicates pad mounted electrical transformers were located on the north side of Building 5 along the Merrimack River. GEC was not able to access this area.

Current storage of OHM on the property includes water conditioning agent (assumed to be used to treat water fed into the boilers) and consumer quantities of paints and cleaners.

5.4 Waste Management History

Records of historic hazardous waste, waste oil or wastewater disposal practices at the property are limited. Sanitary waste was historically and is currently discharged to the sanitary sewer system. GEC did not identify any permits associated with waste disposal for the property.

No hazardous waste, waste oil or industrial wastewater is currently generated at the property.

5.5 Environmental Permits and Compliance History

In addition to the compliance history for RTN 3-26688 discussed above, below is a summary of releases known to have occurred at the property (based on Site address). Based on a review of state and federal databases accessed during an Environmental FirstSearch run through FirstSearch Technology Corporation's database program, below, please find a description of releases and permits pertaining to the property. Because the property was historically part of a larger property historically identified as Boott Mills it is difficult to determine which releases occurred on the current property.

State Disposal Site 3-26688. In November 2006, a release of PCBs was discovered in the exterior (eastern) courtyard. A RAM Plan was submitted to MADEP on December 8, 2006. The presence of PCBs in soils at levels greater than reportable concentrations was reported to MADEP under a 120-day reportable condition on March 20, 2007. PCB impacted soils were excavated under the RAM Plan. A RAM Completion Report was submitted to MADEP on January 29, 2008. On July 17, 2008, MADEP issued a NON to "Boot Cotton Mill Development Corporation", the owner and PRP at the time the release was reported and the NON issued, for not submitting a RAO Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

Below is a summary of releases that potentially could have occurred at the property. Included are releases that include the site address and/or mention of Boot Mills, and do not specify Building number.

State Disposal Site 3-25037. An Immediate Response Action (IRA) Plan was orally approved on July 14, 2005 for a release of less than 50 gallons of Non-PCB transformer oil. The release occurred to the surface water of the Merrimack River. A Class A-1 RAO was submitted to MADEP on September 15, 2005.

State Spill Site N82-5066. A release of approximately 1,500 gallons of No. 6 fuel oil was reported at this location on March 6, 1982. This incident is closed.

State Spill Site N93-0517. A release of an unknown volume of miscellaneous oil was reported on March 4, 1993. No further information is available. This incident is closed.

State Spill Site N88-0506. A release of an unknown volume of No. 6 Fuel Oil was reported at this location on April 8, 1988 due to a ruptured line. No further information is available. This incident is closed.

State Spill N82-5072. A release of an unknown volume of miscellaneous oil was reported at this location on March 12, 1982. No further information is available. This incident is closed.

5.6 Potentially Responsible Parties

The potentially responsible party for this release is as follows:

Boott Properties, LLC
72 Sumner Street
Milford, MA
Attention: Anthony Consigli, Manager

6.0 SITE HYDROGEOLOGICAL CHARACTERISTICS

6.1 Description of Investigations and Assessments

6.1.1 Investigations and Assessments Conducted Prior to GEC's Involvement

Based on the RAM Completion Report, dated January 29, 2008, in November 2006, a release of PCBs was discovered in the exterior (eastern) courtyard by TRC of Lowell, MA. TRC was retained by general contractor Consigli Construction, who observed petroleum odor when advancing test pits in the exterior courtyard. When the contamination was discovered, the property was owned by Boott Cotton Mills Development, LLC, a party that was unrelated to the current owner/filer. ECS, submitted a RAM Plan to the MADEP on December 8, 2006, providing details on the planned excavation of PCB-contaminated soils. The presence of PCBs in soils at a level (22.73 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg) was reported to the MADEP as a 120-day reportable condition on March 20, 2007. Benzo(a)pyrene was also

detected at a level (6.23 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg); however, it was not reported to MADEP, perhaps because it was present at a level below its published background concentration (7 mg/kg) for soils associated with fill containing coal ash or wood ash. The PCB release condition was assigned RTN 3-26688.

Soil excavation was conducted on March 29 and 30, 2007. Excavated soils were directly loaded onto trucks and transported to Turnkey Landfill in Rochester, New Hampshire. The total amount of soils transported from the disposal site for disposal was 209 tons. On April 5, 2007, nine soil samples were collected from the sidewalls and bottom of the excavation for confirmatory analysis. PCB levels ranged from none detected to 6.15 mg/kg. PCBs, PAHs and lead were detected at levels above Method 1 S-1 standards. No separate release notification appears to have occurred for the PAHs and lead. On April 30, 2007, the excavation was backfilled with clean soils and gravel. ECS submitted a RAM Completion Report to the MADEP on January 29, 2008, on behalf of Boott Cotton Mill Development Corporation. At the time the RAM Completion Report was submitted, the property owner was Boott Cotton Mills Development, LLC. Presumably, Boott Mill Development Corporation and Boot Cotton Mills Development, LLC were affiliates. A stormwater management system was installed in the excavated area subsequent to the RAM. Presumably no RAM Plan was needed because the work was done within the clean backfill.

On July 17, 2008, MADEP issued a NON to "Boot Cotton Mill Development Corporation" for not submitting a RAO Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

6.1.2 Investigations and Assessments Conducted by GEC

GEC conducted two separate rounds of subsurface investigation activities at the disposal site over the course of several months during the summer and fall of 2011. Given their different purposes, the initial and subsequent rounds of investigations are described separately.

Initial Investigation Activities

GEC's initial round of investigation consisted of the advancement of seven test borings to or beneath the water table or to boring refusal within both the exterior and enclosed courtyards, with four completed as groundwater monitoring wells; the collection of soil samples from all seven borings; and the collection of groundwater samples from all four installed groundwater monitoring wells. The exterior courtyard is paved with asphalt and currently used for resident and guest parking, while the enclosed courtyard is covered with concrete slabs and currently used as a recreation or storage area for tenants. Soil and groundwater samples from this round of investigation were submitted under chain of custody to Groundwater Analytical, Inc. (GWA) of Buzzards Bay, Massachusetts for laboratory analysis; GWA was a state-certified laboratory at that time, but currently is no longer in business. Refer to Figure 2 for a Site Plan depicting test boring and monitoring well locations.

Test Borings, Soil Screening, and Monitoring Well Installation

On June 6, 2011 New England Geotech, LLC (NEG), under the supervision of GEC personnel, advanced seven test borings (B-1 to B-7). Borings B-1 to B-5 were advanced to or beneath the water table within the exterior courtyard located on the east side of the property building within the area of disposal site (RTN 3-26688). The remaining two borings, B-6 and B-7, were advanced within the enclosed, western courtyard beneath a wall-mounted transformer (B-6) and in the vicinity of a former repair shop as depicted on historic Sanborn Maps (B-7).

Borings advanced in the exterior courtyard were advanced to a depth between 10-18 feet below surface grade (BSG) using a truck-mounted, direct-push GeoProbe® drill rig. Soil samples were collected continuously utilizing clean 5-foot acetate sleeves inside hollow steel rods. A new, clean, acetate sleeve was used for each sample collected. Borings in the enclosed courtyard were advanced to a depth between 6.5 and 12 feet BSG using manual Geoprobe® soil sampling equipment driven by a jackhammer. Soil samples were collected utilizing clean 2-foot acetate sleeves inside hollow steel rods. Soils within the exterior courtyards consisted of a grading layer approximately 6 to 12 inches thick of sandy gravel immediately beneath the paved surface of the courtyard. Beneath the grading layer soils became sandy with fill materials, including brick, coal, coal ash and fly ash extended to a depth of approximately 5 to 6 feet BSG. Below the layer with fill material, soils consisted of sands, silt, and some gravel and cobbles with only trace

amounts of brick and coal. Soil from each sampling interval was headspace screened for total ionizable compounds using a photoionization detector (PID) equipped with a 10.6 eV lamp. PID readings of soil headspace samples ranged between 0.0 and 1.5 parts per million (ppm). During test boring activities the apparent water table was encountered at approximately 10 to 16 feet BSG.

Soils within the enclosed courtyard consisted primarily of sand with the top six feet containing fill material consistent with those found in the exterior courtyard. For instance, brick, coal, coal ash and fly ash were observed in both borings advanced within the enclosed courtyard. Additionally, some rusted metal pieces were found in B-6 within the top 4 feet. Soil from each sampling interval was headspace screened for total ionizable compounds using a PID equipped with a 10.6 eV lamp. PID readings of soil headspace samples were not detected above background levels (0.0 ppm). During test boring activities the apparent water table was encountered at approximately 10 feet BSG.

Monitoring wells were installed in borings B-2, B-4, and B-5 and were designated GEC-1, GEC-2 and GEC-3, respectively. These monitoring wells were constructed of ten feet of 2-inch I.D Schedule 40 PVC ten-slot (0.010" slots) screen and six to eight feet of riser for a total depth of approximately 16 to 18 feet BSG. The borings were backfilled with clean silica sand to approximately two feet above the screen, followed by a bentonite seal and sand fill to the surface. The top six-inches of the well annulus were backfilled to grade with concrete. Each well was secured at the surface with a flush-mounted road-box casing.

On June 8, 2011, GEC personnel returned to the disposal site to advance another boring immediately adjacent to B-7 to install a monitoring well. The monitoring well was installed after initial drilling activities were completed, because NEG did not have any 1-inch well material on June 6. GEC advanced manual Geoprobe® equipment to approximately 14 feet BSG at B-7 in order to install a monitoring well constructed with five feet of 1-inch I.D. Schedule 40 PVC ten-slot (0.01" slots) screen and nine feet of riser for a total depth of approximately 14 feet BSG. The boring was backfilled with clean silica sand to approximately two feet BSG, followed by a bentonite seal and then filled to the surface with sand. The top four inches of the well annulus were backfilled with cement and the well was secured at the surface with a flush-mounted road-box casing. The monitoring well installed in B-7 was designated GEC-4.

To ensure an acceptable hydrologic connection between each well and surrounding substrata and to remove fines, all four wells were developed using a peristaltic pump on June 8, 2011. At least three well volumes were removed from each of the newly installed wells during development. Please refer to Figure 2 for a Site Plan depicting all boring and monitoring well locations; additionally, refer to the Boring Logs in Appendix B for other test boring and monitoring well installation information.

Soil Sampling

On June 6, 2011 GEC collected one or more soil samples from all seven test borings; samples were collected from the sampling interval near the surface and/or the sampling interval at the soil interface with the water table. Soil samples were submitted to GWA for the following laboratory analyses: extractable petroleum hydrocarbons (EPH) with target PAHs via the MADEP Method, PCBs via USEPA Method 8082, and Massachusetts 14 (MA14) metals method via USEPA Methods 6010B and 7471A. Please refer to the table below for a summary of those soil samples collected for laboratory analysis and the sample depths BSG. The laboratory certificates are attached in Appendix E.

Boring ID	Sample Depth (ft.)	EPH w/ PAHs	PCBs	MA14 Metals
B-1	1 -5	X	X	X
	10-15	X	X	X
B-2	0-3	X	X	X
	15-20	X	X	X
B-3	5-10	X	X	X
B-4	2-5	X	X	X
	12-15	X	X	X
B-5	10-15	X	X	X
B-6	0-4	X	X	X
B-7	8-10	X	X	X

Groundwater Sampling

On June 15, 2011 GEC gauged the depth to groundwater, which ranged from 10.07 to 16.15 feet BSG. After gauging, GEC attempted to collect groundwater samples from each of the four newly installed wells (GEC-1 to GEC-4) using a bladder pump with a disposable bladder; however, the water level was too low in GEC-1 and GEC-2 to allow for sampling with a bladder pump. As a result, GEC-1 and GEC-2 were purged and sampled using disposable bailers. GEC-3 and GEC-4 had enough water to allow for

sampling using low-flow protocol with a bladder pump. Groundwater samples were submitted to GWA for laboratory analysis of one or more of the following: volatile organic compounds (VOCs) via USEPA Method 8260B, EPH with target PAHs via the MADEP Method, PCBs via USEPA Method 8082, and dissolved (MA14) metals via USEPA 6010B and 7471A. Samples collected for dissolved metal analysis from GEC-3 and GEC-4 were filtered in the field using a 0.45µm filter prior to preservation; however, the samples from GEC-1 and GEC-2 could not be filtered in the field, as the samples were collected by bailers. The samples were filtered by GWA upon receipt at the laboratory and then preserved. Please refer to the table below for a summary of those groundwater samples collected for laboratory analysis. The laboratory certificate of analysis is attached in Appendix E.

Well ID	Screen Depth (ft.)	VOCs 8260B	MA14 Metals	EPH w/ PAHs	PCBs
GEC-1	7-17		X	X	X
GEC-2	8-18		X	X	X
GEC-3	6-16		X	X	X
GEC-4	9-14	X	X	X	X

Additional Investigation Activities

GEC's additional environmental investigation consisted of the advancement of six test borings to the water table or boring refusal in the eastern portion of the disposal site; the completion of three borings as groundwater monitoring wells; the advancement of three shallow test borings within the enclosed courtyard; the collection of soil samples from all nine test borings; the collection of groundwater samples from four monitoring wells; the installation of two permanent soil vapor points (SVPs); and the collection of soil vapor samples from both SVPs. Soil, groundwater and soil vapor samples from this round of investigation were submitted under chain of custody to either Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts or Alpha Analytical, Inc. (Alpha) of Westborough, Massachusetts for laboratory analysis; both labs are state-certified laboratories. The laboratory previously used for analytical services related to this project had recently closed; as a result, the above-mentioned laboratories were used to provide analytical services for this round of sampling. Refer to Figure 2 for a Site Plan depicting test boring, monitoring well and soil vapor point locations.

Test Borings, Soil Screening, and Monitoring Well Installation

On September 1, 2011 NEG, under the supervision of GEC personnel advanced six test borings (B-8 to B-13). Borings B-8 to B-12 were advanced within the exterior courtyard located on the east side of the property building within the area of disposal site RTN 3-26688. The remaining boring, B-13, was advanced to the north of the property building in the grass area adjacent the Merrimack River.

Borings were advanced to depths between 6.5 and 15 feet BSG using a track-mounted, direct-push GeoProbe® drill rig in the same manner as the initial investigation. Soils encountered during this round of investigations in the exterior courtyard were consistent with the description of soils from the first round. Also soils from B-13 located in the grass area north of the building were consistent, for GEC observed sand with fill material overlying natural sands and gravels. Soil from each sampling interval was headspace screened for total ionizable compounds using a PID equipped with an 11.7 eV lamp. A higher eV lamp was used during this investigation round in order to include a wider range VOCs in the PID readings. Due to the detection of PCBs in groundwater during the initial round of investigation, the presence of VOCs in groundwater was investigated, because VOCs may cause PCBs to dissolve in groundwater via co-solution. PID readings of soil headspace samples were non-detect during this round. During test boring activities the apparent water table was encountered at approximately 10 feet BSG.

Monitoring wells were installed in borings B-10, B-12, and B-13 and were designated GEC-5, GEC-6 and GEC-7, respectively. These monitoring wells were constructed with ten feet of 2-inch I.D Schedule 40 PVC ten-slot (0.010" slots) screen and two to seven feet of riser for a total depth of approximately 12 to 17 feet BSG. The borings were backfilled with clean silica sand to approximately two feet above the screen, followed by a bentonite seal and sand fill to the surface. The top six-inches of the well annulus were backfilled to grade with concrete. Each well was secured at the surface with a flush-mounted road-box casing.

To ensure an acceptable hydrologic connection between the well and surrounding substrata and to remove fines, all three wells were developed using a peristaltic pump on September 2, 2011. At least three well volumes were removed, if the well was not purged dry, from each of the newly installed wells during development. Please refer to Figure 2 for a Site Plan depicting all boring and monitoring well locations; additionally, refer to the Appendix B for the Boring Logs.

Shallow Test Borings

On September 13, 2011 GEC personnel advanced three shallow borings adjacent to the existing boring B-6 in the enclosed courtyard to depths between 2and 6 feet BSG using manual Geoprobe® soil sampling equipment in the same manner as described above, with the exception that the sampling rods were driven by a manual slide hammer and not a jackhammer. The borings, designated B-6A, B-6B and B-6C, were advanced five feet from B-6 to the west, south and east, respectively. This sampling pattern attempted to establish the extent of lead contamination detected at B-6. Soil samples were not headspace screened for TICs and groundwater was not encountered. Soil consisted of sand with fill material like coal and coal ash, similar to soil observed in B-6; however, no rusted metal pieces were observed during this round of sampling.

Soil Vapor Point Installation

On September 2, 2011, GEC installed two permanent SVPs in order to evaluate the potential impact of PCB contamination in the exterior courtyard on soil gas in the vicinity of the adjacent Mill buildings. One SVP was installed inside the portion of Mill building #3 to the southwest of GEC-2 and was designated SV-1. SV-1 was installed according to GECs Standard Operating Procedures (SOPs) through the concrete slab floor of the room located adjacent the southwest corner of the courtyard. The soil vapor point consisted of a ½-inch PVC threaded adapter with aluminum cap, single-holed rubber stopper, and polyethylene tubing. Prior to installing the SVP, GEC screened the open hole with an 11.7 ev PID and the reading was non detect. The point was sealed in place with hydraulic cement and closed with a threaded aluminum cap. A second SVP was installed within the courtyard (outside) adjacent to the south wall of Mill building #5, immediately north of GEC-1; this SVP was designated SV-2. SV-2 was installed outside because GEC was not able to install a SVP inside the private residential units of Mill Building #5, north of the courtyard. SV-2 was installed through the asphalt paved surface of the courtyard and consisted of 6 inches of 1-inch PVC well screen with 6 inches of solid PVC riser. The point was installed to a depth of approximately 1 foot BSG, clean sand placed around the screen and the hole was backfilled with existing soils as needed. A road box was placed over the SVP and the annular space around the PVC point within the road box was sealed with hydrated bentonite and then cement. The outside of the road box was also sealed with cement and was set flush with the surface grade. Please refer to Appendix F, Soil Vapor Point Profile for a depiction of both interior and exterior

permanent SVP's construction. The SVP locations can be found on the Site Plan provided as Figure 2.

Soil Sampling

On September 1, 2011 GEC collected one or more soil samples from the six test borings B-8 to B-13; samples were collected from predetermined sampling intervals. Soil samples were submitted for analysis of one or more of the following laboratory analyses: PAHs via the USEPA 8270C Method, PCBs via USEPA Method 8082, VOCs via USEPA 8260B, and MA14 metals via USEPA Methods 6010B and 7471A. On September 13, 2011 GEC collected one soil sample from all three shallow soil borings B-6A, B-6B, and B-6C from predetermined intervals. Soil samples were submitted for lead analysis via USEPA Method 6010B. Please refer to the table below for a summary of those soil samples collected for laboratory analysis and the sample depth BSG. The laboratory certificates of analysis are included in Appendix E.

Boring ID	Sample Depth (ft.)	PAHs	PCBs	VOCs	Metals
B-8	0-1		X		
	1-3		X		
	0-3	X		X	X
	5-10	X	X	X	X
	10-15			X	
B-9	0-1		X		
	1-3		X		
	0-3	X		X	X
B-10	0-3	X	X		X
	3-6		X		
B-11	0-3	X	X	X	X
	3-6		X		
B-12	0-3	X	X		X
	3-6		X		
B-13	0-3	X	X		X
	3-6		X		
B-6A	0-2				X
B-6B	0-4				X
B-6C	0-4				X

Groundwater Sampling

On September 7, 2011 GEC attempted to collect groundwater samples from four wells on the property: GEC-1, GEC-2, GEC-6, and GEC-7. Prior to sampling GEC

gauged the depth to groundwater in all accessible wells in the eastern portion of the property (GEC-2 was covered by ponded water and was not gauged or sampled). The depth to water ranged from approximately 13 to 15.5 feet BSG. GEC attempted to collect groundwater samples using a bladder pump with disposable bladders; however, the water level was too low in GEC-6 and GEC-7 to allow for sampling with a bladder pump. GEC-1 had enough water to allow for sampling using low-flow protocol with a bladder pump.

On September 12, 2011 GEC returned to the property to collect the remaining groundwater samples from GEC-2, GEC-6, and GEC-7. Again, GEC gauged the depth to groundwater in all wells in the eastern portion of the property; the depth to water ranged from 11.7 to 14.2 feet BSG. GEC-2 and GEC-6 were able to be sampled in the same manner as GEC-1, but again GEC-7 did not have enough water after purging to enable the collection of a sample using the bladder pump. On September 13, GEC attempted to collect samples from GEC-7 using a disposable bailer. Only a small amount of water could be collected over the course of the day, so there was not enough sample volume to submit samples for all of the desired analyses.

Groundwater samples were submitted to Alpha for laboratory analysis of one or more of the following: VOCs via USEPA Method 8260B, volatile petroleum hydrocarbons (VPH) via the MADEP Method, total and dissolved PAHs via the USEPA 8270C Method, total and dissolved PCBs via USEPA method 8082, total and dissolved lead via USEPA 6010B, and hardness via the SM18-20 2340B method. Samples collected with the bladder pump and submitted for dissolved phase analysis were filtered in the field using a 0.45µm filter prior to preservation. Please refer to the table below for a summary of those groundwater samples collected for laboratory analysis. The laboratory certificates of analysis are included in Appendix E.

Well ID	Screen Depth (ft.)	Total PCBs	Diss. PCBs	Total Lead	Diss. Lead	Hard-ness	Total PAHs	Diss. PAHs	VOCs 8260B	VPH
GEC-1	7-17	X	X	X	X	X	X	X	X	X
GEC-2	8-18	X	X				X	X	X	X
GEC-6	6.5-16.5	X		X	X	X			X	X
GEC-7	3-13	X							X	

Monitoring Well Survey

On September 13, 2011 GEC conducted an elevation survey of all monitoring wells on the property to calculate groundwater elevation contours. GEC used the southern corner of the rim for the catch basin associated with the storm water system located 20 feet (ft.) northwest of GEC-3 to establish a survey benchmark with the assumed elevation of 100 ft. Due to the close proximity of the property to the Merrimack River the groundwater table across the property fluctuates in accordance with the water level of the river. GEC roughly correlated the relationship of the groundwater table at the property and the water level of the river by comparing well gauging data to the gauge height of the river at that time. Provisional stream flow data was obtained online from a United States Geological Survey gauging station (USGS 01100000) located approximately 1/3 miles downstream of the property. Regardless, groundwater on-Site generally flows to the north toward the river. Please refer to Figure 3, the Groundwater Contour Plan, for a depiction of groundwater flow and Table 4 for a summary of the groundwater elevation data.

Soil Vapor Sampling

Over the course of three days on September 12 to 15, 2011, GEC collected soil vapor samples from SV-1 and SV-2 for PCB analysis via the USEPA TO-10A Method. GEC used polyurethane foam (PUF) cartridges supplied by Con-Test and an SKC personal air pump fitted with an inline flow restrictor to continuously sample SV-1 and SV-2 for approximately 68.5 hours and 69.2 hours, respectively, at flow rates of approximately 200 milliliters per minute (mL/min). Given the low flow rates required for soil vapor sampling, GEC conducted the sampling over an extended period of time in order to obtain a sample volume that would enable the laboratory to attain detection limits sufficiently low enough to support a risk assessment.

GEC inserted tubing into the SVP and sealed the top of the point with modeling clay around the sample tubing. The sample tubing from the SVP was connected to the inlet side of the SKC air pump via flex tubing. Tubing with an inline screw valve flow restrictor was connected to the outlet side of the pump in order to control the purge rate. Using a Bios DryCal flow meter to measure flow rates, GEC adjusted the flow from the pump prior to initiating the sampling. The outlet tubing from the pump was connected to Teflon tubing fixed with a brass compression fitting on the end which then connected to the large end of the PUF cartridge. This set-up allowed GEC to monitor and regulate

flow rate through the PUF cartridge, while maintaining an accurate count of the sample duration. Periodically, GEC personnel measured the temperature, barometric pressure, flow rate, and elapsed time at each location during sampling. Temperature and barometric pressure were obtained and recorded in the field using a digital meter and flow readings were taken from the outlet side of the PUF cartridge using the Bios DryCal meter. GEC observed very little flow restriction through the PUF cartridge, and occasionally adjusted the flow rate as needed during sampling to maintain a flow rate as close to 200 mL/min as possible. The average flow rate and volume purged for SV-1 was 200.3 mL/min and 834.1 liters (L), while the flow rate and volume purged for SV-2 was 198.6 mL/min and 816.4 L. Field readings are documented in the SVP Field Test Data Sheet included in Appendix G. One field blank was collected by exposing a third PUF cartridge to the ambient air during the entire duration of soil vapor sampling. The field blank was treated the same as the two samples with the exception that no air was pumped through the cartridge. All three samples were sent to Con-Test under chain of custody documentation; the laboratory certificate of analysis is included in Appendix E.

6.2 General Site Topography

The disposal site is located on the Lowell Massachusetts USGS quadrangle at UTM coordinates 4724354 meters north and 310807 meters east. The disposal site is situated at approximately 70 feet above Mean Sea Level and total relief across the property is less than ten feet.

Flood zone maps for Lowell (Panel No. 250201 0004D dated September 30, 1992) indicate the property is located in an area located within a 100-year flood zone (Xone AE).

Several physiographic features surround the property. The Merrimack River abuts the northern boundary of the property and flows northwest to the southeast along the property. The Eastern Canal is located approximately 200 feet to the southwest of the property. The Eastern Canal connects to the Concord River via the Pawtucket Canal located approximately 1,500 feet south of the property. The Concord River, which flows south to north, flows into the Merrimack River approximately 1,500 southeast of the property.

6.3 Geologic and Stratigraphic Conditions

Based on a review of boring logs and observations made by GEC personnel during drilling activities, it appears that a layer of fill material is located across most of the disposal site. As topography is generally flat across the property, the thickness of the fill is also relatively uniform, generally ranging from six to ten feet. Fill observed on-Site consists of brown, gravelly sand with coal, coal ash, gasified coal pieces, brick, metal pieces and glass.

The fill material overlies natural soils, whose characteristics are also uniform. In most areas, natural soils consist of brown sand with trace to little amounts of silt.

According to the USGS Bedrock Geologic Map of Massachusetts, the disposal site is underlain by the Berwick Formation within the Merrimack Belt Zone. This formation is a Silurian that consists of thin to thick bedded metamorphosed calcareous sandstone, siltstone and covite schist. No bedrock wells were installed during Phase I subsurface investigations. Overburden wells installed to depths of fifteen to eighteen feet BGS were terminated prior to refusal. Depth to bedrock at the disposal site is greater than the depth of the deepest boring, i.e., eighteen feet BGS.

6.4 Groundwater Flow Direction

GEC measured the depth to groundwater in the monitoring wells on June 8, 2011, June 15, 2011, September 2, 2011, September 7, 2011 and September 12, 2011. Please refer to a summary of the groundwater elevation data in Table 4.

On September 13, 2011 GEC conducted an elevation survey of all monitoring wells at the property to calculate groundwater elevation contours. GEC used the southern corner of the rim for the catch basin associated with the storm water system located 20 feet (ft.) northwest of GEC-3 to establish a survey benchmark with the assumed elevation of 100 ft. Due to the close proximity of the property to the Merrimack River the groundwater table across the property fluctuates in accordance with the water level of the river. GEC roughly correlated the relationship of the groundwater table at the property and the water level of the river by comparing well gauging data to the gauge height of the river at that time. Provisional stream flow data was obtained online from a United States Geological Survey gauging station (USGS 01100000) located approximately 1/3 miles downstream of the property. Regardless, groundwater on-Site generally flows to the

north toward the river. Please refer to Figure 3, the Groundwater Contour Plan, for a depiction of groundwater flow.

Based on a review of boring logs, the groundwater flows through natural soils consisting of brown sands with trace to little amounts of silt for the most part. The disposal sites soil permeability is assumed to be 10E-2 cm/s, based on permeability values published in *Groundwater* authored by R. Allan Freeze and John A. Cherry. Therefore, when scoring the disposal site hydrogeology, soil permeability was considered high.

7.0 NATURE AND EXTENT OF CONTAMINATION

7.1 Evidence of Releases

Contaminants detected at the disposal site can be broadly classified into two classes: (1) contaminants associated with a release from a wall-mounted transformer formerly located on the northern side of the exterior courtyard (PCBs); and (2) contaminants associated with historic operations at the property (EPH, metals and PAHs). Both classes of contaminants are collectively referred to as "historical contamination". In addition, fill at the property contains coal ash, which is considered a background condition. Coal ash can be a source of metals and PAHs detected at the disposal site.

For the purpose of site scoring, one contaminant source, related to historic operations, is present. GEC understands that in order to properly identify contaminant conditions for the purpose of risk characterization all contaminants within the disposal site will require evaluation and characterization.

7.2 Identification and Magnitude of Release Oils and / or Hazardous Materials

Based on current use of a portion of Mill Building #5 as residences, the appropriate soil category is S-1, presuming that the ground surface is either paved or not paved, and children use the property recreationally. Based on the Site Scoring Map, attached as Figure 4, the disposal site is not located within a Current or Potential Drinking Water Source Area; therefore groundwater category GW-1 does not apply. Since the disposal site is occupied by a building and the depth to groundwater is less than 15 feet the Groundwater Category GW-2 applies, and GW-3 applies to all sites. Therefore,

Method 1 Standards currently applicable to the disposal site are S-1/GW-2, S-1/GW-3, GW-2 and GW-3.

The maximum concentration of each OHM detected in soils and groundwater are provided in the following tables. Contaminants detected in soils above applicable Method 1 S-1/GW-2 and S-1/GW-3 standards include benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, dibenzo[a,h]anthracene, total PCBs, total chromium, total lead and total nickel. Each of these OHM were detected in at least one soil sample at a level greater than its MADEP-published background concentrations for soils associated with fill containing coal ash or wood ash.

Contaminants detected in groundwater above applicable Method 1 GW-2 and/or GW-3 standards for all sampling events conducted to date included total lead, dissolved lead and total PCBs. No PCBs were detected above the reportable detection limits in the soil vapor samples. The groundwater, soil and soil vapor data are summarized in Tables 1.1 to 1.5, 2.1 to 2.3 and 3, respectively.

The following tables summarize the maximum and minimum concentrations for each contaminant detected in soil and groundwater for all sampling events conducted by GEC to date on the disposal site.

Summary of Soil Maximum and Minimum Concentrations

Constituent	Maximum Concentration (mg/kg)	Minimum Concentration (mg/kg)
n-C19 to n-C36 Aliphatic Hydrocarbons	610	<23
n-C11 to n-C22 Aromatic Hydrocarbons	560	<23
Phenanthrene	17	<0.22
Acenaphthene	1.1	<0.28
Fluorene	1	<0.35
Anthracene	4.5	<0.21
Acenaphthylene	1.1	<0.28
Naphthalene	0.47	<0.35
Fluoranthene	24	<0.22
Pyrene	19	0.22
Benzo[a]anthracene	9.8	<0.22
Chrysene	11	<0.22
Benzo[b]fluoranthene	8.7	<0.22
Benzo[k]fluoranthene	8.1	<0.22
Benzo[a]pyrene	9.8	<0.3
Indeno[1,2,3-c,d]pyrene	6.0	<0.3
Dibenzo[a,h]anthracene	1.2	<0.21
Benzo[g,h,i]perylene	5.8	<0.3
Aroclor 1248	60	<0.036
Aroclor 1254	64	<0.036
Total PCBs	124	<0.1
Antimony, Total	4.6	<1.2
Arsenic, Total	9.1	2.7
Barium, Total	410	20
Beryllium, Total	0.51	<0.32
Cadmium, Total	1.3	<0.41
Chromium, Total	48	8.6
Lead, Total	1,800	5.1
Mercury, Total	2.5	<0.02
Nickel, Total	48	6.2
Vanadium, Total	47	13
Zinc, Total	220	32

Summary of Groundwater Maximum and Minimum Concentrations

Constituent	Maximum Concentration (ug /L)	Minimum Concentration (ug /L)
n-C19 to n-C36 Aliphatic Hydrocarbons	190	<110
n-C11 to n-C22 Aromatic Hydrocarbons	160	<110
Phenanthrene	1.1	<0.2
Fluoranthene	2.1	<0.2
Pyrene	2.0	<0.2
Benzo[a]anthracene	1.0	<0.1
Chrysene	0.9	<0.1
Benzo[b]fluoranthene	1.3	<0.1
Benzo[k]fluoranthene	0.5	<0.1
Benzo[a]pyrene	1.1	<0.1
Indeno[1,2,3-c,d]pyrene	0.9	<0.1
Dibenzo[a,h]anthracene	0.2	<0.1
Benzo[g,h,i]perylene	0.7	<0.1
Barium, Dissolved	100	<50
Lead, Dissolved	12	<5
Lead, Total	71	<10
Aroclor 1248	4.5	<0.2
Aroclor 1254	3.3	<0.2
Total PCBs	7.8	<0.2
Acetone	11	<10

Exterior (eastern) Courtyard

Soil Data

Several PAH constituents were detected above their reported detection limits (RDL) in one or more samples submitted for analysis. The majority of the PAH constituents detected above the RDL were detected at concentrations below their respective MADEP-published background concentrations and / or category S-1/GW-2 and S-1/GW-3 standards except for the following four PAHs: benzo(a)anthracene; benzo(b)fluoranthene; benzo(a)pyrene and dibenzo(a,h)anthracene. One or more of these four PAHs were detected in samples B-4 2-5 ft and B-8 5-10 ft at levels above both applicable background concentrations and Method 1 S-1 standards. For the 2-5 ft interval of B-4, fly ash, coal and gasified coal were observed in the soil recovery. For the 5-10 ft interval of B-8, coal and coal ash were observed in the soil recovery. All four PAHs mentioned above were found at concentrations slightly higher than the MADEP's background concentrations in samples B-4 2-5 ft and B-8 5-10 ft. These borings are located in the southwest corner of the exterior courtyard. PCBs were detected in the B-4 2-5 ft soil sample, but not in the B-8 5-10 ft soil sample. PCBs can be associated with

combustion byproducts; therefore, the presence of these PAHs in the B-4 2-5 ft soil sample cannot be solely attributed to coal ash.

EPH subsets C19-C36 aliphatic hydrocarbons and C11-C22 aromatic hydrocarbons were detected in soils at levels below Method 1 S-1/GW-2 and S-1/GW-3 standards. No VOCs were detected in any soil sample.

PCBs (Aroclor 1248 and/or 1254) were detected above their RDL in 11 of 22 samples submitted for analysis. Six of the eleven samples exceed the Method 1 S-1/GW-2 and S-1/GW-3 standards (2 mg/kg each) with reported concentrations ranging between 3.32 and 124 mg/kg. The maximum concentration of 124 mg/kg was detected in soil sample B-4 2-5ft, located in the southwest corner of the courtyard. The elevated level of total PCBs in this soil sample exceeds the Upper Concentration Limit (UCL) of 100 mg/kg.

Eleven of fourteen metals were detected above RDLs. Of these metals, only lead, chromium and nickel were detected at levels above both Method 1 S-1 soil standards and applicable published background concentrations. The soil samples with elevated lead (three samples), chromium (one sample) and / or nickel (two samples) concentrations were detected from the 0-3 foot interval (surface soil). Deeper soil samples had levels of metals consistent with background concentrations. Chromium was detected in two surface soil samples (34 and 48 mg/kg) at a level above its Method 1 S-1/GW-2 and S-1/GW-3 standards (30 mg/kg, each). Nickel was detected in two surface soil samples (41 and 48 mg/kg) at levels above its Method 1 S-1/GW-2 and S-1/GW-3 standards (20 mg/kg each). Lead was detected in three surface soil samples at levels (620, 1,400 and 1,800 mg/kg) above its Method 1 S-1/GW-2 and S-1/GW-3 standards (300 mg/kg each).

Please refer to Tables 2.1 to 2.3 for a summary of the soil analytical data.

Groundwater Data

Two EPH carbon chains and several PAH constituents were detected above their RDL in one or more groundwater samples collected from the exterior courtyard wells (GEC-1, GEC-2, and GEC-3). During round 1, groundwater samples had to be collected from GEC-1 and GEC-2 using a bailer instead of a bladder pump, due to low water levels in the wells. The use of a bailer can result in turbid samples and elevated levels of OHM that tend to bind to soils. The groundwater samples collected from GEC-1 and GEC-2 had elevated levels of PAHs. During round 2, groundwater samples were collected from

GEC-1 and GEC-2 using a bladder pump, for analysis of total and dissolved PAHs. For GEC-1, much lower levels of PAHs were detected in the unfiltered samples in round 2 using the bladder pump than in round 1 using the bailer. No PAHs were detected in the unfiltered sample for GEC-2. No PAHs were detected in the filtered samples for GEC-1 or GEC-2. These results suggest the PAHs are adsorbed to soil particles and are not migrating as dissolved-phase contamination within the water column. Therefore, an impact to the Merrimack River from migration of dissolved-phase PAHs is unlikely to occur. Because the detected PAHs are not readily volatile, no Method 1 GW-2 standards exist for these PAHs.

During round 1, groundwater samples were collected from GEC-1, GEC-2, GEC-3 and GEC-4 for analysis of EPH. EPH was detected in GEC-1 and GEC-2 at levels below applicable Method 1 GW-2 standards, when available. However, the levels of C11-C22 aromatic hydrocarbons detected are likely elevated due to the sampling method. No EPH subset was detected in the groundwater sample from GEC-3 or GEC-4, which were collected using a bladder pump. During round 2, groundwater samples were collected from GEC-2 and GEC-6 for analysis of VPH; no VPH subsets were detected in either sample.

Only one VOC (acetone) was detected above its RDL in one of five samples submitted for analysis. Acetone was detected in GEC-7 at a very low concentration, well below the applicable GW-2 standard and surface water benchmark.

During round 1, PCBs (Aroclor 1248 and 1254) were detected above its RDL in two samples (GEC-1 and GEC-2) out of the four samples (also GEC-3 and GEC-4) submitted for analysis. Total PCB concentrations in GEC-1 and GEC-2 during the June 2011 sampling round were 5.1 and 7.8 µg/l, respectively, and exceed the applicable GW-2 standard of 5µg/l. However, these two groundwater samples were collected by bailing, instead of by low-flow technique. During round 2, groundwater samples were collected by low-flow technique from GEC-1 and GEC-2 for analysis of total and dissolved PCBs. Total Aroclor 1254 was detected in GEC-2 at a concentration of 0.43 ug/l, which is below the Method 1 GW-2 and GW-3 standards of 5 and 10 ug/l respectively. No total PCBs were detected in groundwater of GEC-2 and no dissolved PCBs were detected in groundwater of either GEC-1 or GEC-2. In addition, groundwater samples collected from GEC-6 and GEC-7 contained no detectable total PCB. The presence of PCBs in unfiltered groundwater samples is likely associated with suspended soil particulates in the groundwater samples. The lack of detectable PCBs in filtered groundwater samples

indicate that dissolved-phase PCBs are not present in groundwater. The lack of significant VPH and VOC contamination in groundwater indicates that OHM that may result in the co-solution of PCBs are not present in groundwater. Based on the foregoing, PCB is unlikely to migrate in groundwater to the Merrimack River or associated canals.

Two trace metals, i.e., barium and lead, were detected above their RDL in the GEC-1 groundwater sample submitted for laboratory analysis during round 1. Barium was detected in GEC-1 at a concentration of 100 µg/l.. Lead was detected at a concentration of 12 µg/l. During round 2, groundwater samples were collected from GEC-1 for analysis of total and dissolved lead. Total lead was detected at a concentration of 71 ug/l and no dissolved lead was detected, suggesting that contaminants are adsorbed to soil particles and are not migrating within the water column.

Please refer to Tables 1.1 to 1.5 for a summary of the groundwater analytical data.

Soil Vapor Data

No PCBs were detected above their RDL in either of the two samples collected from SV-1 and SV-2, or the field blank. The RDL was 0.048 micrograms per cubic meter ($\mu g/m^3$) for each Aroclor, which is sufficiently low to evaluate its presence in soil vapor. Therefore, insufficient PCB is present in the soil vapor to result in significant vapor intrusion to indoor air. No further investigation of vapor intrusion to indoor air is necessary. Please refer to Table 3 for a summary the soil vapor data.

Enclosed (western) Courtyard

Several PAH constituents were detected above their RDL in one or more samples submitted for analysis. Except for fluoranthene, the PAHs were detected at concentrations below their MADEP-published background concentrations. Fluoranthene was detected at a maximum concentration of 11 mg/kg, which is slightly higher than its published background concentration of 10 mg/kg. .

No PCBs (Aroclor 1248 and/or 1254) were detected above their RDL in the two samples submitted for analysis from the enclosed courtyard. Currently, there is no evidence of a PCBs release in the enclosed courtyard.

Several trace metals were detected in one or more samples at concentrations above laboratory RDLs; however, only lead was detected at concentrations exceeding both its MADEP-published background concentration (600 mg/kg) and its Method 1 S-

1/GW-2 and S-1/GW-3 standards (300 mg/kg each). Lead was detected in all six samples collected for metal or lead analysis in the enclosed courtyard. The concentration of lead in the B-6 0-4 ft sample was 900 mg/kg, which exceeds both its Method 1 S-1 standards and its MADEP-published background concentration. Shallow soil borings B-6A, B-6B, and B-6C were advanced in the vicinity of B-6. Soil samples from the three shallow borings had lead concentrations of 930, 310 and 390 mg/kg, respectively.

7.3 Horizontal and Vertical Extent of Contamination

GEC's subsurface investigation within the exterior courtyard found evidence of residual PCB contamination above the applicable MADEP Method 1 S-1 Standards (2 mg/kg), with one soil sample containing PCB (124 mg/kg) at a level exceeding its UCL (100 mg/kg). Elevated levels of PCB contamination persists in both shallow soils and in soils at depths to 10-15 feet BGS adjacent to the north central portion of the courtyard (south wall of the renovated portion of Mill Building 5); additionally, shallow soils in the southwest corner and eastern portion of the courtyard are impacted with elevated concentrations of PCBs. These sample locations are in the area of disposal site (RTN 3-26688), where PCB contamination was previously documented and partially remediated by ECS under a RAM in 2007. Based on recent subsurface investigations, GEC concludes that the remedial activities conducted by ECS as described in the January 2008 report did not completely address the release of PCBs. The levels of residual PCB contamination are higher than reported in the RAM Completion Report, and the vertical and horizontal extent of contamination is larger. The full extent of PCB contamination in soils is not known at this time, including whether the contamination extends beneath Mill buildings 3 or 5.

PCBs were detected in groundwater collected from GEC-1 and GEC-2 during the initial round of investigation. Due to the small amount of groundwater in each well, the groundwater samples were collected by bailing not by using a bladder pump. During the subsequent round of investigation, groundwater samples were collected using a bladder pump from GEC-1 and GEC-2 for analysis of total and dissolved PCBs, and groundwater samples were collected from downgradient monitoring wells GEC-6 and GEC-7 for total PCB analysis. Only one total PCB, i.e., 1254 Aroclor, was detected in GEC-1 at a concentration below its Method 1 GW-2 and GW-3 groundwater standards during the September 2011 groundwater sampling event. No dissolved PCBs were detected in samples from these monitoring wells. In addition, groundwater samples were collected from GEC-1, GEC-2, GEC-4, GEC-6 and GEC-7 for analysis of VOCs and from GEC-2

and GEC-6 for analysis of VPH. These analyses were done to determine if enough organic contamination exists in groundwater to act as a co-solvent for PCBs in groundwater (i.e., elevated levels of relatively soluble organics in groundwater can increase the solubility of PCBs in water). No VPH was detected in either sample, and little or no VOCs were detected. Based on these results, the presence of dissolved-phase PCBs in groundwater and migration of PCBs in groundwater are not significant issues.

For the exterior courtyard, the concentrations of lead in shallow soils (0-3 feet) collected from borings B-10, B-11, and B-12 exceed the MADEP's background concentrations. These borings are located on both the east and west sides of the exterior courtyard.

Lead was detected (71 ug/l) above its Method 1 GW-3 standard (10 ug/l) in the sample collected from GEC-1 on September 7, 2011 and analyzed for total metals. Yet, no dissolved lead was detected in the filtered sample collected at the same time from GEC-1, thereby suggesting that contaminants are adsorbed to soil particles and are not attributable to dissolved-phase contamination in groundwater.

GEC's investigation in the exterior courtyard also found elevated levels of PAH constituents benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene and dibenzo[a,h]anthracene above their MADEP-published background concentrations and / or category S-1/GW-2 and S-1/GW-3 standards. However, these exceedences were detected in samples obtained from soil recoveries that contained fly ash, coal, gasified coal and / or coal ash. There were only Method 1 exceedences in two samples (B-4 2-5 ft. and B-8 5-10 ft.) that also exceeded MADEP-published background concentrations. The presence of these PAHs at levels slightly exceeding published background concentrations may be attributable to a background condition (i.e., historic coal ash in the fill). However, the highest levels of PAHs were detected in the soil sample with the highest PCB contamination. Therefore, at this time, OHM associated with transformer oil cannot be ruled out as a contributing source of the PAHs.

Chromium was detected in one soil sample and nickel in two soil samples at levels greater then Method 1 S-1/GW-2 standards and slightly greater than background concentrations. Therefore, the volume of soils impacted by chromium and nickel appears to be relatively small.

GEC's investigation within the enclosed courtyard found no evidence of PCB contamination. Barium and fluoranthene were detected in one soil sample at above its

MADEP-published background concentration. However, this metal and PAH, respectively, were present at levels below their applicable Method 1 S-1/GW-2 and S-1/GW-3 standards. Lead was detected at varying concentrations in all soil samples submitted for analysis. The horizontal extent of the lead contamination in the enclosed courtyard has not been determined at this time.

8.0 MIGRATION PATHWAYS AND EXPOSURE POTENTIAL

8.1 Migration Pathways

8.1.1 Air

Groundwater data from GEC's initial investigation of the exterior courtyard identified elevated levels of total PCBs in samples collected from monitoring wells GEC-1 (5.1 ug/l) and GEC-2 (7.8 ug/l) at concentrations that exceeded the applicable GW-2 standard of 5.0 ug/l. This result indicated that groundwater might be a source of PCB vapor intrusion to indoor air. In addition, PCB-contaminated soils are located near Mill buildings 3 and 5. As a result, soil vapor points were installed through the floor of Mill building 3 and near Mill building 5, in the areas with the highest levels of soil contamination and where groundwater contamination was detected. Soil vapor samples were collected and analyzed for PCBs. No PCBs were detected and the RDLs were low enough to determine that soil vapor intrusion to indoor air is unlikely to be a significant migration pathway for this disposal site. Refer to Table 3 for a summary of Soil Vapor Data.

8.1.2 Soil

Contaminants detected in soils above applicable Method 1 S-1/GW-2, S-1/GW-3 standards included, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, dibenzo[a,h]anthracene, total PCBs, total chromium, total lead and total nickel.

Under current development conditions, the contaminated soils are located beneath asphalt or concrete and therefore cannot be easily accessed and tracked from the area of contamination or otherwise result in exposure to persons. Dust generation could occur during excavation activities within the contaminated area. Surficial run-off is not likely to occur as contaminated soils are located beneath asphalt or concrete. Significant uptake of soil contaminants by edible produce or wildlife is unlikely to occur because the

disposal site is not currently used for gardening of edible produce, nor is it a significant terrestrial wildlife habitat.

8.1.3 Groundwater

Contaminants detected in groundwater above applicable Method 1 GW-2 and/or GW-3 standards for all sampling events conducted by GEC to date included total lead, dissolved lead and total PCBs.

Groundwater was sampled for lead multiple times. During the most recent groundwater sampling event conducted on September 7, 2011, lead was detected (71 ug/l) above is applicable Method 1 GW-3 standard (10 ug/l) in the sample from GEC-1 analyzed for total metals. Yet, no dissolved lead was detected in the filtered sample from GEC-1, thereby suggesting that contaminants are adsorbed to soil particles and are not mobilized within the water column.

PCBs were detected in groundwater collected from GEC-1 and GEC-2 during the initial round of investigation. Due to the small amount of groundwater in each well, the groundwater samples were collected by bailing not by using a bladder pump. During the subsequent round of investigation, groundwater samples were collected using a bladder pump from GEC-1 and GEC-2 for analysis of total and dissolved PCBs, and groundwater samples were collected from downgradient monitoring wells GEC-6 and GEC-7 for total PCB analysis. No PCBs were detected in any of the samples from GEC-1 or GEC-2 collected for dissolved PCB analysis. No total PCBs were detected in the groundwater samples collected from GEC-6 and GEC-7. In addition, groundwater samples were collected from GEC-1, GEC-2 and GEC-6 for analysis of VOCs and from GEC-2 and GEC-6 for analysis of VPH. These analyses were done to determine if enough organic contamination exists in groundwater to act as a co-solvent for PCBs in groundwater (i.e., elevated levels of relatively soluble organics in groundwater can increase the solubility of PCBs in water). Little or no VPH or VOCs were detected in any groundwater sample. Based on these results, PCBs are not present dissolved in groundwater and are not migrating from the source area toward the Merrimack River or associated canals with groundwater flow.

Subsurface utility lines are not expected to act as a contaminant transport pathway as a significant groundwater contaminant plume is not present.

8.1.4 Surface Water

The Merrimack River abuts the property to the north and generally flows from northwest to southeast in the vicinity of the property.

As detailed in Section 7.0 results suggest that contaminants are adsorbed to soil particles and are not migrating as dissolved-phase contamination within the water column. Therefore, a significant impact to surface water is unlikely.

8.2 Human Exposure

The property is currently occupied by three buildings currently used for residential, commercial and vacant, "raw" mill space. Approximately 60 residents currently live in the property buildings and approximately 12 employees currently work at the property buildings; therefore, on-Site residents and commercial workers are considered potential current and future receptors. Utility lines are located in the immediate vicinity of the disposal site; therefore utility repair workers are potential current and future receptors. Trespassers or visitors, including nearby residents, are considered potential current and future receptors. In the future, construction activities may be conducted at the disposal site; therefore, construction workers are considered potential future receptors.

Soil contamination was detected in surficial and subsurface soils in portions of the disposal site covered by asphalt or concrete. Therefore, under current conditions, there is no pathway for exposure, except during periods of utility repair work. In the future, if the asphalt or concrete pavement is removed, exposure to OHM could occur via dermal contact to soils, incidental ingestion of soils and inhalation of dusts. If edible produce are cultivated at the disposal site in the future, exposure to metals or PCBs may occur via ingestion of edible produce.

The property and surrounding areas are serviced by the municipal potable water supply. Based on the MADEP Site scoring map, the property is not located within a potential or actual drinking water source area. No private water supply wells are located nearby. Therefore, consumers of potable drinking water are not potential receptors.

The contamination is largely non-volatile; therefore, inhalation of vapors attributable to the disposal site either in indoors air or ambient air is not an exposure pathway for this disposal site.

The depth to groundwater is greater than six feet below ground surface. Therefore, future utility workers are unlikely to contact contaminated groundwater. For future construction activities, excavations may penetrate the water table. However, an assumption is made that dewatering activities will be conducted in groundwater enters the excavation. Therefore, construction worker exposure to groundwater is presumed not to occur.

Based on an evaluation of the groundwater data, an impact to surface water is unlikely to occur. Therefore, primary and secondary contact recreational users of nearby surface waters are not potential receptors. There are no human exposure pathways associated with the Merrimack River and associated canals.

8.3 Environmental Exposure

A NHESP Wetlands Habitat is located in the portion of the Merrimack River that abuts the property to the north. Protected Open Spaces are located approximately 500-feet southeast, 500-feet north, ¼-mile southwest, ¼-mile southeast, ½-mile west, ½-mile southwest, ½-mile east and ½-mile north of the property. Based on an evaluation of groundwater data, contamination is not and has not migrated off the disposal site; therefore, there are no environmental receptors associated with the disposal site.

9.0 EVALUATION FOR IMMEDIATE RESPONSE ACTION

The following is an evaluation of the need for an IRA. IRAs are needed when a 2-hour or 72-hour reportable condition, a condition of Substantial Release Migration (SRM), Critical Exposure Pathway, or an Imminent Hazard exists at a Site. No IRAs are currently being conducted on the property in association with RTN 3-26688 or RTN 3-30667. Based on a comparison of current disposal site conditions to 2-hour and 72-hour reportable conditions and the evaluations documented in Sections 9.1 to 9.3, no Immediate Response Actions are required for the disposal site.

9.1 Substantial Release Migration

A condition of Substantial Release Migration is a condition at a disposal site that includes releases that have resulted in discharge of separate-phase OHM to surface waters, subsurface structures, or underground utilities or conduits and releases to the groundwater that have migrated or are expected to migrate more than 200 feet per year.

During the recently conducted subsurface investigations, no OHM was found to discharge to surface waters, subsurface structures or underground utilities or conduits. Additionally, as detailed in Section 7.0, groundwater sampling results suggest that contaminants are adsorbed to soil particles and are not migrating as dissolved-phase contamination within the water column. Therefore, groundwater sampling conducted to date, demonstrates that contaminants are not expected to migrate more than 200 feet per year. Based on these findings, a condition of Substantial Release Migration is not present at the disposal site.

9.2 Critical Exposure Pathways

Critical Exposure pathways are those routes by which OHM at a disposal site are transported, or are likely to be transported, to human receptors via: (a) vapor-phase emissions of measurable concentrations of OHM into the living or working space of a preschool, daycare, school or occupied residential dwelling; or (b) ingestion, dermal absorption or inhalation of measurable concentrations of OHM from drinking water supply wells located at and servicing a preschool, daycare, school or occupied residential dwelling.

This release is located within a property utilized for residential with high frequency, low intensity public access. The current usage of the surrounding Mill buildings is mixed consisting of residential, office, commercial, museum and empty space. Soil vapor sampling was conducted for PCBs. No PCBs were detected at a concentration less than 0.049 $\mu g/m^3$ in the samples collected.

Based on an initial risk evaluation, soil gas sampling results indicate vapor phase emissions have not impacted the Site building or abutting properties at concentrations that would constitute an imminent hazard. Furthermore, no potable water supply wells are located within the immediate vicinity of the release. Based on the foregoing, no Critical Exposure Pathway exists at the disposal site.

9.3 Imminent Hazard Evaluations

Environmental conditions were evaluated with regard to the release to determine if any of the Imminent Hazard criteria, specified at 310 CMR 40.0321(1), 310 CMR 40.0321(2), and 310 CMR 40.0950 are met. There is no evidence of vapor build up within the building. The release did not occur to a roadway and therefore did not endanger public safety. Under current conditions, disposal site contaminants are not expected to cause significant risk to humans following short term exposure or to cause readily apparent effects to human health (such as respiratory distress or dermal irritation). The release has not impacted surface water, and no evidence of an acute adverse impact on freshwater or salt water fish populations has been observed.

No private drinking water supply well is known to exist near the disposal site, and, as such, no OHM is expected to be present in the waters of the private drinking water supply well at a level ten fold greater or more than the Category RCGW-1 Reportable Concentration. No OHM for which Imminent Hazard criteria are specified at 310 CMR 40.0321(2)(b) were detected in unpaved portions of the disposal site in the ground surface or within a depth of twelve inches below the ground surface at concentrations equal to or greater than those specified at 310 CMR 40.0321(2)(b). Because groundwater contamination is not readily accessible to the human population, long term risks are not expected to exceed the Imminent Hazard ten-fold risk limit criteria for long term exposure. Based on the foregoing, a quantitative Imminent Hazard risk assessment, described at 310 CMR 40.0950, is not needed. No Imminent Hazard exists as a result of the release.

10.0 PHASE II SCOPE OF WORK

10.1 Scope and Nature of Investigative and Sampling Program

GEC completed limited subsurface investigations to define the nature, magnitude, extent and migration pathways associated with the release. Thirteen soil borings, seven of which were completed as monitoring wells, were installed to determine the magnitude and extent of the release to soil and groundwater and to evaluate migration pathways. Two rounds of groundwater sampling and analysis have been conducted at the property to determine the magnitude and extent of the release in groundwater. Two soil vapor points were installed and sampled to determine if the release has impacted soil vapors.

Based on a review of soil, groundwater and soil vapor data collected by GEC from several locations on the disposal site, GEC has developed the following Phase II Scope of Work (SOW) to develop a more comprehensive understanding of magnitude and extent in soil and groundwater contamination. Due to the presence of PCB contamination at the disposal site, under TSCA regulations, USEPA must be notified of disposal site conditions. GEC intends to notify USEPA of the presence of PCBs at the disposal site prior to initiating Phase II investigations. It is anticipated that the following Phase II Scope of Work (SOW) will be implemented at the disposal site, however, should USEPA request additional information outside the proposed SOW, the Phase II SOW presented below may be expanded upon.

Eastern Courtyard Soils

PCB contamination exists within soils throughout the eastern courtyard, at levels above Method 1 S-1, S-2 and S-3 standards. The PCB levels in sample B-4, 2-5 feet BGS exceed the UCL for PCBs in soils. Metal data was primarily collected in the surface soils and in deeper soils, more data is needed to assess metals concentrations in intermediate soils. More metal data is also needed to determine the horizontal extent of contamination. Many PAHs were detected at levels exceeding the MADEP's published background concentrations of soils associated with fill containing coal as or wood ash. No VOCs were detected in any soil samples. Low levels of EPH were detected in soils. No further investigation of VOCs or EPH in soils is needed.

Based on these results, the following will be conducted under Phase II activities:

- To assess whether the area near B-4 is a hot spot of PCB contamination, additional samples will be collected and analyzed for PCBs. Four soil borings will be installed in the vicinity of B-4 and soil samples will be collected from each boring from 0-3 feet BSG and 3-6 feet BSG and analyzed for PCBs. In addition, a boring will be advanced at B-4 to collect soil samples from the 3-6 and 6-9 foot intervals to determine the vertical extent of contamination at this location.

- In order to fully assess the risks associated with metal contamination and to determine the vertical extent of metal contamination, six soil samples will be collected from 3-6 feet BGS and analyzed for chromium, lead and nickel. These samples will be collected proximal to soil samples previously collected at locations B-8 through B-13 from 0-3 feet BSG.

- Additional investigation is needed to determine the horizontal extent of PCB, metal and PAH contamination and to obtain data representative of the entire eastern courtyard. Between six and twelve additional soil borings will be installed across the eastern courtyard and beneath the abutting buildings, and approximately twelve to eighteen soil samples will be collected and analyzed for PCBs, metals and/or PAHs.

Western Courtyard Soils

Elevated lead levels (above urban background (600 mg/kg) and above Method 1 S-1/GW-2 standards (300 mg/kg) were detected in soil samples B-6 0-4 feet BGS and B-6A 0-2 feet BGS. Based on these results, the following will be conducted under Phase II activities:

Two additional soil borings will be installed west and south of 4B-6A. Soils will be collected from the two soil borings from the 0-3 foot BGS interval and analyzed for lead. Additional borings may be necessary to obtain representative lead levels across the western courtyard.

Groundwater

Groundwater samples were collected from key monitoring wells for analysis of total metals, total lead, dissolved lead, VOCs, VPH, total PCBs and dissolved PCBs. No VPH, total PCBs or dissolved PCBs were detected. One sample had a low level of acetone (a VOC). Based on these results, the following activities will be conducted under Phase II activities:

- The dissolved PCB and VOC/VPH data indicate that significant migration of dissolved-phase PCBs with groundwater flow is unlikely to occur; therefore, a significant environmental impact to the Merrimack River is unlikely to occur. Therefore, no further investigation relative to PCB or VOC impact to the Merrimack River is needed.

- The detection limit for dissolved and total PAHs for GEC-2 is too high to evaluate whether PAH migration in groundwater might significantly impact surface water. Therefore, two groundwater samples (one field filtered) will be collected from GEC-2 for analysis of PAHs.

- The level of C11-C22 aromatic hydrocarbons in GEC-1 and GEC-2 are high enough to suggest a potential impact to the Merrimack River. Two groundwater samples (with one field filtered) will be collected from each monitoring well (GEC-1 and GEC-2) for analysis of total and dissolved EPH.

Soil Vapor Data

No PCBs were detected above the RDL in the two soil vapor samples collected from SV-1 and SV-2 or in the field blank. Therefore, insufficient PCB is likely present in the soil vapor to result in significant vapor intrusion to indoor air. No further investigation of vapor intrusion to indoor air is necessary.

10.2 Licensed Site Professional

Boot Properties, LLC has retained Brian T. Butler of Goldman Environmental Consultants, Inc. to be the Licensed Site Professional (LSP) conducting Comprehensive Response Actions for RTN 3-26688 and RTN 3-30667. His license number is 5736.

10.3 Phase II Implementation Schedule

The Phase II – Comprehensive Site Assessment (CSA) report is due in two years following the effective date of Tier II Classification (i.e., likely 4/11/2014). However, given the limited amount of additional data needed , it is likely that the Phase II CSA will be submitted prior to April 2014.

11.0 PHASE I COMPLETION

The Comprehensive Response Action Transmittal Form & Phase I Completion Statement (BWSC108) will be electronically signed and submitted through MADEP's eDEP. This report is attached to that submittal.

12.0 TIER CLASSIFICATION AND NUMERICAL RANKING

Tier Classification was conducted in accordance with the requirements of 310 CMR 40.0500 and 40.1500. The numerical ranking system (NRS) score was 286; therefore, the disposal site is classified as Tier II. The Tier Classification Transmittal Form (BWSC107) and NRS Scoresheet (BWSC107A) were submitted electronically through MADEP's eDEP. This report is attached to these submittals. The compliance

history and list of reports completed to date, and copy of the newspaper public notice are provided in Appendix C and D, respectively.

13.0 SUMMARY OF FINDINGS AND STATEMENT OF CONCLUSIONS

Based on the investigation documented herein, GEC finds and concludes the following:

1. The subject property, addressed as 130 Foot of John Street in Lowell, Massachusetts, is currently owned by Boott Properties, LLC and contains three adjoining buildings (Building 3, Building 4 and Building 5) utilized as residential, commercial and vacant, "raw" mill space, and is located in an area zoned "Down Town Mixed Use". Historical information indicates that, the property was developed prior to 1892. The property was occupied by the Boott Mills Cotton Goods manufacturer from 1919 to 1955. Since 1955, industrial and commercial activities conducted at the property have included, but were not limited to, wooden box manufacturer, clothing manufacturer, cleaner, textiles, restaurant, dress company, plastic container manufacturers, machine and engineering shop, silk screening companies, electronic assembly company, welding shop, vinyl and cotton lamination companies, bearings manufacturer, various commercial uses and residential.

2. To the extent that the disposal site boundaries have currently been defined, the disposal site boundary extends slightly beyond both courtyard areas.

3. In November 2006, a release of PCBs was discovered in the exterior (eastern) courtyard by TRC of Lowell, MA. TRC was retained by general contractor Consigli Construction, who observed petroleum odor when advancing test pits in the exterior courtyard. When the contamination was discovered, the property was owned by Boott Cotton Mills Development, LLC, a party that was unrelated to the current owner/filer. ECS, on behalf of Scott Lawson Group, Ltd. submitted a RAM Plan to the MADEP on December 8, 2006, providing details on the planned excavation of PCB-contaminated soils. The presence of PCBs in soils at a level (22.73 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg) was reported to the MADEP as a 120-day reportable condition on March 20, 2007. The PCB release condition was assigned RTN 3-26688.

4. Soil excavation was conducted for RTN 3-26688 in March 2007. Following excavation activities nine confirmatory soil samples were collected. On April 30, 2007, the excavation was backfilled with clean soils and gravel. ECS submitted a RAM Completion Report on January 29, 2008, on behalf of Boott Mill Development Corporation. At the time the RAM Completion Report was submitted, the property owner was Boott Cotton Mills Development, LLC. Presumably, Boott Mill Development Corporation and Boot Cotton Mills Development, LLC were affiliates. A stormwater management system was installed in the excavated area subsequent to the RAM.

5. On July 17, 2008, MADEP issued a NON to "Boot Cotton Mill Development Corporation" for not submitting a RAO Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

6. In February 2010 GEC was contracted by an entity interested in purchasing the property to conduct a due diligence Phase I ESA for the property. The Phase I ESA, dated February 25, 2010, identified: (1) the active disposal site associated with RTN 3-26688 and the known release of PCBs, petroleum hydrocarbons and suspected release of metals to soil in the vicinity of the exterior (eastern) courtyard; and (2) a potential release of OHM from an existing wall-mounted transformer and a former maintenance shop located within the enclosed (western) courtyard.

7. In June and September, 2011, due diligence subsurface investigations were conducted by GEC to determine the extent and magnitude of contamination across the disposal site. Subsurface investigations included the installation of several soil borings and monitoring wells, groundwater gauging and sampling activities and the collection of soil vapor samples.

8. The recent discovery of contaminants not reported to MADEP under RTN 3-26688 was reported by GEC to Boott Mill Developer LLC, the party interested in purchasing the property, in December, 2011. The release triggered a 120-day reporting obligation pursuant to 310 CMR 40.0315(1) for lead concentrations in soil; however, since Boott Mill Developer LLC was not the owner they were under no obligation to notify. GEC prepared a Phase II Limited Subsurface Investigation Report, dated December 8, 2011, summarizing the latest subsurface investigations along with conclusion and recommendations. The report was ultimately provided to Boott Properties, LLC (the current owner) and they were notified of their reporting obligations. Boott Properties, LLC then retained GEC to report the release to the MADEP. The MADEP was notified of the condition on February 22, 2012, through Release Notification Form BWSC-103 which was submitted electronically through eDEP. This release incident was assigned RTN 3-30667. This RTN is being linked to RTN 3-26688 via this Phase I submittal.

9. GEC's subsurface investigation within the exterior courtyard found evidence of residual PCB contamination above the applicable MADEP Method 1 S-1 Standards (2 mg/kg), with one soil sample containing PCB (124 mg/kg) at a level exceeding its UCL (100 mg/kg). Elevated levels of PCB contamination persists in both shallow soils and in soils at depths to 10-15 feet below ground surface adjacent to the north central portion of the courtyard (south wall of the renovated portion of Mill building 5). Additionally, shallow soils in the southwest corner and eastern portion of the courtyard are impacted with elevated concentrations of PCBs. Based on recent subsurface investigations, GEC concludes that the remedial activities conducted by ECS as described in their January 2008 report did not completely address the release of PCBs, reportedly from a wall-mounted transformer formerly located on the northern side of the exterior courtyard. The levels of residual PCB contamination is higher than reported in the RAM Completion Report, and the vertical and horizontal extent of contamination is larger than reported in the RAM Completion Report. The full extent of PCB contamination in soils at the disposal site is not known at this time, including whether the contamination extends beneath Mill buildings 3 or 5.

10. No PCBs were detected in any of the groundwater samples collected for dissolved PCB analysis. In addition, groundwater samples were collected from GEC-1, GEC-2, GEC-4, GEC-6 and GEC-7 for analysis of VOCs and from GEC-2 and

GEC-6 for analysis of VPH. Little or no VPH or VOCs were detected in the groundwater samples\. Based on these results, PCBs, VOCs, and VPH in groundwater is not a significant issue. Insufficient VOCs and VPH are present in groundwater to result in the co-solution of PCBs in groundwater.

11. For the exterior courtyard, concentrations of lead in shallow soils (0-3 feet) collected from borings B-10, B-11, and B-12 exceed the MADEP's background concentrations for soils associated with fill containing coal ash or wood ash. The levels of lead also exceed the Method 1 S-1 soil standards.

12. For monitoring well GEC-1, located in the exterior courtyard, total lead was detected (71 ug/l) above its Method 1 GW-3 standard (10 ug/l) in the sample collected on September 7, 2011. Yet, no dissolved lead was detected in the filtered sample collected at the same time from GEC-1, thereby suggesting that lead is adsorbed to soil particles and is not mobilized within the water column.

13. GEC's investigation in the exterior courtyard also found elevated levels of PAH constituents benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene and dibenzo[a,h]anthracene above their MADEP-published background concentrations and Method 1 S-1 soil standards. These exceedences were detected in samples obtained from soil recoveries that contained fly ash, coal, gasified coal and / or coal ash. The presence of PAHs is due at least in part to the presence of coal ash in the soils, which is a background condition; however, the transformer oil release may have contributed to the presence of PAHs in soils.

14. Chromium was detected in one soil sample and nickel in two soil samples at levels greater than their Method 1 S-1 standards and slightly greater than background concentrations. The presence of chromium and nickel may be attributable to the observed presence of coal ash, fly ash and coal in the fill, and/or historic industrial operations at the subject property.

15. GEC's investigation within the enclosed courtyard found no evidence of PCB contamination, though there were relatively low levels of PAHs and metals detected in at least one sample. Lead was detected at higher concentrations, and it was detected in all soil samples submitted for analysis. Again, GEC documented the presence of brick, coal, and coal ash in soils. Except for lead, the metal and PAH concentrations may be attributed to a background condition and not a

separate release. Historic industrial operations may have also contributed to the presence of some of the PAHs and metals.

16. Based on current conditions, the contaminated soils are covered by asphalt and concrete pavement and building foundations. There is no mechanism for human exposure to the soil contamination under current conditions, except perhaps during periods of utility repair work. Exposure to the soils may occur in the future, if the pavement or building foundation is removed or during future construction activities.

17. Soil vapor points were installed through the floor of Mill Building 3 and near Mill Building 5, in the areas with the highest levels of PCB-contaminated soils. Soil vapor samples were collected and analyzed for PCBs. No PCBs were detected and the RDLs were low enough to determine that soil vapor intrusion to indoor air is unlikely to be a significant migration pathway for this disposal site.

18. Based on the available groundwater data, there is no significant dissolved-phase contamination associated with the disposal site. No plume of dissolved-phase groundwater contamination is emanating from the disposal site. No non-aqueous phase liquid or free phase product has been encountered at the disposal site.

19. Based on a review of the available data, additional assessment is needed to fully define the magnitude and extent of PCBs and lead contamination in soils. As presented in the Phase II SOW, additional soil and groundwater samples will be collected throughout the disposal site during Phase II investigations to delineate magnitude and extent of contamination and to characterize potential migration and exposure pathways.

20. The Merrimack River abuts the property and generally flows from northwest to southeast in the vicinity of the property. Based on an evaluation of the available groundwater data, the OHM detected in groundwater appear to be adsorbed to soils and are not present in a dissolved state. As a result, groundwater contamination is unlikely to migrate with groundwater flow and discharge to the Merrimack River or its associated canals. Therefore, a significant impact to surface water is unlikely to be occurring or to occur in the future.

21. Further Response Actions consistent with the MCP are necessary at the disposal site. Tier Classification of the disposal site pursuant to 310 CMR 40.0500 is

necessary, and must be conducted prior to implementation of Response Actions [310 CMR 40.0486]. Tier Classification pursuant to 310 CMR 40.0500 is included within this report.

22. Pursuant to 310 CMR 40.1500, the disposal site has a NRS Score of 286. Based on the forgoing, the disposal site is classified as Tier II.

23. Following Tier Classification and prior to initiating Response Actions, a Phase II Scope of Work must be prepared and submitted to the MADEP. A Phase II Scope of Work has been prepared and is included in this report.

14.0 LSP EVALUATION OPINION

This LSP Evaluation Opinion was prepared by Brian T. Butler (L.S.P. #5736) and Goldman Environmental Consultants, Inc. of Braintree, Massachusetts, for RTN 3-26688 & RTN 3-30667. This Opinion was prepared on behalf of Boott Properties, LLC, the current property owner.

14.1 LSP Opinion regarding Phase I – Initial Site Investigation

The Phase I – Initial Site Investigation meets the performance standards [310 CMR 40.0482] for Phase I. It provides sufficient information to meet the requirements of the Numerical Ranking System and Tier Classification process. The Phase I Report conforms with the applicable requirements of a Phase I Report specified in 310 CMR 40.0480.

Based on the outcome of the Phase I Report, comprehensive response actions are necessary at the disposal site. Tier Classification of the disposal site pursuant to 310 CMR 40.0500 is necessary, and must be conducted prior to implementation of comprehensive response actions [310 CMR 40.0486]. Due to the concentration of PCBs detected in soils at the disposal site, USEPA must be notified of disposal site conditions under TSCA. GEC intends to notify USEPA of the PCB contamination detected at the disposal site prior to initiating Phase II investigations or any remedial action.

The PRP signed an Administrative Consent Order with Penalty (ACOP), which requires the submittal of a Phase I Report and a Tier Classification Submittal by November 30, 2012, and we are therefore meeting the requirements of the ACOP.

14.2 LSP Tier Classification Opinion

The following elements of a LSP Tier Classification Opinion are included in this report: (1) completed Phase I Report; and (2) a NRS Scoresheet (BWSC107A) (submitted electronically through eDEP). The NRS Score was 286. Based on the foregoing, the disposal site is classified as Tier II in accordance with 310 CMR 40.0520.

14.3 LSP Opinion regarding Phase II Scope of Work

The Phase II Scope of Work has been prepared in accordance with the requirements of 310 CMR 40.0834, and is included as Section 10.0.

14.4 LSP Opinion regarding Public Involvement Activities

The City of Lowell Mayor's Office and Health Department have been notified regarding the availability of the Phase I – Initial Site Investigation and Phase II Scope of Work, of the Tier II Classification of the disposal site, and have been provided a copy of the legal notice that will be published in a local newspaper. The public involvement activities are described in Section 15.0, and copies of the legal notice and correspondences are provided in Appendix D.

15.0 PUBLIC INVOLVEMENT ACTIVITIES

In accordance with 310 CMR 40.1403(3)(e) and 310 CMR 40.1403(6), the City of Lowell Mayor and Board of Health Department were notified in writing regarding the availability of the Phase I - Initial Site Investigation, Phase II Scope of Work and Tier II Classification for the disposal site. This notification provides information on how the local agencies may obtain a copy of the report from Boott Properties, LLC. This notification also provides copies of the following: (1) the Summary of Findings and Statement of Conclusions of the Phase I Initial Site Investigation; (2) the legal notice regarding tier classification to be published in a local newspaper; and (3) the disposal site map.

In accordance with 310 CMR 40.1403(6), a legal notice must be published in a newspaper within 7 days of the submittal of a Tier Classification to inform the public about the status of the disposal site's classification. At least three days prior to publication of the legal notice, a copy of the notice will be sent to the City of Lowell Mayor's Office and Board of Health Department.

A copy of the public correspondence letters and legal notice are provided in Appendix D. The legal notice identifies the newspaper where, and the date when, the legal notice will be published. A copy of the tear sheet of the legal notice will be sent to MADEP within seven days of publication.

16.0 WARRANTY

The conclusions and recommendations contained in this report are based on the information available to GEC and upon the current regulatory climate as of April 11, 2012. The conclusions and recommendations may require revision if future regulatory changes occur. GEC provides no warranties on information provided by third parties and contained herein. Data compiled was in accordance with GEC's existing procedures and consistent with the MCP, and should not be construed beyond its limitations. Any interpretations or use of this report other than those expressed herein are not warranted.

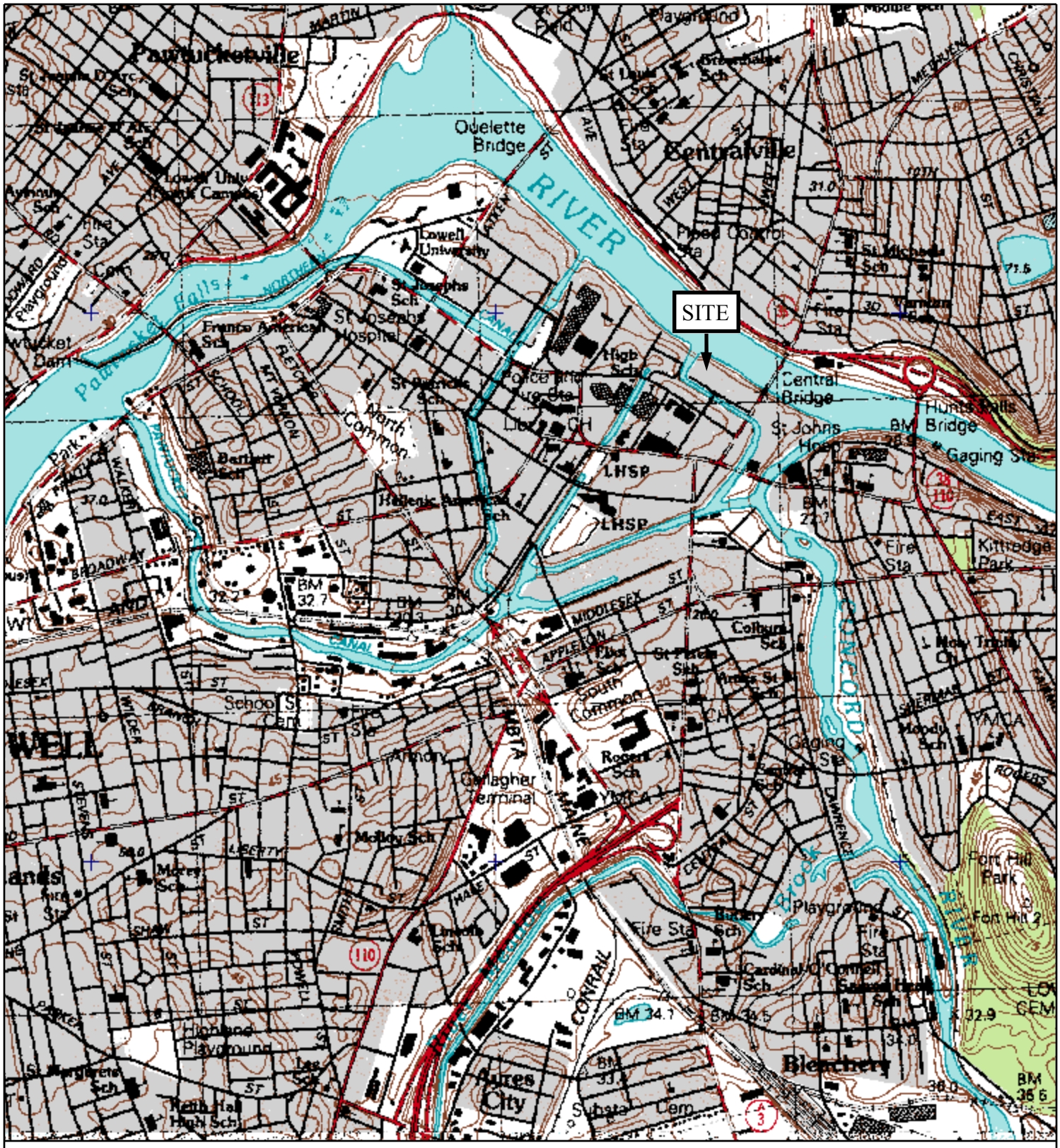
The use, partial use, or duplication of this report without the written consent of Goldman Environmental Consultants, Inc. is strictly prohibited. This report is subject to GEC's Contract for Consulting Services with the client.

Respectfully submitted,
Goldman Environmental Consultants, Inc.

Lauren M. McKinlay
Project Manager/Geologist

Brian T. Butler, LSP
VP, Waste Site Program

FIGURES



USGS 7.5 Minute Topographic

Lowell
Massachusetts Quadrangle

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SITE LOCUS

Boott Mills
130 Foot of John Street,
Lowell, Massachusetts

GEC Project #: 911-173A

Figure 1

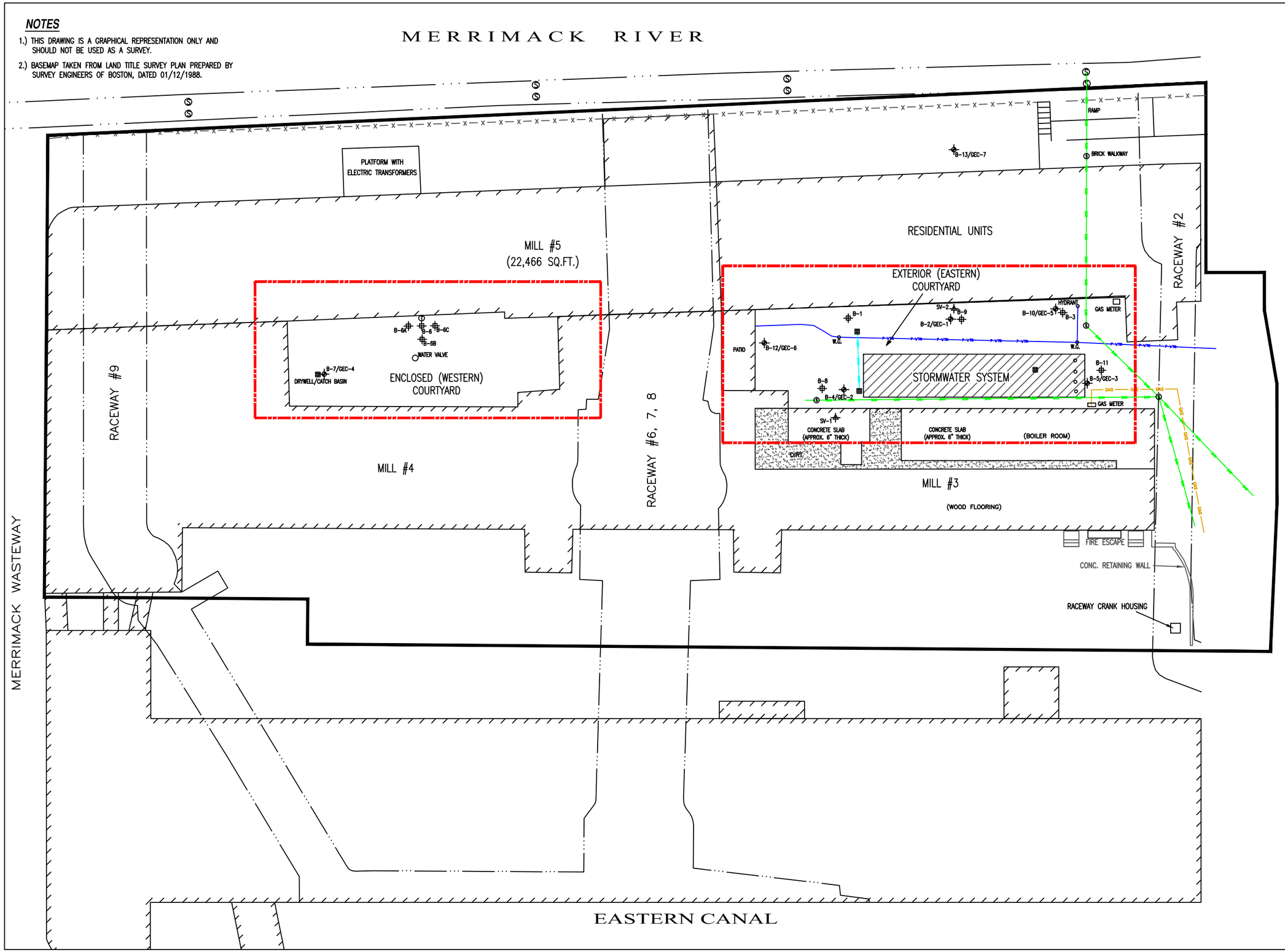
Scale
1 : 25,000

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



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Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
- Sanitary Line
- Storm Drain Line
- Gas Line
- Water Line
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall–Mounted Transformer
- Soil Vapor Point

Site Plan

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2

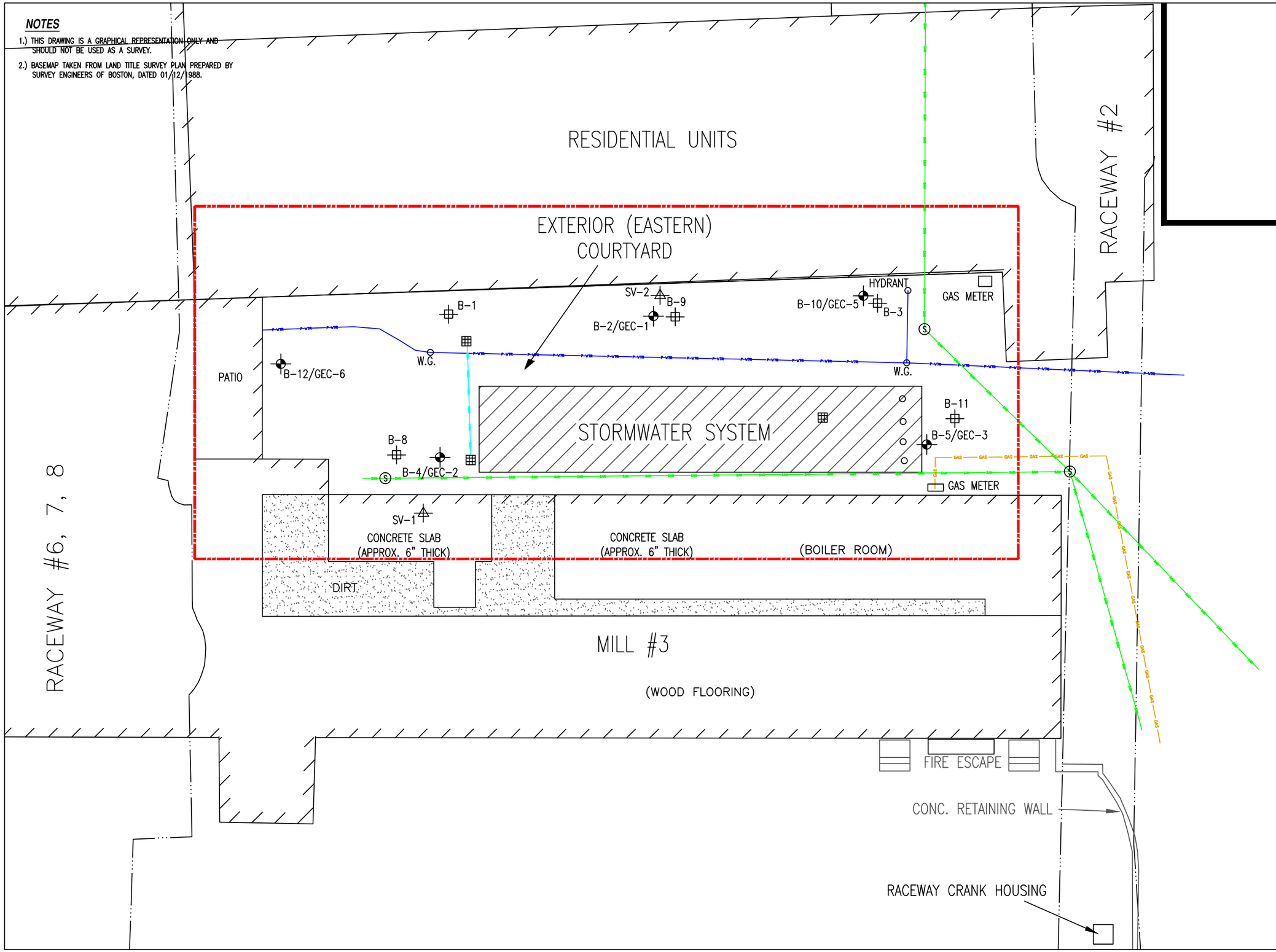
SCALE
0 20' 40'

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



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Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
- Sanitary Line
- Storm Drain Line
- Gas Line
- Water Line
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall-Mounted Transformer
- Soil Vapor Point

Site Plan
(Eastern Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2A

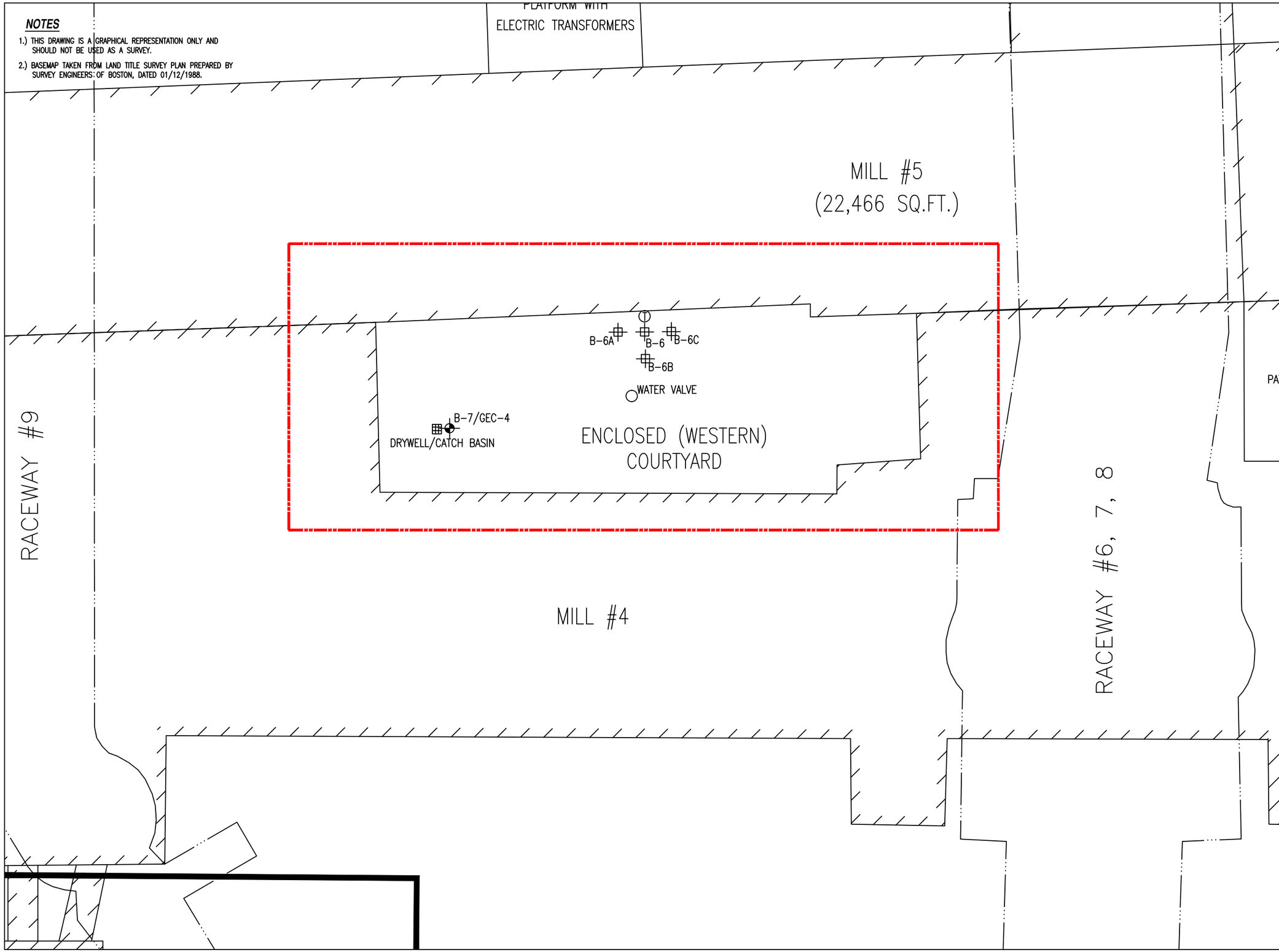
SCALE
0 10' 20'

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



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Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
- Sanitary Line
- Storm Drain Line
- Gas Line
- Water Line
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall-Mounted Transformer
- Soil Vapor Point

Site Plan
(Western Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2B

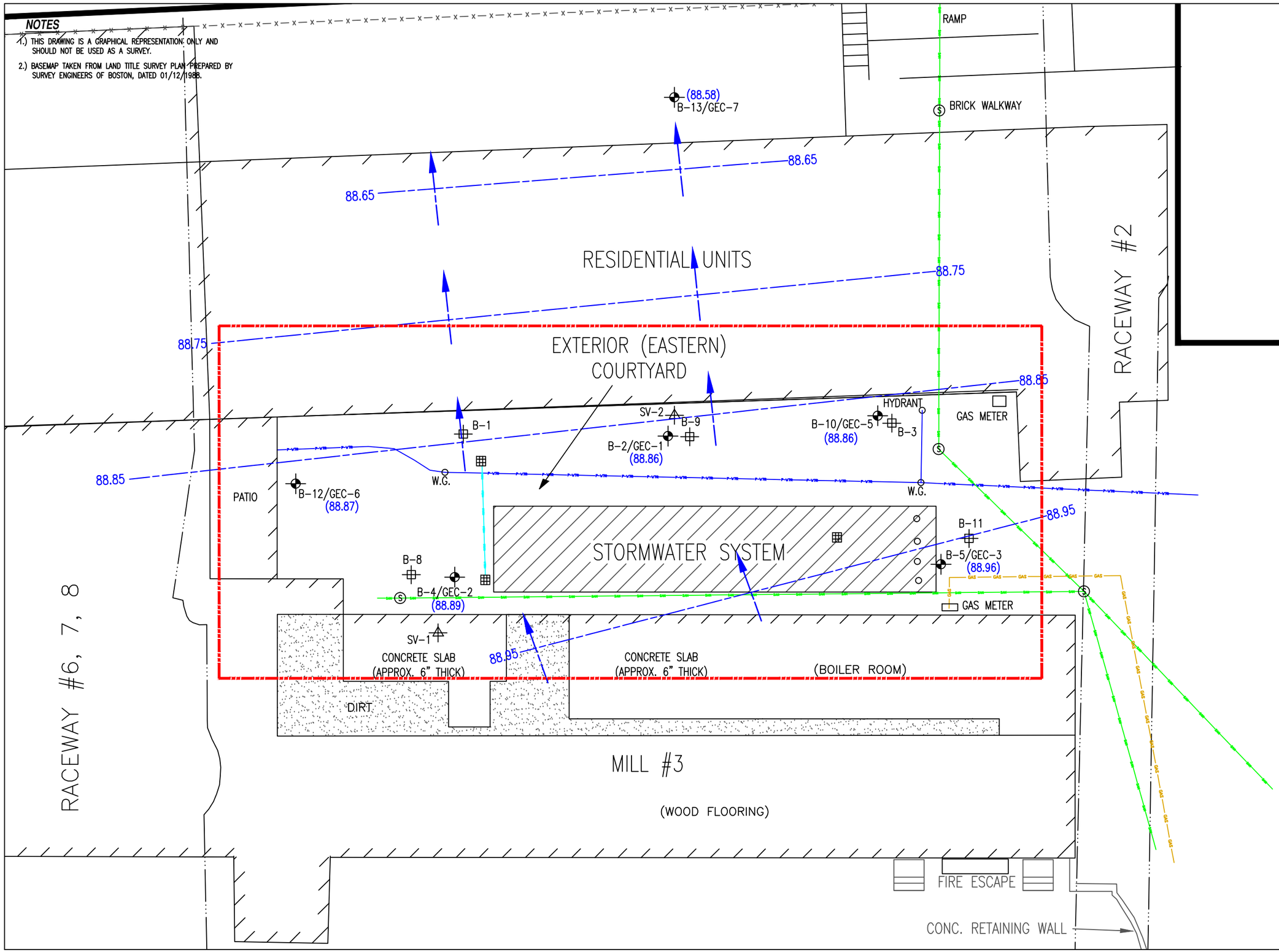
SCALE
0 10' 20'

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



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Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
- Sanitary Line
- Storm Drain Line
- Gas Line
- Water Line
- Groundwater Contour
- Groundwater Flow
- (88.96) Groundwater Elevation
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall-Mounted Transformer
- Soil Vapor Point

Groundwater Contour Plan
(Eastern Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 3

SCALE
0 10' 20'

N

MassDEP - Bureau of Waste Site Cleanup

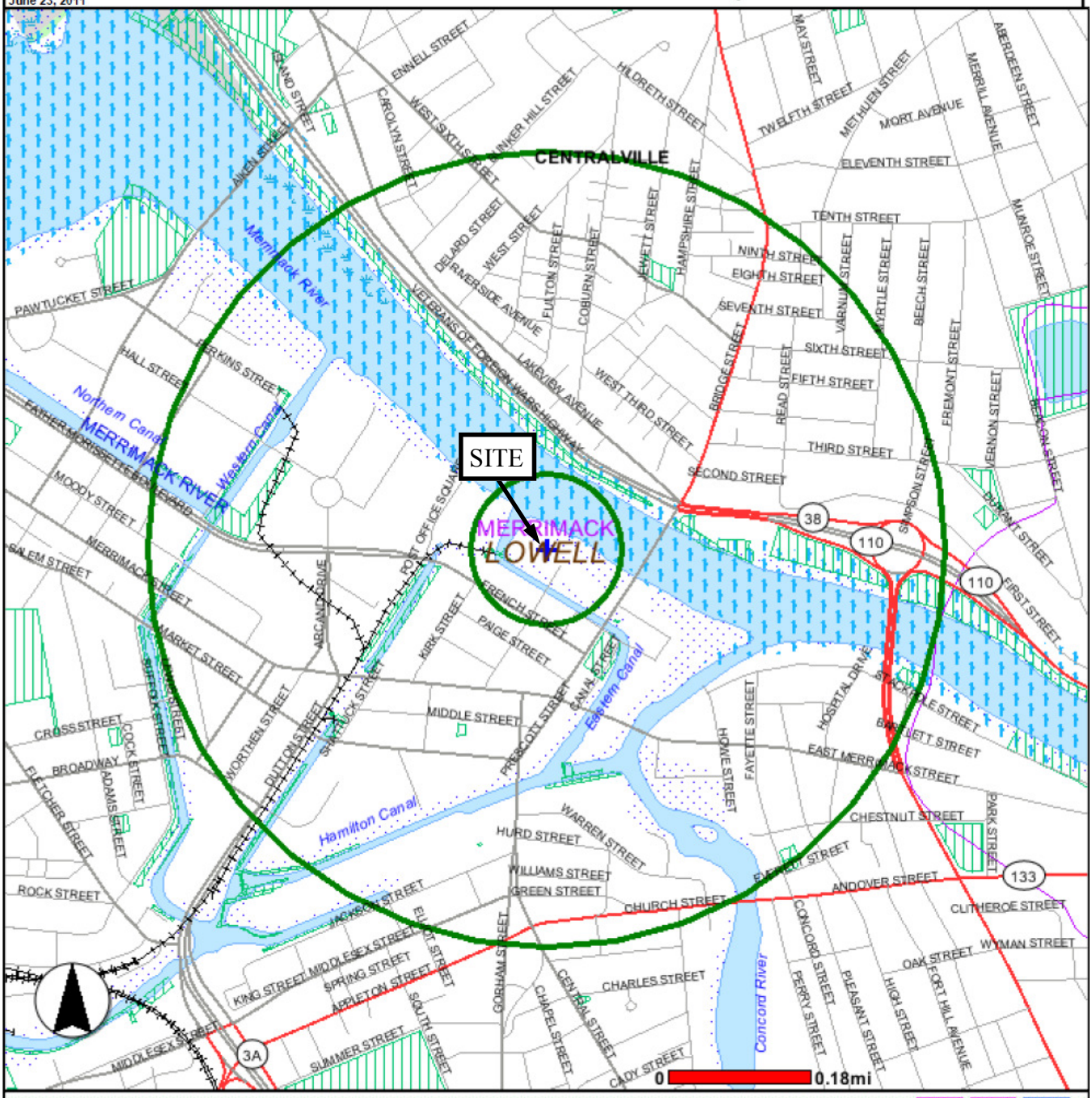
MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

Site Name:
Boott Mills Development
130 Foot of John Street
Lowell, MA
RTN:
NAD83 MA Coordinates:
215766mE, 933083mN

June 23, 2011

The information shown on this map is the best available at the date of printing. For more information please refer to www.mass.gov/mgis/massgis.htm

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
NHESP: Est Rare Weland Habitat, Certified Vernal Pool
DEP Permitted Solid Waste Landfill

GEC
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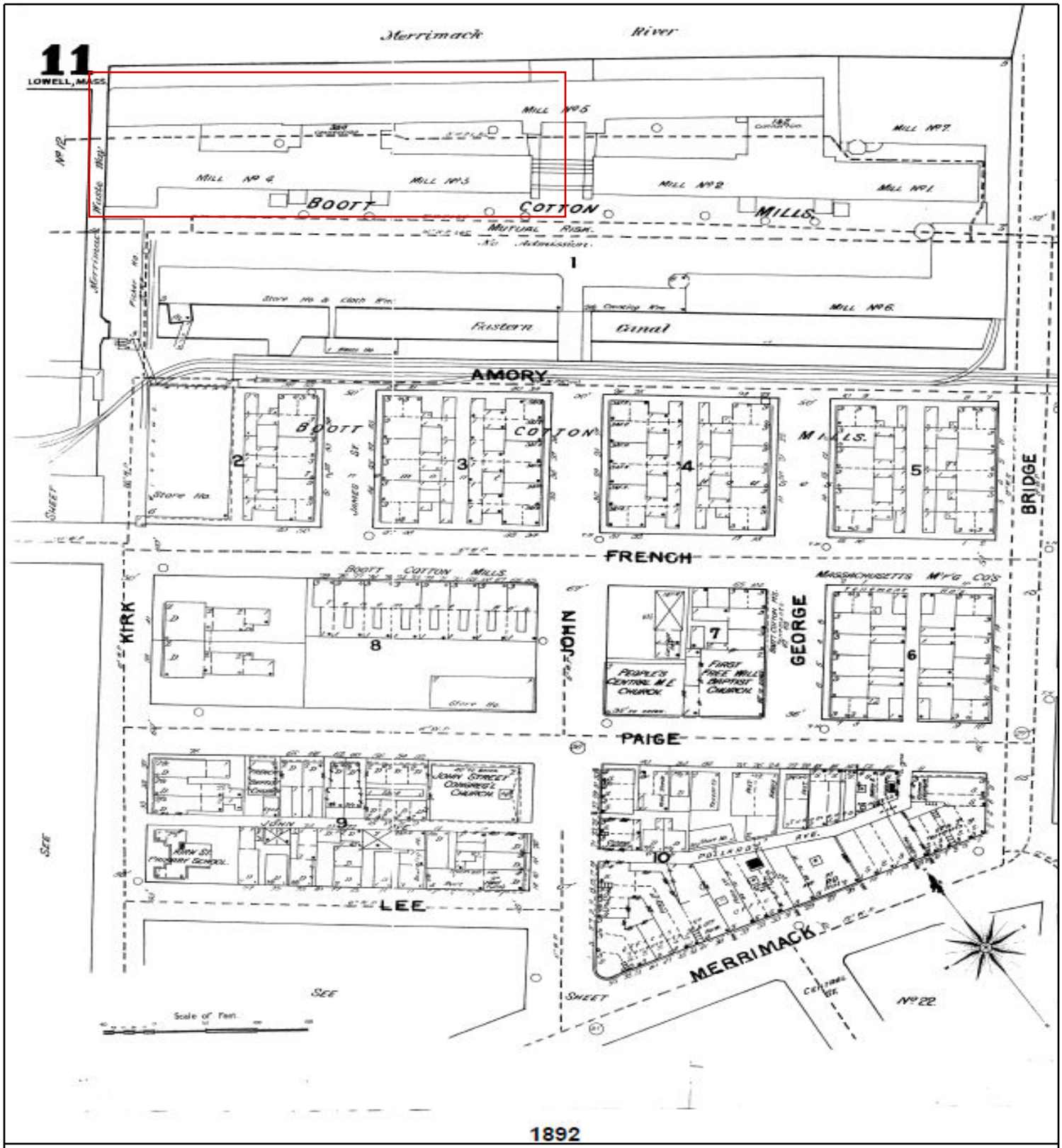
Boott Mills
130 Foot of John Street
Lowell, MA

GEC Project #: 911-173A

Figure 4



Sanborn Fire Insurance Map, dated 1892

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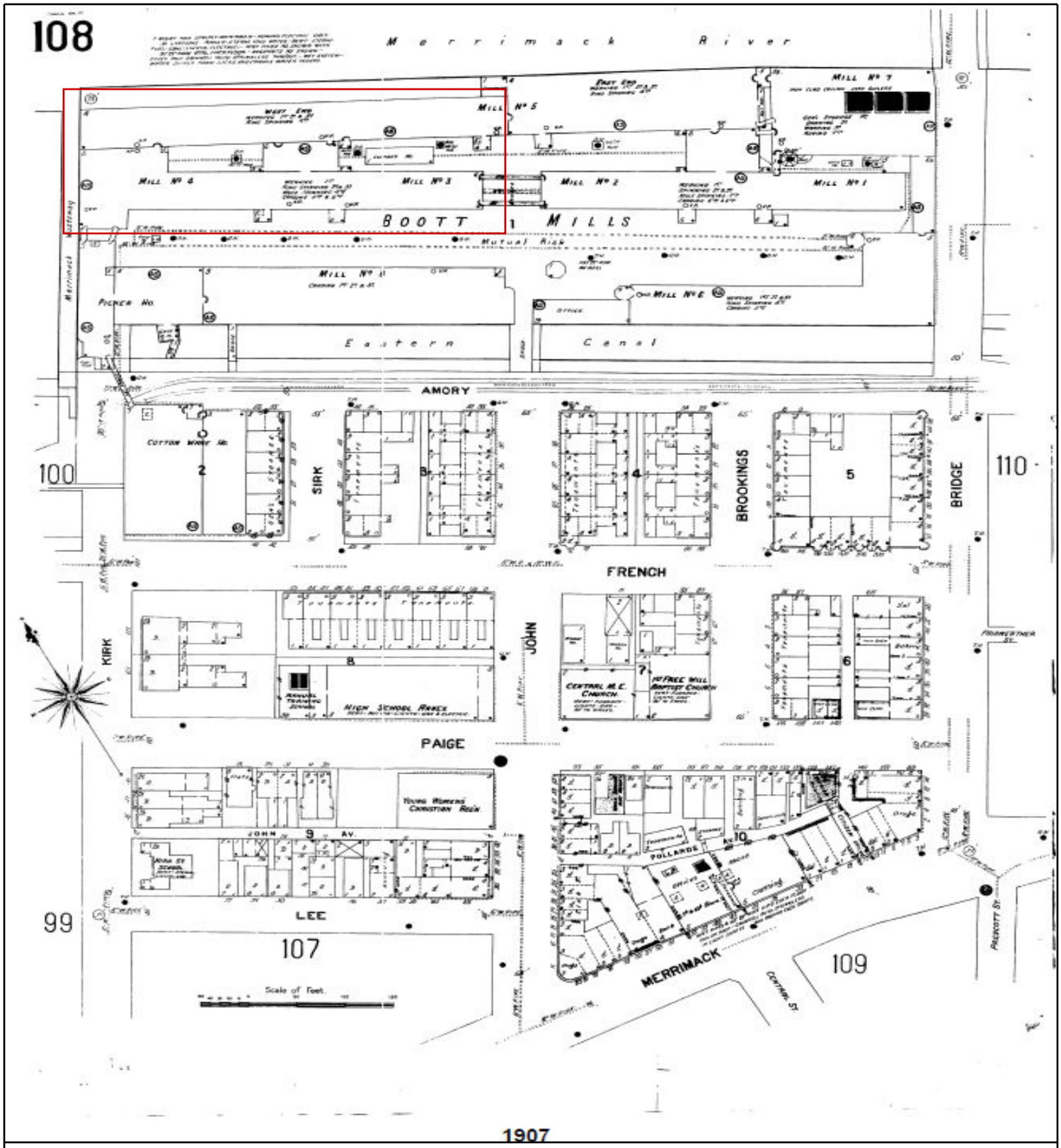
SANBORN MAP
1892
Boott Mills
130 Foot of John Street
Lowell, Massachusetts

GEC Project #: 911-0570

Figure 5A



Sanborn Fire Insurance Map, dated 1907

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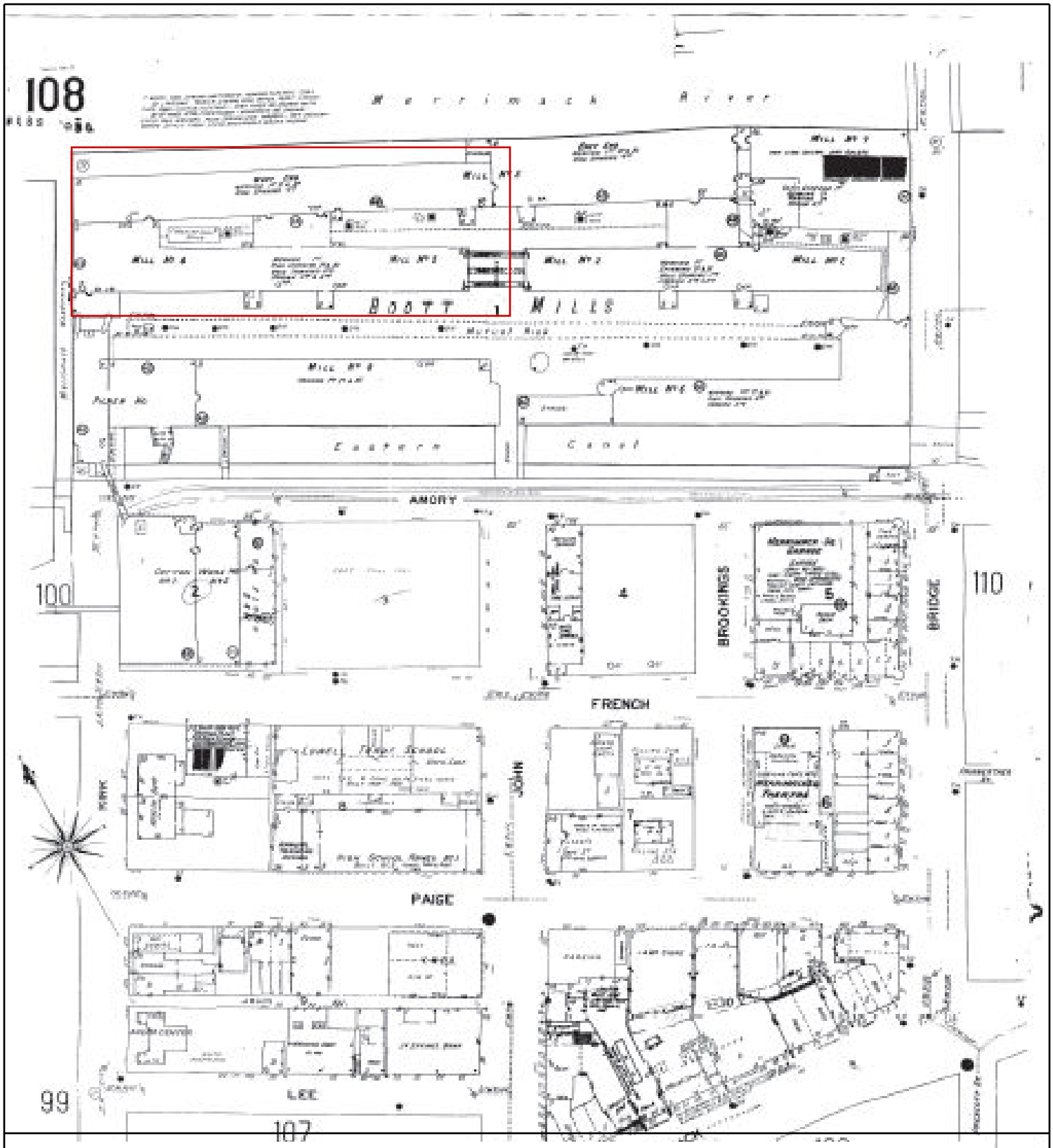
SANBORN MAP
1907
Boott Mills
130 Foot of John Street
Lowell, Massachusetts

GEC Project #: 911-0570

Figure 5B

N



Sanborn Fire Insurance Map, dated 1950

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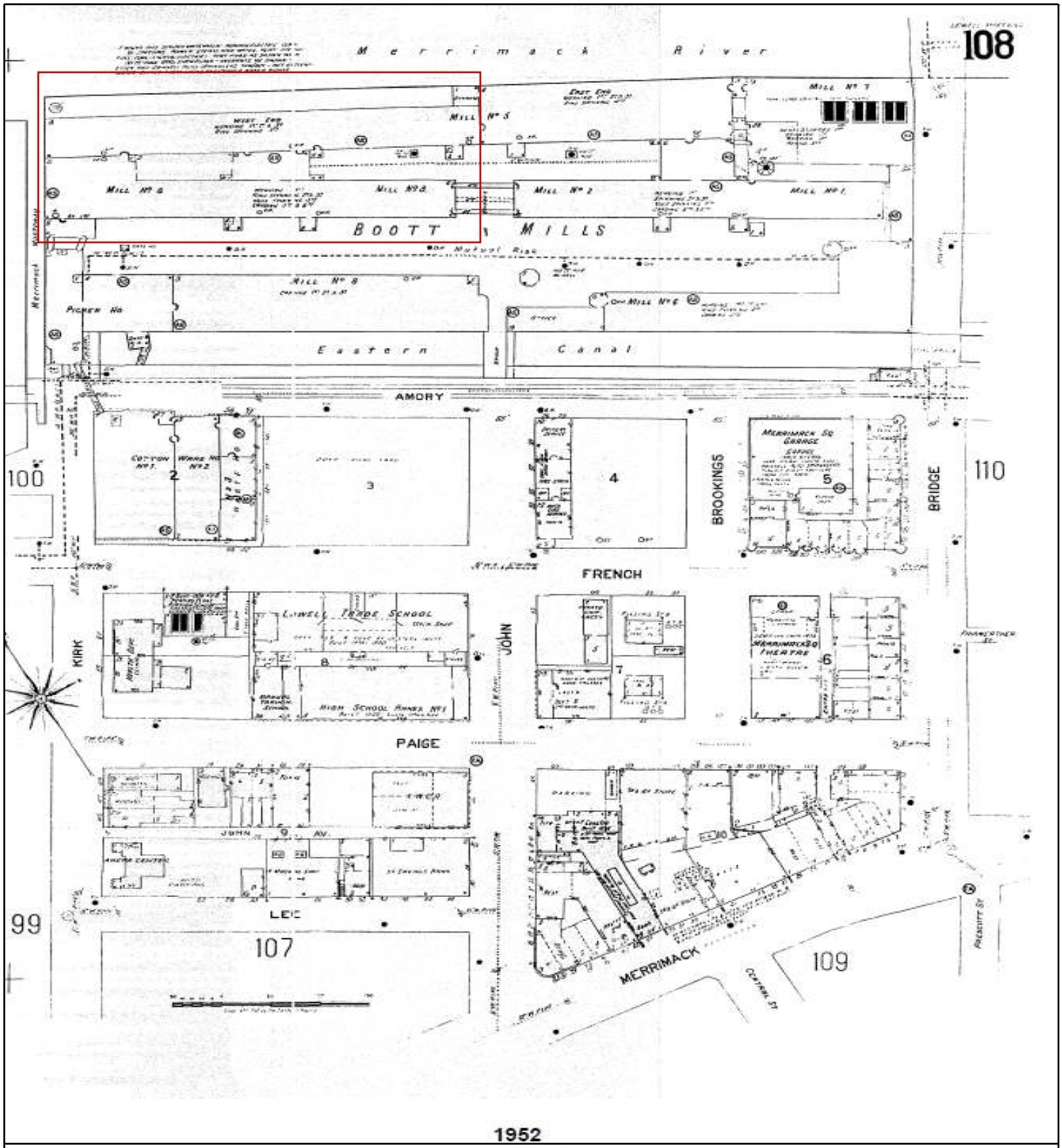
SANBORN MAP
1950
Boott Mills
130 Foot of John Street
Lowell, Massachusetts

Figure 5C

N



Sanborn Fire Insurance Map, dated 1952

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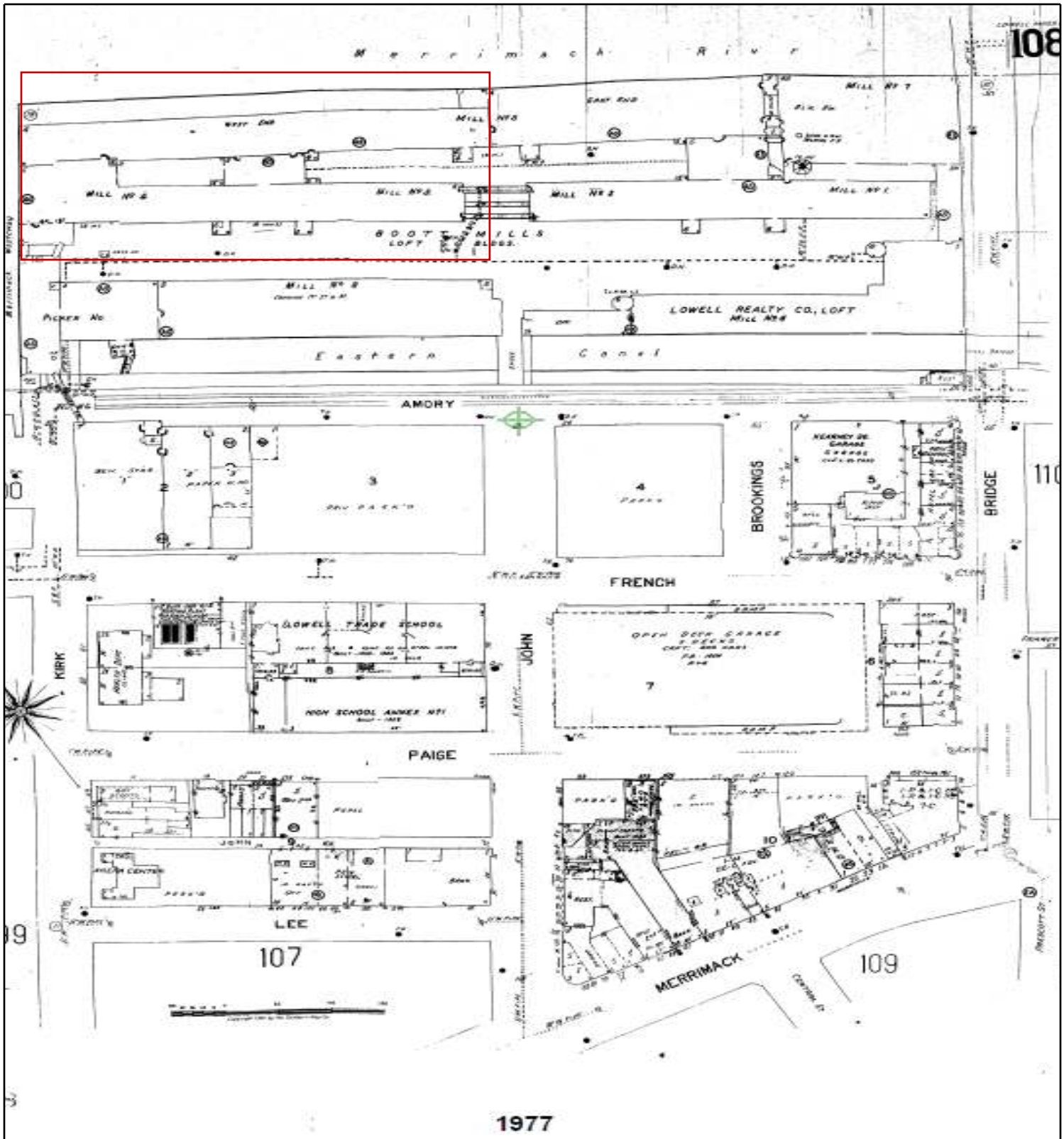
SANBORN MAP
1952
Boott Mills
130 Foot of John Street
Lowell, Massachusetts

GEC project # 911-0570

Figure 5C

N



Sanborn Fire Insurance Map, dated 1977

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SANBORN MAP
1977
Boott Mills
130 Foot of John Street
Lowell, Massachusetts

GEC Project #: 911-0570

Figure 5D

N

TABLES

TABLE 1.1
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
MADEP EPH AND VPH
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	n-C19 to n-C36 Aliphatic Hydrocarbons	RDL	n-C11 to n-C22 Aromatic Hydrocarbons	RDL
GEC-1	06/15/2011	MA DEP EPH	190	110	160	110
GEC-2	06/15/2011	MA DEP EPH	150	110	130	110
GEC-3	06/15/2011	MA DEP EPH	BRL	110	BRL	110
GEC-4	06/15/2011	MA DEP EPH	BRL	120	BRL	120
Selected Groundwater Standards						
		MA RCGW-2	50,000		5,000	
		MA GW-2	NA		50,000	
		MA GW-3	50,000		5,000	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

- On 9/12/2011, groundwater samples were collected from GEC-2 and GEC-6 for analysis of VPH via MADEP's Method. No VPH constituents were detected in either sample.
- On 9/7/2011, a groundwater sample was collected from GEC-1 for analysis of VPH via MADEP's Method; however due to the closure of the original receiving laboratory the sample was lost during the transfer of samples to Alpha Analytical. No VPH data from GEC-1 is available.

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 1.2
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
PAHs
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	Phenanthrene	RDL	Fluoranthene	RDL	Pyrene	RDL	Benzo[a]anthracene	RDL	Chrysene	RDL
GEC-1	06/15/2011	EPA 8270C Mod	1.1	0.60	2.1	0.60	2.0	0.60	1.0	0.10	0.90	0.10
	9/7/2011	EPA 8270C Mod	BRL	0.20	0.25	0.20	0.24	0.20	BRL	0.20	BRL	0.20
	9/7/2011 *	EPA 8270C Mod	BRL	0.20	BRL	0.20	BRL	0.20	BRL	0.20	BRL	0.20
GEC-2	06/15/2011	EPA 8270C Mod	BRL	0.60	1.3	0.60	1.2	0.60	0.70	0.10	0.60	0.10
	09/12/2011	EPA 8270C Mod	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5
	9/12/2011 *	EPA 8270C Mod	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5
GEC-3	06/15/2011	EPA 8270C Mod	BRL	0.60	BRL	0.60	BRL	0.60	0.20	0.10	0.20	0.10
GEC-4	06/15/2011	EPA 8270C Mod	BRL	0.60	BRL	0.60	BRL	0.60	BRL	0.10	BRL	0.10
Selected Groundwater Standards and Guidance												
		MA RCGW-2	10,000		200		20		1,000		70	
		MA GW-2	NA		NA		NA		NA		NA	
		MA GW-3	10,000		200		20		1,000		70	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

* = A sample of groundwater from GEC-1 and from GEC-2 was filtered prior to analysis via EPA 8270C.

- Surface Water Benchmark values were from MADEP's spreadworks used to derive Method 1 GW-3 Standards

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 1.2
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
PAHs
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	Benzo[b]fluoranthene	RDL	Benzo[k]fluoranthene	RDL	Benzo[a]pyrene	RDL	Indeno[1,2,3-c,d]pyrene	RDL
GEC-1	06/15/2011	EPA 8270C Mod	1.3	0.10	0.50	0.10	1.1	0.10	0.90	0.10
	9/7/2011	EPA 8270C Mod	0.27	0.20	BRL	0.20	0.28	0.20	0.37	0.20
	9/7/2011 *	EPA 8270C Mod	BRL	0.20	BRL	0.20	BRL	0.20	BRL	0.20
GEC-2	06/15/2011	EPA 8270C Mod	0.90	0.10	0.40	0.10	0.80	0.10	0.60	0.10
	09/12/2011	EPA 8270C Mod	BRL	5	BRL	5	BRL	5	BRL	5
	9/12/2011 *	EPA 8270C Mod	BRL	5	BRL	5	BRL	5	BRL	5
GEC-3	06/15/2011	EPA 8270C Mod	0.30	0.10	0.20	0.10	0.30	0.10	0.20	0.10
GEC-4	06/15/2011	EPA 8270C Mod	BRL	0.10	BRL	0.10	BRL	0.10	BRL	0.10
Selected Groundwater Standards and Guidance										
		MA RCGW-2	400		100		500		100	
		MA GW-2	NA		NA		NA		NA	
		MA GW-3	400		100		500		100	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

* = A sample of groundwater from GEC-1 and from GEC-2 was filtered prior to analysis via EPA 8270C.

- Surface Water Benchmark values were from MADEP's spreadworks used to derive Method 1 GW-3 Standards

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 1.2
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
PAHs
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	Dibenzo[a,h]anthracene	RDL	Benzo[g,h,i]perylene	RDL
GEC-1	06/15/2011	EPA 8270C Mod	0.20	0.10	0.70	0.10
	9/7/2011	EPA 8270C Mod	BRL	0.20	0.36	0.20
	9/7/2011 *	EPA 8270C Mod	BRL	0.20	BRL	0.20
GEC-2	06/15/2011	EPA 8270C Mod	0.10	0.10	0.50	0.10
	09/12/2011	EPA 8270C Mod	BRL	5	BRL	5
	9/12/2011 *	EPA 8270C Mod	BRL	5	BRL	5
GEC-3	06/15/2011	EPA 8270C Mod	BRL	0.10	0.20	0.10
GEC-4	06/15/2011	EPA 8270C Mod	BRL	0.10	BRL	0.10
Selected Groundwater Standards and Guidance						
		MA RCGW-2	40		20	
		MA GW-2	NA		NA	
		MA GW-3	40		20	

Notes:

RDL = Reported Detection Limit
BRL = Below Reporting Limit
NA = Not Analyzed
Bold = Exceeds One or More Selected Standards

* = A sample of groundwater from GEC-1 and from GEC-2 was filtered prior to analysis via EPA 8270C.
- Surface Water Benchmark values were from MADEP's spreadworks used to derive Method 1 GW-3 Standards.

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 1.3
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
TRACE METALS
BOOT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	Barium, Dissolved	RDL	Lead, Dissolved	RDL	Lead, Total	RDL	Hardness (mg/l)	RDL
GEC-1	6/15/2011	EPA 6010B	100	50	**12**	5.0	NA		NA	
	9/7/2011	EPA 6010B / SM18-20 2340B	NA		BRL	10	71	10.00	120	0.66
GEC-2	06/15/2011	EPA 6010B	BRL	50	BRL	5.0	NA		NA	
GEC-3	06/15/2011	EPA 6010B	BRL	50	BRL	5.0	NA		NA	
GEC-4	06/15/2011	EPA 6010B	BRL	50	BRL	5.0	NA		NA	
GEC-6	09/12/2011	EPA 6010B / SM18-20 2340B	NA		BRL	10	BRL	10	230	3.0
Selected Groundwater Standards										
		MA RCGW-2	50,000		10		10		10	
		MA GW-2	NS		NS		NS			
		MA GW-3	50,000		10		10			

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

NS = No applicable Standard

Bold = Exceeds One or More Selected Standards

- On 6/15/2011 GEC-1 and GEC-2 were sampled using bailers and could not be filtered in the field. Samples were filtered by the laboratory prior to preservation. GEC-3 and GEC-4 were field filtered prior to preservation.
- The Sept. 2011 samples from GEC-1 and GEC-6 were field filtered prior to preservation.

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 1.4
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
POLYCHORINATED BIPHENYLS
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	Aroclor 1248	RDL	Aroclor 1254	RDL	Total PCBs [1]	RDL
GEC-1	06/15/2011	EPA 8082	3.5	0.20	1.6	0.20	**5.1**	0.20
	9/7/2011	EPA 8082	BRL	0.25	0.43	0.25	BRL	0.25
	9/7/2011 *	EPA 8082	BRL	0.25	BRL	0.25	BRL	0.25
GEC-2	06/15/2011	EPA 8082	4.5	0.20	3.3	0.20	**7.8**	0.20
	09/12/2011	EPA 8082	BRL	0.20	BRL	0.20	BRL	0.20
	9/12/2011 *	EPA 8082	BRL	0.20	BRL	0.20	BRL	0.20
GEC-3	06/15/2011	EPA 8082	BRL	0.20	BRL	0.20	BRL	0.20
GEC-4	06/15/2011	EPA 8082	BRL	0.20	BRL	0.20	BRL	0.20
GEC-6	09/12/2011	EPA 8082	BRL	0.20	BRL	0.20	BRL	0.20
GEC-7	09/12/2011	EPA 8082	BRL	0.20	BRL	0.20	BRL	0.20
Selected Groundwater Standards								
		MA RCGW-2	5		5		5	
		MA GW-2	5		5		5	
		MA GW-3	10		10		10	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

1 = Total PCBs is a combination of separte aroclor compounds

* A sample of groundwater from GEC-1 and GEC-2 was filtered prior to analysis via EPA 8082.

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 1.5
SUMMARY OF GROUNDWATER ANALYTICAL DATA:
VOLATILE ORGANIC COMPOUNDS
BOOT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per billion [ppb], ug/L)

Sample Identification	Sample Date	Analytical Method	Acetone	RDL
GEC-1	9/7/2011	EPA 8260B	BRL	5
GEC-2	09/12/2011	EPA 8260B	BRL	10
GEC-4	06/15/2011	EPA 8260B	BRL	10
GEC-6	09/12/2011	EPA 8260B	BRL	10
GEC-7	09/12/2011	EPA 8260B	11	10
Selected Groundwater Standards				
MA RCGW-2			10	
MA GW-2			50,000	
MA GW-3			50,000	

Notes:

, = Reported Detection Limit

L = Below Reporting Limit

NA = Not Analyzed

eds One or More Selected Standards

Prepared By: MDW
Reviewed By:
Revision Date: 4/9/2012

Goldman Environmental Consultants, Inc.

TABLE 2.1
SUMMARY OF SOIL ANALYTICAL DATA:
MADEP EPH
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per million [ppm], mg/Kg)

Sample Identification	Sample Date	Analytical Method	n-C19 to n-C36 Aliphatic Hydrocarbons	RDL	n-C11 to n-C22 Aromatic Hydrocarbons	RDL	Phenanthrene	RDL	Acenaphthene	RDL	Fluorene	RDL	Anthracene	RDL
Exterior Courtyard Samples														
B-1 1-5'	06/06/2011	MA DEP EPH	210	20	150	20	1.9	0.5	BRL	0.5	BRL	0.5	0.6	0.5
B-1 10-15'	06/06/2011	MA DEP EPH	29	25	BRL	25	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62
B-2 1-5'	06/06/2011	MA DEP EPH	160	22	200	22	8.4	0.54	0.70	0.54	0.85	0.54	2.3	0.54
B-2 10-15'	06/06/2011	MA DEP EPH	69	22	38	22	BRL	0.56	BRL	0.56	BRL	0.56	BRL	0.56
B-3 5-10'	06/06/2011	MA DEP EPH	30	24	BRL	24	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6
B-4 12-15'	06/06/2011	MA DEP EPH	BRL	23	BRL	23	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58
B-4 2-5'	06/06/2011	MA DEP EPH	610	23	560	110	17	2.8	BRL	2.8	BRL	2.8	4.5	2.8
B-5 10-15'	06/06/2011	MA DEP EPH	BRL	25	BRL	25	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63
B-8 0-3'	09/01/2011	EPA 8270C	NA		NA		BRL	0.22	BRL	0.30	BRL	0.38	BRL	0.22
B-8 5-10'	09/01/2011	EPA 8270C	NA		NA		6.0	0.25	BRL	0.34	BRL	0.42	1.5	0.25
B-9 0-3'	09/01/2011	EPA 8270C/VOCs 5035	NA		NA		3.5	0.21	BRL	0.29	BRL	0.36	0.99	0.21
B-10 0-3'	09/01/2011	EPA 8270C	NA		NA		8.2	0.23	0.45	0.30	0.56	0.38	2.1	0.23
B-11 0-3'	09/01/2011	EPA 8270C	NA		NA		0.43	0.21	BRL	0.28	BRL	0.35	BRL	0.21
B-12 0-3'	09/01/2011	EPA 8270C	NA		NA		0.66	0.23	BRL	0.31	BRL	0.39	BRL	0.23
B-13 0-3'	09/01/2011	EPA 8270C	NA		NA		9.2	0.22	0.64	0.30	0.60	0.37	1.6	0.22
Enclosed Courtyard Samples														
B-6 0-4'	06/06/2011	MA DEP EPH	65	21	140	21	10	0.52	1.1	0.52	1	0.52	2.2	0.52
B-7 8-10'	06/06/2011	MA DEP EPH	BRL	24	BRL	24	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61
Selected Soil Standards														
		MA RCS-1	3,000		1,000		10		4		1,000		1,000	
		MA RCS-2	5,000		3,000		1,000		3,000		3,000		3,000	
		MA S-1/GW-2	3,000		1,000		500		1,000		1,000		1,000	
		MA S-1/GW-3	3,000		1,000		500		1,000		1,000		1,000	
		MA S-2/GW-2	5,000		3,000		1,000		3,000		3,000		3,000	
		MA S-2/GW-3	5,000		3,000		1,000		3,000		3,000		3,000	
		MADEP Background - Urban Fill	-		-		20		2		2		4	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds background concentration and S-1/GW-2 or S-1/GW-3 standard

Prepared By: MDW
Reviewed By: EAF
Revision Date: 9/26/2011

TABLE 2.1
SUMMARY OF SOIL ANALYTICAL DATA:
MADEP EPH
BOOTT MILLS
130 Foot of John Street, Lowell, MA
(unit, parts per million [ppm], mg/Kg)

Sample Identification	Sample Date	Analytical Method	Acenaph-thylene	RDL	Naphthalene	RDL	2-Methyl-naphthalene	RDL	Fluoranthene	RDL	Pyrene	RDL	Benzo[a] anthracene	RDL	Chrysene	RDL
Exterior Courtyard Samples																
B-1 1-5'	06/06/2011	MA DEP EPH	BRL	0.5	BRL	0.5	BRL	0.5	3.2	0.5	3.0	0.5	1.7	0.5	2.0	0.5
B-1 10-15'	06/06/2011	MA DEP EPH	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62
B-2 1-5'	06/06/2011	MA DEP EPH	BRL	0.54	BRL	0.54	BRL	0.54	12	0.54	11	0.54	5.9	0.54	6.6	0.54
B-2 10-15'	06/06/2011	MA DEP EPH	BRL	0.56	BRL	0.56	BRL	0.56	1.0	0.56	0.95	0.56	BRL	0.56	0.68	0.56
B-3 5-10'	06/06/2011	MA DEP EPH	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6
B-4 12-15'	06/06/2011	MA DEP EPH	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58
B-4 2-5'	06/06/2011	MA DEP EPH	BRL	2.8	BRL	2.8	BRL	2.8	24	2.8	19	2.8	**9.8**	2.8	11	2.8
B-5 10-15'	06/06/2011	MA DEP EPH	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63
B-8 0-3'	09/01/2011	EPA 8270C	BRL	0.30	BRL	0.38	BRL	0.45	BRL	0.22	BRL	0.22	BRL	0.22	BRL	0.22
B-8 5-10'	09/01/2011	EPA 8270C	1.1	0.34	0.47	0.42	BRL	0.50	14	0.25	12	0.25	**7.1**	0.25	6.4	0.25
B-9 0-3'	09/01/2011	EPA 8270C/VOCs 5035	0.46	0.29	0.24	0.20	BRL	0.43	8.2	0.21	7.0	0.21	3.7	0.21	3.6	0.21
B-10 0-3'	09/01/2011	EPA 8270C	0.74	0.30	BRL	0.38	BRL	0.46	14	0.23	12	0.23	5.8	0.23	5.3	0.23
B-11 0-3'	09/01/2011	EPA 8270C	BRL	0.28	BRL	0.35	BRL	0.42	1.1	0.21	1.0	0.21	0.61	0.21	0.62	0.21
B-12 0-3'	09/01/2011	EPA 8270C	BRL	0.31	BRL	0.39	BRL	0.47	1.3	0.23	1.3	0.23	0.75	0.23	0.74	0.23
B-13 0-3'	09/01/2011	EPA 8270C	0.33	0.30	BRL	0.37	BRL	0.45	13	0.22	11	0.22	5.6	0.22	5.9	0.22
Enclosed Courtyard Samples																
B-6 0-4'	06/06/2011	MA DEP EPH	BRL	0.52	BRL	0.52	BRL	0.52	11	0.52	9.4	0.52	4.7	0.52	5.4	0.52
B-7 8-10'	06/06/2011	MA DEP EPH	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61
Selected Soil Standards																
		MA RCS-1	1		4		0.7		1,000		1,000		7		70	
		MA RCS-2	10		40		80		3,000		3,000		40		400	
		MA S-1/GW-2	600		40		80		1,000		1,000		7		70	
		MA S-1/GW-3	10		500		300		1,000		1,000		7		70	
		MA S-2/GW-2	600		40		80		3,000		3,000		40		400	
		MA S-2/GW-3	10		1,000		500		3,000		3,000		40		400	
		MADEP Background - Urban Fill	1		1		1		10		20		9		7	

Notes:
RDL = Reported Detection Limit
BRL = Below Reporting Limit
NA = Not Analyzed

Prepared By: MDW
Reviewed By: EAF
Revision Date: 9/26/2011

Goldman Environmental Consultants, Inc.

TABLE 2.1
SUMMARY OF SOIL ANALYTICAL DATA:
MADEP EPH
BOOTT MILLS
130 Foot of John Street, Lowell, MA
(unit, parts per million [ppm], mg/Kg)

Sample Identification	Sample Date	Analytical Method	Benzo[b] fluoranthene	RDL	Benzo[k] fluoranthene	RDL	Benzo[a] pyrene	RDL	Indeno[1,2,3-c,d] pyrene	RDL	Dibenzo[a,h] anthracene	RDL	Benzo[g,h,i] perylene	RDL
Exterior Courtyard Samples														
B-1 1-5'	06/06/2011	MA DEP EPH	1.5	0.5	1.4	0.5	1.9	0.5	1.2	0.5	BRL	0.5	1.2	0.5
B-1 10-15'	06/06/2011	MA DEP EPH	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62	BRL	0.62
B-2 1-5'	06/06/2011	MA DEP EPH	6.1	0.54	4.1	0.54	**6.1**	0.54	3.9	0.54	**1.0**	0.54	3.5	0.54
B-2 10-15'	06/06/2011	MA DEP EPH	0.59	0.56	BRL	0.56	0.64	0.56	BRL	0.56	BRL	0.56	BRL	0.56
B-3 5-10'	06/06/2011	MA DEP EPH	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6
B-4 12-15'	06/06/2011	MA DEP EPH	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58	BRL	0.58
B-4 2-5'	06/06/2011	MA DEP EPH	**8.7**	2.8	8.1	2.8	**9.8**	2.8	6.0	2.8	BRL	2.8	5.8	2.8
B-5 10-15'	06/06/2011	MA DEP EPH	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63	BRL	0.63
B-8 0-3'	09/01/2011	EPA 8270C	BRL	0.22	BRL	0.22	BRL	0.30	BRL	0.30	BRL	0.22	BRL	0.30
B-8 5-10'	09/01/2011	EPA 8270C	**7.8**	0.25	3.3	0.25	**6.5**	0.34	4.9	0.34	**1.2**	0.25	4.2	0.34
B-9 0-3'	09/01/2011	EPA 8270C/VOCs 5035	4.4	0.21	1.7	0.21	**3.5**	0.29	2.9	0.29	0.58	0.21	2.5	0.29
B-10 0-3'	09/01/2011	EPA 8270C	6.4	0.23	2.5	0.23	**5.0**	0.30	4.1	0.30	**1.0**	0.23	3.6	0.30
B-11 0-3'	09/01/2011	EPA 8270C	0.74	0.21	0.30	0.21	0.63	0.28	0.51	0.28	BRL	0.21	0.43	0.28
B-12 0-3'	09/01/2011	EPA 8270C	0.84	0.23	0.32	0.23	0.65	0.31	0.53	0.31	BRL	0.23	0.46	0.31
B-13 0-3'	09/01/2011	EPA 8270C	6.5	0.22	2.6	0.22	**5.0**	0.30	3.7	0.30	**0.90**	0.22	3.2	0.30
Enclosed Courtyard Samples														
B-6 0-4'	06/06/2011	MA DEP EPH	4.5	0.52	3.2	0.52	**4.3**	0.52	2.8	0.52	**0.76**	0.52	2.3	0.52
B-7 8-10'	06/06/2011	MA DEP EPH	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61	BRL	0.61
Selected Soil Standards														
		MA RCS-1	7		70		2		7		0.7		1,000	
		MA RCS-2	40		400		4		40		4		3,000	
		MA S-1/GW-2	7		70		2		7		0.7		1,000	
		MA S-1/GW-3	7		70		2		7		0.7		1,000	
		MA S-2/GW-2	40		400		4		40		4		3,000	
		MA S-2/GW-3	40		400		4		40		4		3,000	
		MADEP Background - Urban Fill	8		4		7		3		1		3	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Prepared By: MDW
Reviewed By: EAF
Revision Date: 9/26/2011

Goldman Environmental Consultants, Inc.

TABLE 2.2
SUMMARY OF SOIL ANALYTICAL DATA:
POLYCHLORINATED BIPHENYLS (PCBs)
BOOTT MILLS
130 Foot of John Street, Lowell, MA

(unit, parts per million [ppm], mg/Kg)

Sample Identification	Sample Date	Analytical Method	Aroclor 1248	RDL	Aroclor 1254	RDL	Total PCBs [1]	RDL
Exterior Courtyard Samples								
B-1 1-5'	06/06/2011	EPA 8082	0.57	0.084	0.53	0.084	1.1	
B-1 10-15'	06/06/2011	EPA 8082	BRL	0.1	BRL	0.1	BRL	
B-2 1-5'	06/06/2011	EPA 8082	**20**	4.3	**11**	4.3	**31**	
B-2 10-15'	06/06/2011	EPA 8082	1.8	0.046	**2.3**	0.46	**4.1**	
B-3 5-10'	06/06/2011	EPA 8082	BRL	0.097	BRL	0.097	BRL	
B-4 2-5'	06/06/2011	EPA 8082	**60**	9	**64**	9	**124**	
B-4 12-15'	06/06/2011	EPA 8082	BRL	0.095	BRL	0.095	BRL	
B-5 10-15'	06/06/2011	EPA 8082	BRL	0.1	BRL	0.1	BRL	
B-8 0-1'	09/01/2011	EPA 8082	0.119	0.0342	0.149	0.0342	0.268	
B-8 1-3'	09/01/2011	EPA 8082	BRL	0.0381	BRL	0.0381	BRL	
B-8 0-3'	09/01/2011	EPA 8082	BRL	0.04	0.0699	0.04	0.0699	
B-8 5-10'	09/01/2011	EPA 8082	BRL	0.0455	BRL	0.0455	BRL	
B-9 0-1'	09/01/2011	EPA 8082	BRL	0.0364	BRL	0.0364	BRL	
B-9 1-3'	09/01/2011	EPA 8082	4.86	0.719	3.35	0.719	**8.21**	
B-10 0-3'	09/01/2011	EPA 8082	1.05	0.382	2.27	0.382	**3.32**	
B-10 3-6'	09/01/2011	EPA 8082	BRL	0.426	0.691	0.426	0.691	
B-11 0-3'	09/01/2011	EPA 8082	6.14	0.731	5.05	0.731	**11.19**	
B-11 3-6'	09/01/2011	EPA 8082	BRL	0.036	BRL	0.036	BRL	
B-12 0-3'	09/01/2011	EPA 8082	0.0649	0.0371	0.184	0.0371	0.2489	
B-12 3-6'	09/01/2011	EPA 8082	BRL	0.0368	BRL	0.0368	BRL	
B-13 0-3'	09/01/2011	EPA 8082	BRL	0.0383	BRL	0.0383	BRL	
B-13 3-6'	09/01/2011	EPA 8082	BRL	0.0368	BRL	0.0368	BRL	
Enclosed Courtyard Samples								
B-6 0-4'	06/06/2011	EPA 8082	BRL	0.082	BRL	0.082	BRL	
B-7 8-10'	06/06/2011	EPA 8082	BRL	0.096	BRL	0.096	BRL	
Selected Soil Standards								
		MA RCS-1	2		2		2	
		MA RCS-2	3		3		3	
		MA S-1/GW-2					2	
		MA S-1/GW-3					2	
		MA S-2/GW-2					3	
		MA S-2/GW-3					3	
		Upper Concentration Limits					100	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

[1] - The result for Polychlorinated Biphenyls (PCBs) is calculated as the sum of all quantified values for all analyzed Aroclor analytes.

Prepared By: MDW
Reviewd By: EAF
Revision Date: 9/26/2011

Goldman Environmental Consultants, Inc.

TABLE 2.3
SUMMARY OF SOIL ANALYTICAL DATA:
TOTAL TRACE METALS
BOOTT MILLS
130 Foot of John Street, Lowell, MA
(unit, parts per million [ppm], mg/Kg)

Sample Identification	Sample Date	Analytical Method	Antimony, Total	RDL	Arsenic, Total	RDL	Barium, Total	RDL	Beryllium, Total	RDL	Cadmium, Total	RDL	Chromium, Total	RDL
Exterior Courtyard Samples														
B-1 1-5'	06/06/2011	EPA 6010B/7471A	2.6	1.1	5	3.2	54	5.3	BRL	0.32	0.65	0.53	14	1.1
B-1 10-15'	06/06/2011	EPA 6010B/7471A	BRL	1.3	BRL	3.9	28	6.5	BRL	0.39	BRL	0.65	12	1.3
B-2 1-5'	06/06/2011	EPA 6010B/7471A	3.4	1.1	4.2	3.3	73	5.5	BRL	0.33	BRL	0.55	15	1.1
B-2 10-15'	06/06/2011	EPA 6010B/7471A	4	1.1	BRL	3.4	91	5.7	BRL	0.34	1.3	0.57	38	1.1
B-3 5-10'	06/06/2011	EPA 6010B/7471A	2.8	1.2	6.2	3.6	33	5.9	BRL	0.36	0.63	0.59	18	1.2
B-4 2-5'	06/06/2011	EPA 6010B/7471A	3.6	1.2	6.3	3.5	410	5.8	BRL	0.35	0.94	0.58	20	1.2
B-4 12-15'	06/06/2011	EPA 6010B/7471A	BRL	1.2	BRL	3.5	25	5.8	BRL	0.35	BRL	0.58	8.6	1.2
B-5 10-15'	06/06/2011	EPA 6010B/7471A	3.8	1.3	BRL	3.9	35	6.6	BRL	0.39	BRL	0.66	13	1.3
B-8 0-3'	09/01/2011	EPA 6010B/7471A	BRL	2.2	5.4	0.43	65	0.43	0.48	0.22	BRL	0.43	29	0.43
B-8 5-10'	09/01/2011	EPA 6010B/7471A	BRL	2.5	2.7	0.5	32	0.5	0.51	0.25	BRL	0.5	10	0.5
B-9 0-3'	09/01/2011	EPA 6010B/7471A	BRL	2	6.7	0.41	37	0.41	0.27	0.2	BRL	0.41	**48**	0.41
B-10 0-3'	09/01/2011	EPA 6010B/7471A	BRL	2.3	6.6	0.46	74	0.46	0.48	0.23	BRL	0.46	19	0.46
B-11 0-3'	09/01/2011	EPA 6010B/7471A	BRL	2.1	3.6	0.41	110	0.41	0.4	0.21	BRL	0.41	22	0.41
B-12 0-3'	09/01/2011	EPA 6010B/7471A	BRL	2.2	9.1	0.45	110	0.45	0.48	0.22	BRL	0.45	34	0.45
B-13 0-3'	09/01/2011	EPA 6010B/7471A	BRL	4.4	7.8	0.87	97	0.87	0.46	0.44	BRL	0.87	19	0.87
Enclosed Courtyard Samples														
B-6 0-4'	06/06/2011	EPA 6010B/7471A	4.6	1.3	5.6	3.8	110	6.4	BRL	0.38	0.97	0.64	20	1.3
B-6 4-6'	6/06/2011 *	EPA 6010B	NA		NA		NA		NA		NA		NA	
B-6A 0-2'	09/13/2011	EPA 6010B	NA		NA		NA		NA		NA		NA	
B-6B 0-4'	09/13/2011	EPA 6010B	NA		NA		NA		NA		NA		NA	
B-6C 0-4'	09/13/2011	EPA 6010B	NA		NA		NA		NA		NA		NA	
B-7 8-10'	06/06/2011	EPA 6010B/7471A	BRL	1.3	BRL	3.8	20	6.3	BRL	0.38	BRL	0.63	10	1.3
Selected Soil Standards														
		MA RCS-1	20		20		1,000		100		2		30	
		MA RCS-2	30		20		3,000		200		30		200	
		MA S-1/GW-2	20		20		1,000		100		2		30	
		MA S-1/GW-3	20		20		1,000		100		2		30	
		MA S-2/GW-2	30		20		3,000		200		30		200	
		MA S-2/GW-3	30		20		3,000		200		30		200	
		MADEP Background - Urban Fill	7		20		50		0.9		3		40	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

* Chain of custody lists sample date as 9/14/2011. Sample was collected on 6/6/2011, and submitted to the lab on 9/14/2011.

Prepared By: MDW
Reviewed By: EAF
Revision Date: 9/26/2011

Goldman Environmental Consultants, Inc.

TABLE 2.3
SUMMARY OF SOIL ANALYTICAL DATA:
TOTAL TRACE METALS
BOOTT MILLS
130 Foot of John Street, Lowell, MA
(unit, parts per million [ppm], mg/Kg)

Sample Identification	Sample Date	Analytical Method	Lead, Total	RDL	Mercury, Total	RDL	Nickel, Total	RDL	Vanadium, Total	RDL	Zinc, Total	RDL
Exterior Courtyard Samples												
B-1 1-5'	06/06/2011	EPA 6010B/7471A	95	5.3	0.15	0.017	10	5.3	16	1.1	66	5.3
B-1 10-15'	06/06/2011	EPA 6010B/7471A	BRL	6.5	BRL	0.021	7.2	6.5	24	1.3	35	6.5
B-2 1-5'	06/06/2011	EPA 6010B/7471A	290	5.5	0.34	0.019	11	5.5	25	1.1	68	5.5
B-2 10-15'	06/06/2011	EPA 6010B/7471A	590	5.7	0.39	0.02	22	5.7	47	1.1	140	5.7
B-3 5-10'	06/06/2011	EPA 6010B/7471A	17	5.9	0.061	0.021	13	5.9	24	1.2	37	5.9
B-4 2-5'	06/06/2011	EPA 6010B/7471A	530	5.8	2.5	0.19	14	5.8	28	1.2	220	5.8
B-4 12-15'	06/06/2011	EPA 6010B/7471A	BRL	5.8	BRL	0.02	6.2	5.8	16	1.2	33	5.8
B-5 10-15'	06/06/2011	EPA 6010B/7471A	6.6	6.6	BRL	0.022	8.7	6.6	24	1.3	41	6.6
B-8 0-3'	09/01/2011	EPA 6010B/7471A	170	2.2	0.24	0.09	22	1.1	20	0.43	74	2.2
B-8 5-10'	09/01/2011	EPA 6010B/7471A	5.1	2.5	BRL	0.11	6.4	1.3	13	0.5	32	2.5
B-9 0-3'	09/01/2011	EPA 6010B/7471A	90	2	0.32	0.09	**48**	1	28	0.41	43	2
B-10 0-3'	09/01/2011	EPA 6010B/7471A	**1,400**	2.3	0.35	0.09	17	1.2	20	0.46	100	2.3
B-11 0-3'	09/01/2011	EPA 6010B/7471A	**1,800**	2.1	0.79	0.08	26	1	20	0.41	170	2.1
B-12 0-3'	09/01/2011	EPA 6010B/7471A	**620**	2.2	0.28	0.1	**41**	1.1	27	0.45	130	2.2
B-13 0-3'	09/01/2011	EPA 6010B/7471A	110	4.4	0.64	0.1	20	2.2	19	0.87	95	4.4
Enclosed Courtyard Samples												
B-6 0-4'	06/06/2011	EPA 6010B/7471A	**900**	6.4	0.69	0.021	13	6.4	23	1.3	220	6.4
B-6 4-6'	6/06/2011 *	EPA 6010B	110	1.1	NA		NA		NA		NA	
B-6A 0-2'	09/13/2011	EPA 6010B	**930**	0.79	NA		NA		NA		NA	
B-6B 0-4'	09/13/2011	EPA 6010B	310	0.86	NA		NA		NA		NA	
B-6C 0-4'	09/13/2011	EPA 6010B	390	1.1	NA		NA		NA		NA	
B-7 8-10'	06/06/2011	EPA 6010B/7471A	6.9	6.3	BRL	0.021	6.9	6.3	18	1.3	35	6.3
Selected Soil Standards												
		MA RCS-1	300		20		20		600		2,500	
		MA RCS-2	300		30		700		1,000		3,000	
		MA S-1/GW-2	300		20		20		600		2,500	
		MA S-1/GW-3	300		20		20		600		2,500	
		MA S-2/GW-2	300		30		700		1,000		3,000	
		MA S-2/GW-3	300		30		700		1,000		3,000	
		MADEP Background - Urban Fill	600		1		30		30		300	

Notes:

RDL = Reported Detection Limit

BRL = Below Reporting Limit

NA = Not Analyzed

Bold = Exceeds One or More Selected Standards

* Chain of custody lists sample date as 9/14/2011. Sample was collected on 6/6/2011, and submitted to the lab on 9/14/2011.

Prepared By: MDW
Reviewed By: EAF
Revision Date: 9/26/2011

TABLE 3
SUMMARY OF SOIL VAPOR DATA:
POLYCHLORINATED BIPHENYLS (PCBs)
BOOTT MILLS
130 Foot of John Street, Lowell, MA

Sample Location		SV-1	SV-2	FB
Date Sampled		15-Sep-11	15-Sep-11	15-Sep-11
		Soil Vapor	Soil Vapor	Field Blank
Analyte	Units			
Aroclor-1016	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1221	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1232	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1242	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1248	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1254	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1260	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1262	µg/m^3	<0.048	<0.049	<0.040
Aroclor-1268	µg/m^3	<0.048	<0.049	<0.040
Total PCBs		ND	ND	ND
Lowest Residential Risk-Based Number *		0.004	0.004	0.004
Soil Vapor Screening Value **		0.2	0.2	0.2

ND = None Detected

* Lowest risk-based number for ELCR of 1E-05

** Soil Vapor Screening Value presumes a soil vapor to indoor air attenuation factor of 50

Prepared By: MDW
Reviewed By: EAF
Revision Date: 9/26/2011

Goldman Environmental Consultants, Inc.

Table 4
GROUNDWATER ELEVATION MEASUREMENTS
Boott Mills
130 Foot of John Street
Lowell, Massachusetts
(units, feet)

Well Number	Gauging Date	Screening Interval	Casing Elevation	Depth to Water	Groundwater Elevation
GEC-1	6/8/2011	7.3 - 17.3	100.40	17.30	83.10
	6/15/2011			15.66	84.74
	9/2/2011			11.54	88.86
	9/7/2011			15.10	85.30
	9/12/2011			14.20	86.20
GEC-2	6/8/2011	7.88 - 17.88	100.08	16.23	83.85
	6/15/2011			16.15	83.93
	9/2/2011			11.19	88.89
	9/7/2011			--	NA
	9/12/2011			13.93	86.15
GEC-3	6/8/2011	6.22 - 16.22	100.00	14.30	85.70
	6/15/2011			14.17	85.83
	9/2/2011			11.04	88.96
	9/7/2011			13.28	86.72
	9/12/2011			13.05	86.95
GEC-4	6/15/2011	8.78-13.78	100.02	10.07	89.95
	9/2/2011			--	NA
	9/7/2011			--	NA
	9/12/2011			--	NA
GEC-5	9/2/2011	1.8 - 11.8	100.04	11.18	88.86
	9/7/2011			--[1]	NA
	9/12/2011			--[1]	NA
GEC-6	9/2/2011	6.5 - 16.5	100.42	11.55	88.87
	9/7/2011			15.53	84.89
	9/12/2011			14.32	86.10
GEC-7	9/2/2011	3 - 13	97.73	9.15	88.58
	9/7/2011			12.97	84.76
	9/12/2011			11.73	86.00

Notes:
1 - Well Dry
- Benchmark (BM)= Southern corner of the catch basin rim located within the stormwater system 20ft northwest of GEC-3 . Assumed 100 ft elevation at BM.

Prepared by : MDW
Reviewed by: BTB
Revised: 4/9/2012

Goldman Environmental Consultants, Inc.

APPENDIX A

Environmental FirstSearch Report

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property:

130 FOOT OF JOHN ST

LOWELL MA 01852

Job Number: 1717-2010

PREPARED FOR:

02-02-12

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

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Environmental FirstSearch
Search Summary Report

Target Site: 130 FOOT OF JOHN ST
LOWELL MA 01852

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	10-25-11	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	10-25-11	0.50	0	0	0	0	-	0	0
CERCLIS	Y	09-30-11	0.50	0	0	0	0	-	0	0
NFRAP	Y	09-30-11	0.50	0	0	1	1	-	0	2
RCRA COR ACT	Y	01-10-12	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	01-10-12	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	01-10-12	0.12	0	6	-	-	-	0	6
RCRA NLR	Y	01-10-12	0.05	0	0	-	-	-	0	0
Federal Brownfield	Y	12-01-11	0.05	0	0	-	-	-	0	0
ERNS	Y	01-11-12	0.05	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	01-03-12	1.00	0	2	3	25	43	3	76
State Spills 90	Y	01-03-12	0.25	0	7	12	-	-	4	23
State Spills 80	Y	03-10-98	0.25	0	5	3	-	-	6	14
State/Tribal SWL	Y	04-01-11	0.50	0	0	0	0	-	3	3
State/Tribal LUST	Y	01-03-12	0.50	0	0	1	25	-	2	28
State/Tribal UST/AST	Y	01-06-12	0.12	0	0	-	-	-	1	1
State/Tribal EC	Y	NA	0.05	0	0	-	-	-	0	0
State/Tribal IC	Y	01-03-12	0.05	0	0	-	-	-	0	0
State/Tribal VCP	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	12-01-10	0.50	0	0	0	0	-	0	0
Federal IC/EC	Y	11-01-11	0.05	0	0	-	-	-	0	0
-TOTALS-				0	20	20	51	43	20	154

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Due to the limitations, constraints, and 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 FirstSeaarch 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:	02-02-12	**Search Type:**	COORD
Requestor Name:	DAN SHAFFER	**Job Number:**	1717-2010
Standard:	AAI	**Filtered Report**	

Target Site: 130 FOOT OF JOHN ST
LOWELL MA 01852

Demographics

Sites:	154	**Non-Geocoded:**	20	**Population:**	26979
Radon:	0.4 - 4 PCI/L				

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-71.307719	-71:18:28	**Easting:**	310821.676
Latitude:	42.648171	42:38:53	**Northing:**	4724113.321
Elevation:	62		**Zone:**	19

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes:

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	No	
Municipal Reports	No	
Liens	No	
Historic Map Works	No	
Online Topos	No	

Environmental FirstSearch
Target Site Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.

No sites found for target address

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	RCRAGN	KONARKA TECHNOLOGIES INC MAR000505446/SGN	100 FOOT OF JOHN ST LOWELL MA 01852	0.03 SE	+ 11	1
2	RCRAGN	LOWELL NATIONAL HISTORICAL PARK MAC300001161/VGN	400 FOOT OF JOHN ST LOWELL MA 01852	0.03 SE	+ 9	3
3	SPILLS	NO LOCATION AID 3-0025037/RAO	300 FOOT OF JOHN ST LOWELL MA	0.03 SE	+ 10	5
4	RCRAGN	LOWELL HIGH SCHOOL MAR000010918/VGN	50 FRENCH ST LOWELL MA 01854	0.06 SW	+ 14	7
4	SPILLS80	HIGH SCHOOL N89-0133/CLOSED	50 FRENCH ST LOWELL MA 01852	0.06 SW	+ 14	9
5	STATE	GASOLINE STATION FMR 3-0001975/TIER1D	70 FRENCH & AMORY STS LOWELL MA 01850	0.10 SE	+ 17	10
5	SPILLS	GASOLINE STATION FMR 3-0001975/TIER1D	70 FRENCH AMORY ST LOWELL MA 01850	0.10 SE	+ 17	12
6	SPILLS80	CITY OF LOWELL N88-1515/CLOSED	FRENCH & BROOKINGS STREETS LOWELL MA 01852	0.10 SE	+ 23	14
7	RCRAGN	PERFORMANCE INDICATOR LLC MV9784594500/VSQG-FED	116 JOHN ST LOWELL MA 01852	0.12 SW	+ 30	15
7	RCRAGN	PERFORMANCE INDICATOR LLC MAC300015864/SGN	116 JOHN ST LOWELL MA 01852	0.12 SW	+ 30	16
8	RCRAGN	SKY COMPUTERS INC MAD039317870/VGN	FOOT OF JOHN ST LOWELL MA 01852	0.12 SW	+ 30	17
8	STATE	FORMER BOOTT COTTON MILL 3-0026688/TIER1D	130 JOHN ST LOWELL MA 01852	0.12 SW	+ 30	19
8	SPILLS	BOOT MILL SOUTH N93-0517/CLOSED	JOHN ST LOWELL MA 01852	0.12 SW	+ 30	21
8	SPILLS	BOOTT HYDRO POWER WHEEL 6 3-0027777/RAO	130 JOHN ST LOWELL MA	0.12 SW	+ 30	22
8	SPILLS	FORMER BOOTT COTTON MILL 3-0026688/TIER1D	130 JOHN ST LOWELL MA 01852	0.12 SW	+ 30	24
8	SPILLS	JOHN ST POWER HOUSE 3-0011011/RAO	JOHN ST LOWELL MA	0.12 SW	+ 30	26
8	SPILLS80	BOOTH MILLS N88-0506/CLOSED	FRENCH & BRIDGE STS LOWELL MA 01852	0.12 SW	+ 30	28
8	SPILLS80	N82-5072/CLOSED	BOOT MILLS GATEHOUSE @ DRA LOWELL MA 01852	0.12 SW	+ 30	29
8	SPILLS80	N82-5066/CLOSED	BOOT MILL BOILER ROOM LOWELL MA 01852	0.12 SW	+ 30	30
9	SPILLS	N90-1616/CLOSED	95 BRIDGE ST LOWELL MA 01852	0.12 SE	+ 14	31

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
10	SPILLS	ROAD SURFACE SPILL N93-0950/CLOSED	BRIDGE ST/FRENCH ST LOWELL MA 01852	0.14 SE	+ 17	32
11	NFRAP	US POSTAL SERVICE MA2180410274/NFRAP-N	POST OFFICE SQ LOWELL MA 01852	0.15 NW	+ 24	33
11	SPILLS	NO LOCATION AID 3-0015465/RAONR	44 POST OFFICE SQ LOWELL MA	0.15 NW	+ 24	34
11	SPILLS	POST OFFICE N93-0528/CLOSED	44 POST OFFICE SQ LOWELL MA 01854	0.15 NW	+ 24	36
11	SPILLS	POST OFFICE SQ 3-0000354/RAO	44 POST OFFICE SQ LOWELL MA 01850	0.15 NW	+ 24	37
11	SPILLS80	N80-5007/CLOSED	BEHIND NEW POST OFFICE LOWELL MA 01854	0.15 NW	+ 24	40
11	LUST	POST OFFICE SQ 3-0000354/RAO	44 POST OFFICE SQ LOWELL MA 01850	0.15 NW	+ 24	41
12	SPILLS	RIVER PLACE TOWERS 3-0014505/RAO	115 POST OFFICE SQ LOWELL MA 01851	0.15 NW	+ 2	44
12	SPILLS	N90-1484/CLOSED	115 POST OFFICE SQ. LOWELL MA 01854	0.15 NW	+ 2	47
13	STATE	STARR REALTY PROPERTY 3-0000852/DPS	43 LAKEVIEW AVE LOWELL MA 01850	0.18 NE	+ 14	48
13	SPILLS	STARR REALTY PROPERTY 3-0000852/DPS	43 LAKEVIEW AVE LOWELL MA 01850	0.18 NE	+ 14	49
14	SPILLS	N93-1133/CLOSED	BRIDGE/MERRIMAC ST LOWELL MA 01852	0.18 SE	+ 19	50
15	STATE	TREMONT MILLS SITE 3-0019880/RAO	FRENCH ST LOWELL MA	0.20 SE	+ 4	51
15	SPILLS	TREMONT MILLS SITE 3-0019880/RAO	FRENCH ST LOWELL MA	0.20 SE	+ 4	54
16	SPILLS	SHELL OIL N90-0369/CLOSED	350 BRIDGE ST LOWELL MA 01850	0.21 NE	+ 20	57
17	SPILLS80	N83-0278/CLOSED	IMPTY LOT ACROSS FROM HIGH LOWELL MA 01852	0.21 SW	+ 24	58
18	STATE	SUNOCO STATION 3-0001328/RAO	356 BRIDGE ST LOWELL MA 01850	0.22 NE	+ 22	59
18	SPILLS	SUNOCO STATION 3-0001328/RAO	356 BRIDGE ST LOWELL MA 01850	0.22 NE	+ 22	62
19	SPILLS	LOWELL SUN N93-0178/CLOSED	PRESCOTT ST LOWELL MA 01852	0.22 SW	+ 20	65
20	SPILLS80	WASTE WATER PLANT N89-0202/CLOSED	FIRST STREET; 16 MIDDLE ST LOWELL MA 01852	0.23 SW	+ 21	66

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
21	STATE	HESS STATION 21509 FMR MERIT OIL 3-0004509/RAO	253 MERRIMACK ST LOWELL MA	0.27 SW	+ 28	67
21	LUST	HESS STATION 21509 FMR MERIT OIL 3-0004509/RAO	253 MERRIMACK ST LOWELL MA	0.27 SW	+ 28	70
22	LUST	ALONG DAVIDSON ST 3-0025921/RAO	33 E MERRIMACK ST LOWELL MA 01852	0.27 SE	- 6	73
23	STATE	MOBIL SERVICE STATION 3-0002593/RAO	443 BRIDGE ST LOWELL MA 01850	0.30 NE	+ 31	76
23	LUST	MOBIL @ 4TH & BRIDGE ST 3-0015387/RAO	443 BRIDGE ST LOWELL MA 01853	0.30 NE	+ 31	79
23	LUST	MOBIL SERVICE STATION 3-0002593/RAO	443 BRIDGE ST LOWELL MA 01850	0.30 NE	+ 31	81
24	STATE	LOWELL SUN PROPERTY 3-0001060/DEPNFA	30 MARKET ST LOWELL MA 01850	0.30 SW	+ 16	84
25	STATE	GASOLINE STATION 3-0028784/TIERII	300 MERRIMACK ST LOWELL MA 01852	0.33 SW	+ 26	85
25	LUST	GASOLINE STATION 3-0028784/TIERII	300 MERRIMACK ST LOWELL MA 01852	0.33 SW	+ 26	88
26	STATE	LOWELL POLICE DEPARTMENT 3-0018004/RAO	50 ARCAND DR LOWELL MA 01852	0.33 SW	+ 30	91
26	LUST	LOWELL POLICE DEPARTMENT 3-0018004/RAO	50 ARCAND DR LOWELL MA 01852	0.33 SW	+ 30	94
27	STATE	NO LOCATION AID 3-0011238/RAO	550 BRIDGE ST LOWELL MA 01853	0.37 NE	+ 31	97
28	STATE	BOOTT MILLS STEAM PLANT FMR 3-0004561/RAO	246 1 MARKET ST LOWELL MA 01850	0.37 SW	+ 30	100
28	STATE	FORMER COAL HOUSE BLDG #13 BOOTT M 3-0025438/TIERII	246 MARKET ST LOWELL MA 01852	0.37 SW	+ 30	103
28	LUST	BOOTT MILLS STEAM PLANT FMR 3-0004561/RAO	2461 MARKET ST LOWELL MA 01850	0.37 SW	+ 30	105
29	STATE	COMPO INDUSTRIES 3-0000041/RAO	200 MARKET ST LOWELL MA 01850	0.37 SW	+ 20	108
29	LUST	COMPO INDUSTRIES 3-0000041/RAO	200 MARKET ST LOWELL MA 01850	0.37 SW	+ 20	111
30	STATE	INDUSTRIAL PROPERTY 3-0004196/RAO	661 SUFFOLK ST LOWELL MA 01850	0.38 NW	+ 19	114
31	LUST	LOWELL SUN 3-0010673/RAO	24 HOWE ST LOWELL MA 01853	0.38 SE	+ 20	116
32	STATE	NO LOCATION AID 3-0026924/RAO	26 JACKSON ST LOWELL MA 01852	0.40 SW	+ 25	119

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
33	STATE	PARKING LOT 3-0021465/RAO	30 HOWE ST LOWELL MA 01852	0.40 SE	+ 7	121
34	LUST	WANNALANCIT OFFICE & TECHNOLOGY CE 3-0014272/RAO	660 SUFFOLK ST LOWELL MA 01854	0.41 NW	+ 26	124
35	STATE	ST JOHNS PROPERTY 3-0002928/RAO	EAST MERRIMAC & NESMITH ST LOWELL MA 01850	0.42 SE	+ 21	126
35	LUST	SAINTS MEMORIAL MEDICAL CENTER 3-0013635/RAO	HOSPITAL DR LOWELL MA 01853	0.42 SE	+ 21	128
35	LUST	ST JOHNS PROPERTY 3-0002928/RAO	E MERRIMAC ST NESMITH ST LOWELL MA 01850	0.42 SE	+ 21	131
36	LUST	CORNER OF WEST ST 3-0017256/RAO	163 W 6TH ST LOWELL MA 01850	0.42 NW	+ 18	133
37	STATE	INTERSEC OF E MERRIMAC AND HIGH ST 3-0018128/RAO	219 E MERRIMACK ST LOWELL MA 01852	0.43 SE	+ 42	135
37	LUST	INTERSEC OF E MERRIMAC AND HIGH ST 3-0018128/RAO	219 E MERRIMACK ST LOWELL MA 01852	0.43 SE	+ 42	138
38	STATE	UNIV OF LOWELL 3-0019314/RAO	600 SUFFOLK ST LOWELL MA	0.43 NW	+ 29	141
39	STATE	PROPERTY 3-0003213/RAO	128 WARREN ST LOWELL MA 01850	0.44 SE	+ 2	143
39	LUST	BAGSHAW MILLS 3-0012428/RAONR	128 WARREN ST LOWELL MA 01853	0.44 SE	+ 2	146
39	LUST	PROPERTY 3-0003213/RAO	128 WARREN ST LOWELL MA 01850	0.44 SE	+ 2	149
40	NFRAP	PEARSON-PALM MA0000877803/NFRAP-N	CHURCH/GEORGE/WARREN STREE LOWELL MA 01852	0.45 SE	+ 23	152
40	STATE	CONSTRUCTION SITE 3-0000356/DPSTRM	WARREN & CHURCH STS LOWELL MA 01850	0.45 SE	+ 23	153
40	LUST	CONSTRUCTION SITE 3-0000356/DPSTRM	CHURCH ST WARREN ST LOWELL MA 01850	0.45 SE	+ 23	156
41	STATE	DICKS SERVICE STATION 3-0017036/TIERII	180 CHURCH ST LOWELL MA 01852	0.47 SE	+ 21	159
42	STATE	U OF LOWELL PROPOSED MILL 3-0000535/RAO	AIKEN & PERKINS AVE LOWELL MA 01850	0.47 NW	+ 13	162
42	LUST	U OF LOWELL PROPOSED MILL 3-0000535/RAO	AIKEN AVE & PERKINS ST LOWELL MA 01850	0.47 NW	+ 13	165
43	STATE	HOLY TRINITY COMMUNITY CTR 3-0000355/DPS	BROADWAY & DUMMER ST LOWELL MA 01850	0.48 SW	+ 30	168
43	LUST	HOLY TRINITY COMMUNITY CTR 3-0000355/DPS	BROADWAY DUMMER ST LOWELL MA 01850	0.48 SW	+ 30	170

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
44	STATE	NO LOCATION AID 3-0023698/TIERII	38 GORHAM ST LOWELL MA 01852	0.48 SW	+ 30	172
44	STATE	VACANT LOT 3-0023852/RAONR	38 GORHAM ST LOWELL MA	0.48 SW	+ 30	175
44	LUST	NO LOCATION AID 3-0023698/TIERII	38 GORHAM ST LOWELL MA 01852	0.48 SW	+ 30	178
44	LUST	VACANT LOT 3-0023852/RAONR	38 GORHAM ST LOWELL MA	0.48 SW	+ 30	181
45	STATE	ZAYRE STORE 3-0002798/RAO	125 CHURCH ST LOWELL MA 01850	0.48 SE	+ 26	184
45	LUST	ZAYRE STORE 3-0002798/RAO	125 CHURCH ST LOWELL MA 01850	0.48 SE	+ 26	185
46	LUST	LOWELL HOUSING AUTH 3-0016801/RAO	572 LAKEVIEW AVE LOWELL MA 01853	0.48 NW	+ 13	186
47	STATE	COMP U TUNE FMR 3-0004664/TIERII	205 CHURCH ST LOWELL MA 01850	0.49 SE	+ 17	188
47	LUST	COMP U TUNE FMR 3-0004664/TIERII	205 CHURCH ST LOWELL MA 01850	0.49 SE	+ 17	190
48	STATE	PROPERTIES 3-0025403/RAO	UNKNOWN LOWELL MA 01852	0.49 SW	+ 29	192
48	LUST	JAM PARKING GARAGE 3-0026258/RAONR	115 MIDDLESEX ST LOWELL MA 01852	0.49 SW	+ 29	195
49	STATE	APPLETON MILLS COMPLEX 3-0026095/RAO	307 JACKSON ST LOWELL MA 01852	0.51 SW	+ 21	197
49	STATE	NO LOCATION AID 3-0020636/RAO	307 JACKSON ST LOWELL MA	0.51 SW	+ 21	200
49	STATE	NO LOCATION AID 3-0026424/RAONR	307 JACKSON ST LOWELL MA 01852	0.51 SW	+ 21	203
50	STATE	FMR FREUDENBERG NON-WOVENS 3-0025687/RAO	221 JACKSON ST LOWELL MA 01852	0.51 SW	+ 19	206
50	STATE	NO LOCATION AID 3-0013252/RAO	221 JACKSON ST LOWELL MA 01852	0.51 SW	+ 19	209
51	STATE	MACHERAS SERVICE MART 3-0001620/REMOPS	66 BROADWAY LOWELL MA 01850	0.53 SW	+ 32	212
51	STATE	MACHEROS SERVICE MART 3-0015257/RAONR	66 BROADWAY LOWELL MA 01852	0.53 SW	+ 32	215
52	STATE	NO LOCATION AID 3-0026423/RAO	291 JACKSON ST LOWELL MA 01852	0.54 SW	+ 18	218
53	STATE	LOWELL HOUSING AUTHORITY 3-0000573/PENNFA	ADAMS ST LOWELL MA 01850	0.55 SW	+ 36	221

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
54	STATE	NO LOCATION AID 3-0028616/TIERII	225 MIDDLESEX ST LOWELL MA 01852	0.58 SW	+ 37	223
55	STATE	CORNER OF HIGH AND ANDOVER ST 3-0022121/REMOPS	276 HIGH ST LOWELL MA 01852	0.59 SE	+ 52	226
56	STATE	NO LOCATION AID 3-0020780/RAO	323 MIDDLESEX ST LOWELL MA 01852	0.65 SW	+ 40	229
57	STATE	PERRY STREET SUBSTA #3 3-0027669/TIERII	53 PERRY ST LOWELL MA 01852	0.65 SE	+ 37	230
58	STATE	NO LOCATION AID 3-0026421/SPECPR	351 JACKSON ST LOWELL MA 01852	0.66 SW	+ 30	233
59	STATE	CITY OF LOWELL DPW 3-0013249/RAO	261 & 295 BROADWAY ST LOWELL MA 01853	0.68 SW	+ 42	235
59	STATE	FMR LOWELL DPW YARD 3-0018083/DPSTRM	261 AND 295 BROADWAY LOWELL MA	0.68 SW	+ 42	238
60	STATE	GASOLINE STATION 3-0001143/RAO	FLETCHER & BROADWAY ST LOWELL MA 01850	0.68 SW	+ 42	239
61	STATE	NO LOCATION AID 3-0026426/SPECPR	379 MIDDLESEX ST LOWELL MA 01852	0.68 SW	+ 42	240
62	STATE	NO LOCATION AID 3-0026425/SPECPR	389 MIDDLESEX ST LOWELL MA 01852	0.69 SW	+ 43	242
63	STATE	LOWELL SUPERIOR COURTHOUSE 3-0020557/TIERII	360 GORHAM ST LOWELL MA 01852	0.76 SW	+ 60	244
64	STATE	NO LOCATION AID 3-0021072/RAO	376 GORHAM ST LOWELL MA 01852	0.78 SW	+ 60	247
64	STATE	SUNOCO SERVICE STA 0005 3 3-0003491/LSPNFA	376 GORHAM ST LOWELL MA 01850	0.78 SW	+ 60	250
65	STATE	NO LOCATION AID 3-0017756/RAO	68 ARCH ST LOWELL MA 01852	0.81 SW	+ 48	251
66	STATE	JOAN FABRICS CORP 3-0001840/PENNFA	122 WESTERN AVE LOWELL MA 01850	0.83 SW	+ 38	253
67	STATE	MARTIN WELDING 3-0004815/WCSPRM	731 DUTTON ST LOWELL MA 01850	0.83 SW	+ 49	255
68	STATE	NO LOCATION AID 3-0017804/RAO	479 BROADWAY LOWELL MA 01852	0.85 SW	+ 46	257
69	STATE	CRNR OF WESTFORD CHELMSFORD ST 3-0022192/RAO	55 CHELMSFORD ST LOWELL MA 01851	0.86 SW	+ 79	260
70	STATE	LOWELL REGIONAL TRANSIT AUTHORITY 3-0024236/RAO	145 THORNDIKE ST LOWELL MA 01852	0.86 SW	+ 65	263
71	STATE	NO LOCATION AID 3-0018153/TIERII	498 BROADWAY LOWELL MA 01854	0.86 SW	+ 44	266

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
72	STATE	SCHOOL ST RIGHT OF WAY 3-0010486/TIER1B	775 DUTTON ST LOWELL MA 01854	0.86 SW	+ 46	269
73	STATE	NO LOCATION AID 3-0025790/DPS	234 MOUNT VERNON ST LOWELL MA 01854	0.87 SW	+ 43	272
74	STATE	NO LOCATION AID 3-0022348/RAO	176 CROSS ST LOWELL MA 01853	0.87 SW	+ 52	275
75	STATE	COMMERCIAL PROPERTY 3-0002629/TIERII	774 DUTTON ST LOWELL MA 01850	0.88 SW	+ 44	276
76	STATE	KINNEYS TEXACO SERVICE 3-0002609/REMOPS	262 PAWTUCKET ST LOWELL MA 01850	0.89 NW	+ 55	278
76	STATE	NO LOCATION AID 3-0013603/RAONR	262 PAWTUCKET ST LOWELL MA 01854	0.89 NW	+ 55	281
77	STATE	PROPOSED MIDDLE SCHOOL 3-0021464/RAO	225 MT VERNON ST LOWELL MA 01852	0.89 SW	+ 45	284
78	STATE	COMPO INDUSTRIES 3-0001154/PENNFA	75 ROGERS ST LOWELL MA 01850	0.91 SE	+ 34	287
79	STATE	CORNER OF SCHOOL ST AND ROCK ST N 3-0020861/RAO	294 SCHOOL ST LOWELL MA 01852	0.94 SW	+ 42	288
79	STATE	PROPOSED MIDDLE SCHOOL 3-0021570/RAO	294 SCHOOL ST LOWELL MA 01852	0.94 SW	+ 42	291
80	STATE	U OF LOWELL NORTH CAMPUS 3-0002544/TIERII	1 UNIVERSITY AVE LOWELL MA 01850	0.94 NW	+ 45	294
81	STATE	NO LOCATION AID 3-0015096/RAO	81 ROGERS ST LOWELL MA	0.95 SE	+ 41	297
82	STATE	BROADWAY CONDOS 3-0002102/RAO	590 BROADWAY LOWELL MA 01850	0.96 SW	+ 55	299
83	STATE	NO LOCATION AID 3-0019216/RAO	38 CARRIAGE DR LOWELL MA	0.99 SE	+ 94	302

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	STATE	250 YARDS NORTH OF LAWRENCE STREET 3-0029186/TIER1D	CONCORD RIV GREENWAY LOWELL MA 01852	NON GC	N/A	N/A
	STATE	NO LOCATION AID 3-0022123/RAO	N RTE 495 LOWELL MA	NON GC	N/A	N/A
	STATE	UTILITY POLE NO 14 3-0020696/RAO	LAWRENCE ST LOWELL MA 01852	NON GC	N/A	N/A
	SPILLS	FRED C CHURCH INSURANCE 3-0024691/RAO	1 MERRIMACK PLZ LOWELL MA 01852	NON GC	N/A	N/A
	SPILLS	N90-2056/CLOSED	MERRIMACK RIVER LOWELL MA	NON GC	N/A	N/A
	SPILLS	N90-0615/CLOSED	MERRIMACK RIVER LOWELL MA	NON GC	N/A	N/A
	SPILLS	N90-0380/CLOSED	MERRIMACK RIVER/AKEN ST.BR LOWELL MA	NON GC	N/A	N/A
	SPILLS80	TEXTILE BRIDGE & AIKENS STREET N88-0719/CLOSED	MERRIMACK RIVER LOWELL MA	NON GC	N/A	N/A
	SPILLS80	N87-1067/CLOSED	MERRIMACK RIVER LOWELL MA	NON GC	N/A	N/A
	SPILLS80	N87-1754/CLOSED	MERRIMACK RIVER LOWELL MA	NON GC	N/A	N/A
	SPILLS80	N83-0111/CLOSED	MERRIMACK RIVER, 277 PAWTU LOWELL MA	NON GC	N/A	N/A
	SPILLS80	N88-1294/CLOSED	MERRIMACK RIVER @ PAWTUCKE LOWELL MA	NON GC	N/A	N/A
	SPILLS80	N89-1174/CLOSED	MERRIMAC RIVER LOWELL MA	NON GC	N/A	N/A
	SWL	GORHAM STREET LANDFILL SL0160.006/INACTIVE	GORHAM ST LOWELL MA 01852	NON GC	N/A	N/A
	SWL	LOWELL LANDFILL SL0160.003/INACTIVE	NESMITH ST LOWELL MA 01850	NON GC	N/A	N/A
	SWL	LOWELL LANDFILL SL0160.005/INACTIVE	METHUEN ST LOWELL MA L, MA	NON GC	N/A	N/A
	UST	B00T MILLS MUSEUM 0-022777/IN USE	115 JOHN ST LOWELL MA 01852	NON GC	N/A	N/A
	LUST	BETWEEN EXITS 37 AND 38 3-0029663/RAO	ROUTE 495N LOWELL MA 01852	NON GC	N/A	N/A
	LUST	HAMILTON CANAL DISTRICT 3-0027400/SPECPR	JACKSON MIDDLESEX & KING S LOWELL MA	NON GC	N/A	N/A
	TRIBALLA	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-01852/	UNKNOWN MA 01852	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

TOTAL: 154 **GEOCODED:** 134 **NON GEOCODED:** 20 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 3 **DIST/DIR:** 0.03 SE **ELEVATION:** 73 **MAP ID:** 1

NAME:	KONARKA TECHNOLOGIES INC	**REV:**	1/10/12
ADDRESS:	100 FOOT OF JOHN ST	**ID1:**	MAR000505446
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	SGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

SITE INFORMATION

CONTACT INFORMATION: WILLIAM AHEARN
116 JOHN ST 3RD FL SUITE 12
LOWELL MA 018520000

PHONE: 7815691443

OWNER NAME: BOOTT COTTON MILLS LLC
OWNER TYPE: P-PRIVATE
OPERATOR: KONARKA TECHNOLOGIES INC
OPERATOR_TYPE: P-PRIVATE
MAILING ADDRESS: 116 JOHN ST 3RD FL SUITE 12

UNIVERSE INFORMATION:

RECEIVED DATE: 01/24/2009

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NO ENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NO GW CONTROLS: N- NO
LAND TYPE: P-PRIVATE SHORT TERM GEN: N
TRANS FACILITY: N REC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NO MIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NO TSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NO ONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NO UNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NO UNIV WASTE DEST FAC: N
USED OIL TRANS: N - NO USED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NO USED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: N USED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

334413 - SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 3 **DIST/DIR:** 0.03 SE **ELEVATION:** 73 **MAP ID:** 1

NAME:	KONARKA TECHNOLOGIES INC	**REV:**	1/10/12
ADDRESS:	100 FOOT OF JOHN ST	**ID1:**	MAR000505446
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	SGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
D002 - Corrosive waste
D003 - Reactive waste
D005 - Barium
D007 - Chromium
D009 - Mercury
D011 - Silver
D021 - Chlorobenzene
D022 - Chloroform
D023 - o-Cresol
D033 - Hexachlorobutadiene
D035 - Methyl ethyl ketone
F002 - The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2, trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003 - The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent non- halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F005 - The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
MA01
MA95
MA99
P008 - 4-Aminopyridine (OR) 4-Pyridinamine
P014 - Benzenethiol (OR) Thiophenol
P022 - Carbon disulfide
P029 - Copper cyanide (OR) Copper cyanide Cu(CN)
P101 - Ethyl cyanide (OR) Propanenitrile
P105 - Sodium azide
U134 - Hydrofluoric acid (C,T) (OR) Hydrogen fluoride (C,T)

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 5 **DIST/DIR:** 0.03 SE **ELEVATION:** 71 **MAP ID:** 2

NAME:	LOWELL NATIONAL HISTORICAL PARK	**REV:**	1/10/12
ADDRESS:	400 FOOT OF JOHN ST	**ID1:**	MAC300001161
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	VGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

SITE INFORMATION

CONTACT INFORMATION: TED DAVIS
FACILITY MANAGER
67 KIRK ST MA 018520000

PHONE: 9782751721

OWNER NAME: NATIONAL PARK SERVICWE
OWNER TYPE: F-FEDERAL
OPERATOR: LOWELL NATIONAL HISTORICAL PARK
OPERATOR_TYPE: S-STATE
MAILING ADDRESS: 67 KIRK ST
LOWELL,
UNIVERSE INFORMATION:

RECEIVED DATE: 12/18/2003

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NO ENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NO GW CONTROLS: N- NO
LAND TYPE: F-FEDERAL SHORT TERM GEN: N
TRANS FACILITY: N REC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NO MIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NO TSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NO ONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NO UNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NO UNIV WASTE DEST FAC: N
USED OIL TRANS: N - NO USED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NO USED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: N USED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

71212 - HISTORICAL SITES

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 5 **DIST/DIR:** 0.03 SE **ELEVATION:** 71 **MAP ID:** 2

NAME:	LOWELL NATIONAL HISTORICAL PARK	**REV:**	1/10/12
ADDRESS:	400 FOOT OF JOHN ST	**ID1:**	MAC300001161
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	VGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

VIOLATION NUMBER: 1 RESPONSIBLE: E - EPA
DETERMINED: 10/12/2010 DETERMINED BY: E - EPA
CITATION: RESOLVED: 11/07/2011
TYPE: GENERATORS - PRE-TRANSPORT

VIOLATION NUMBER: 2 RESPONSIBLE: E - EPA
DETERMINED: 10/12/2010 DETERMINED BY: E - EPA
CITATION: RESOLVED: 10/12/2010
TYPE: TSD - CONTAINER USE AND MANAGEMENT

VIOLATION NUMBER: 3 RESPONSIBLE: E - EPA
DETERMINED: 10/12/2010 DETERMINED BY: E - EPA
CITATION: RESOLVED: 11/07/2011
TYPE: UNIVERSAL WASTE - SMALL QUANTITY HANDLERS

VIOLATION NUMBER: 4 RESPONSIBLE: E - EPA
DETERMINED: 10/12/2010 DETERMINED BY: E - EPA
CITATION: RESOLVED: 11/07/2011
TYPE: UNIVERSAL WASTE - SMALL QUANTITY HANDLERS

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste
MA01

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 73 **DIST/DIR:** 0.03 SE **ELEVATION:** 72 **MAP ID:** 3

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	300 FOOT OF JOHN ST	**ID1:**	3-0025037
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: WATERBODY, INDUSTRIAL, RESIDNTIAL,
SOURCE: TRANSFORM;
SITE DESCRIPTION:

CHEMICALS

MINERAL OIL 300 GAL

SITE ACTIONS

LSP INVOLVED: SAMUEL BUTCHER

ACT DATE: 7/14/2005
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
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: 7/14/2005
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: 7/14/2005
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: 7/14/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 73 **DIST/DIR:** 0.03 SE **ELEVATION:** 72 **MAP ID:** 3

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	300 FOOT OF JOHN ST	**ID1:**	3-0025037
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: 7/15/2005
ACT USE LIMITATION:
ACT STATUS: FLDISS
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: 9/15/2005
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: RELEASE NOTIFICATION SUBMITTED THROUGH EDEP
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: 9/15/2005
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: 9/15/2005
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: 10/3/2005
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 4 **DIST/DIR:** 0.06 SW **ELEVATION:** 76 **MAP ID:** 4

NAME: LOWELL HIGH SCHOOL
ADDRESS: 50 FRENCH ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: EPA

REV: 1/10/12
ID1: MAR000010918
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: ENVR ENGINEER
50 FRENCH ST
LOWELL MA 01854

PHONE: 9999999999

OWNER NAME: CITY OF LOWELL
OWNER TYPE: M-MUNICIPAL
OPERATOR: LOWELL HIGH SCHOOL
OPERATOR_TYPE: P-PRIVATE
MAILING ADDRESS: 50 FRENCH STREET
LOWELL, MA 018540
UNIVERSE INFORMATION:

RECEIVED DATE: 06/26/1998

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NO ENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NO GW CONTROLS: N- NO
LAND TYPE: M-MUNICIPAL SHORT TERM GEN: N
TRANS FACILITY: N REC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NO MIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NO TSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NO ONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NO UNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NO UNIV WASTE DEST FAC: N
USED OIL TRANS: N - NO USED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NO USED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: N USED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 4 **DIST/DIR:** 0.06 SW **ELEVATION:** 76 **MAP ID:** 4

NAME:	LOWELL HIGH SCHOOL	**REV:**	1/10/12
ADDRESS:	50 FRENCH ST	**ID1:**	MAR000010918
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	VGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 85 **DIST/DIR:** 0.06 SW **ELEVATION:** 76 **MAP ID:** 4

NAME: HIGH SCHOOL
ADDRESS: 50 FRENCH ST
LOWELL MA 01852
MIDDLESEX
CONTACT: BRADLEY, R
SOURCE:

REV:
ID1: N89-0133
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19890130 SPILL TIME: 01:15PM
DATE REPORTED: 19890110 REPORT TIME: 02:05PM
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT: SPILL
MATERIAL SPILLED: ACID
AMT RPTD SPILLED: NONE _____ ACTUAL AMT SPILLED: NONE _____
SOURCE OF SPILL:
PET/HAZ: HAZARDOUS VIR/WASTE: VIRGIN
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 273

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 28 **DIST/DIR:** 0.10 SE **ELEVATION:** 79 **MAP ID:** 5

NAME: GASOLINE STATION FMR
ADDRESS: 70 FRENCH & AMORY STS
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001975
ID2:
STATUS: TIER1D
PHONE:

SITE INFORMATION

STATUS: TIER1D - Tier1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.

LTBI: 1/15/1989 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: FEDERAL,
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

ACT DATE: 1/15/1989
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 2/11/2003
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 7/20/2005
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 8/4/2008
ACT USE LIMITATION:
ACT STATUS: APPREC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 9/15/2008
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 28 **DIST/DIR:** 0.10 SE **ELEVATION:** 79 **MAP ID:** 5

NAME: GASOLINE STATION FMR
ADDRESS: 70 FRENCH & AMORY STS
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001975
ID2:
STATUS: TIER1D
PHONE:

ACT DATE: 12/29/2009
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 5/12/2010
ACT USE LIMITATION:
ACT STATUS: APPACC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 1/21/2011
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/28/2011
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 105 **DIST/DIR:** 0.10 SE **ELEVATION:** 79 **MAP ID:** 5

NAME: GASOLINE STATION FMR
ADDRESS: 70 FRENCH AMORY ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001975
ID2:
STATUS: TIER1D
PHONE:

SITE INFORMATION

STATUS: TIER1D - Tier1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.

LTBI: 1/15/1989 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: FEDERAL,
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

ACT DATE: 1/15/1989
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 2/11/2003
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 7/20/2005
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 8/4/2008
ACT USE LIMITATION:
ACT STATUS: APPREC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 9/15/2008
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 105 **DIST/DIR:** 0.10 SE **ELEVATION:** 79 **MAP ID:** 5

NAME:	GASOLINE STATION FMR	**REV:**	1/3/12
ADDRESS:	70 FRENCH AMORY ST	**ID1:**	3-0001975
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	TIER1D
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 12/29/2009
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 5/12/2010
ACT USE LIMITATION:
ACT STATUS: APPACC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 1/21/2011
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/28/2011
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 84 **DIST/DIR:** 0.10 SE **ELEVATION:** 85 **MAP ID:** 6

NAME: CITY OF LOWELL
ADDRESS: FRENCH & BROOKINGS STREETS
LOWELL MA 01852
MIDDLESEX
CONTACT: FAGAN, J
SOURCE:

REV:
ID1: N88-1515
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19880928 SPILL TIME:
DATE REPORTED: 19880928 REPORT TIME: 01:45PM
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT: TANK REMOVAL
MATERIAL SPILLED: #4 FUEL OIL
AMT RPTD SPILLED: ---------- ---------- ACTUAL AMT SPILLED: ---------- ----------
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM VIR/WASTE: ------
PCB LEVEL: ----------

ENVIRONMENTAL IMPACT: SOIL

LUST?: YES SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 6 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 7

NAME:	PERFORMANCE INDICATOR LLC	**REV:**	4/1/10
ADDRESS:	116 JOHN ST	**ID1:**	MV9784594500
	LOWELL MA 01852	**ID2:**	MA HAZ WASTE GENERATOR
	MIDDLESEX	**STATUS:**	VSQG-FED
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

SITE INFORMATION

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WASTE PREVENTION - HAZARDOUS WASTE GENERATOR

VQG-MA= Very Small Quantity Generator of hazardous waste or waste oil (Less than 220 pounds or 27 gallons/month)

SQN-MA = Small Quantity Generator of waste oil (220 to 2,200 ponds or 27 to 270 gallons/month)

VSQG-FED = very small quantity generator - generates between 0-220 lbs/mo and no acutely hazardous waste, and < 2,200 lbs (250 gals) accumulated on-site (from RCRA)

SQG-FED - small quantity generator - generates between 220-2,200 lbs/mo or 0-2.2 lbs/mo acutely hazardous waste; and not > 13,200 lbs (1500 gals) accumulated on-site (from RCRA)

LQG-FED: - large quantity generator - generates > 2,200 lbs/mo or > 2.2 lbs/mo of acutely hazardous waste (from RCRA)

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 7 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 7

NAME:	PERFORMANCE INDICATOR LLC	**REV:**	1/10/12
ADDRESS:	116 JOHN ST	**ID1:**	MAC300015864
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	SGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

SITE INFORMATION

CONTACT INFORMATION: ALAN SCHULER
116 JOHN ST
LOWELL MA 018520000

PHONE: 9784594500

OWNER NAME: NOMIST REALTY/BBOT/LOWELL LLC
OWNER TYPE: P-PRIVATE
OPERATOR: DANIEL SMITH CEO
OPERATOR_TYPE: P-PRIVATE
MAILING ADDRESS: 116 JOHN ST
LOWELL, MA
UNIVERSE INFORMATION:

RECEIVED DATE: 05/04/2011

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NO ENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NO GW CONTROLS: N- NO
LAND TYPE: P-PRIVATE SHORT TERM GEN: N
TRANS FACILITY: N REC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NO MIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NO TSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NO ONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NO UNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NO UNIV WASTE DEST FAC: N
USED OIL TRANS: N - NO USED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NO USED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: N USED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

54171 - RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 8 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	SKY COMPUTERS INC	**REV:**	1/10/12
ADDRESS:	FOOT OF JOHN ST	**ID1:**	MAD039317870
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	VGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

SITE INFORMATION

CONTACT INFORMATION: JULIA SILVERMAN
FOOT OF JOHN ST
LOWELL MA 01852

PHONE: 5084546200

OWNER NAME: SKY COMPUTERS INC
OWNER TYPE: P-PRIVATE
OPERATOR: SKY COMPUTERS INC
OPERATOR_TYPE: P-PRIVATE
MAILING ADDRESS: FOOT OF JOHN ST
LOWELL, MA 01852
UNIVERSE INFORMATION:

RECEIVED DATE: 12/01/1986

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N-NO ENGINEERING CONTROL: N
HUMAN EXPOSURE: N-NO GW CONTROLS: N- NO
LAND TYPE: P-PRIVATE SHORT TERM GEN: N
TRANS FACILITY: N REC WASTE FROM OFF SITE: N

IMPORTER ACTIVITY: N - NO MIXED WASTE GEN: N - NO
TRANS ACTIVITY: N - NO TSD ACTIVITY: N - NO
RECYCLER ACTIVITY: N - NO ONSITE BURNER EXEMPT: N - NO
FURNACE EXEMPTION: N - NO UNDER INJECT ACTIVITY: N - NO
REC WASTE FROM OFF SITE: N - NO UNIV WASTE DEST FAC: N
USED OIL TRANS: N - NO USED OIL PROCESSOR: N - NO
USED OIL REFINER: N - NO USED OIL FUEL BURNER: N - NO
UO FUEL MARKETER TO BURNER: N USED OIL SPEC MARKETER: N - NO

NAIC INFORMATION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

RCRAGN

SEARCH ID: 8 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	SKY COMPUTERS INC	**REV:**	1/10/12
ADDRESS:	FOOT OF JOHN ST	**ID1:**	MAD039317870
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	VGN
CONTACT:		**PHONE:**	
SOURCE:	EPA		

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - Ignitable waste

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 24 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME: FORMER BOOTT COTTON MILL
ADDRESS: 130 JOHN ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026688
ID2:
STATUS: TIER1D
PHONE:

SITE INFORMATION

STATUS: TIER1D - Tier1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

TOTAL POLYCHLORINATED BIPHENYL CMPDS 22.73 PPM

SITE ACTIONS

LSP INVOLVED: 5323

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 4/17/2007
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 5/3/2007

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 24 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME: FORMER BOOTT COTTON MILL
ADDRESS: 130 JOHN ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026688
ID2:
STATUS: TIER1D
PHONE:

ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 1/17/2008
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 2/5/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 7/17/2008
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 8/4/2008
ACT USE LIMITATION:
ACT STATUS: APPREC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 5/12/2010
ACT USE LIMITATION:
ACT STATUS: APPACC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 1/19/2011
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/28/2011
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 102 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	BOOT MILL SOUTH	**REV:**	
ADDRESS:	JOHN ST	**ID1:**	N93-0517
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	MACAFEE, K	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: 19930423 SPILL TIME:
DATE REPORTED: 19930423 REPORT TIME: 10:30AM
SPILL NOTIFIER: GREG DRIPPS NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: UNKNOWN
MATERIAL SPILLED: MISCELLANEOUS OIL
AMT RPTD SPILLED: SHEEN ---------- ACTUAL AMT SPILLED: ---------- ----------
SOURCE OF SPILL: UNKNOWN
PET/HAZ: PETROLEUM VIR/WASTE: ------
PCB LEVEL: ----------

ENVIRONMENTAL IMPACT:

LUST?: NO SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 103 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	BOOTT HYDRO POWER WHEEL 6	**REV:**	1/3/12
ADDRESS:	130 JOHN ST	**ID1:**	3-0027777
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: ROADWAY,
SOURCE: PIPE;
SITE DESCRIPTION:

CHEMICALS

HYDRAULIC FLUID 30 GAL
HYDRAULIC OIL 1.4 GAL

SITE ACTIONS

LSP INVOLVED: ROBERT CAPACCIO

ACT DATE: 6/22/2008
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: 6/22/2008
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: 6/22/2008
ACT USE LIMITATION:
ACT STATUS: FLDDO
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: 7/18/2008
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: 8/21/2008
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 103 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	BOOTT HYDRO POWER WHEEL 6	**REV:**	1/3/12
ADDRESS:	130 JOHN ST	**ID1:**	3-0027777
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 8/21/2008
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: 8/21/2008
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: 1/5/2009
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 1/5/2009
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 104 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME: FORMER BOOTT COTTON MILL
ADDRESS: 130 JOHN ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026688
ID2:
STATUS: TIER1D
PHONE:

SITE INFORMATION

STATUS: TIER1D - Tier1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

TOTAL POLYCHLORINATED BIPHENYL CMPDS 22.73 PPM

SITE ACTIONS

LSP INVOLVED: 5323

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 3/20/2007
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 4/17/2007
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 5/3/2007

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 104 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME: FORMER BOOTT COTTON MILL
ADDRESS: 130 JOHN ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026688
ID2:
STATUS: TIER1D
PHONE:

ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 1/17/2008
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 2/5/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 7/17/2008
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 8/4/2008
ACT USE LIMITATION:
ACT STATUS: APPREC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 5/12/2010
ACT USE LIMITATION:
ACT STATUS: APPACC
ACT TYPE: FINANCIAL INABILITY
RAO CLASS:

ACT DATE: 1/19/2011
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/28/2011
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 106 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	JOHN ST POWER HOUSE	**REV:**	1/3/12
ADDRESS:	JOHN ST	**ID1:**	3-0011011
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: INDUSTRIAL, WATERBODY,
SOURCE: FITTING;
SITE DESCRIPTION:

CHEMICALS

LUBRICATING OIL 2 GAL
HYDRAULIC FLUID 2 GAL

SITE ACTIONS

LSP INVOLVED: CHARLES TEALE

ACT DATE: 5/17/1994
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: 5/17/1994
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: 6/8/1994
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: 7/18/1994
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 106 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:	JOHN ST POWER HOUSE	**REV:**	1/3/12
ADDRESS:	JOHN ST	**ID1:**	3-0011011
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 8/16/1994
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 83 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME: BOOTH MILLS
ADDRESS: FRENCH & BRIDGE STS
LOWELL MA 01852
MIDDLESEX
CONTACT: GUARCIERIELLO, T
SOURCE:

REV:
ID1: N88-0506
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19880408 SPILL TIME:
DATE REPORTED: 19880408 REPORT TIME: 11:30AM
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT: RUPTURE
MATERIAL SPILLED: #6 FUEL OIL
AMT RPTD SPILLED: NONE _____ ACTUAL AMT SPILLED: NONE _____
SOURCE OF SPILL: PIPE/HOSE/LINE
PET/HAZ: PETROLEUM VIR/WASTE: VIRGIN
PCB LEVEL:

ENVIRONMENTAL IMPACT:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 112 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:
ADDRESS: BOOT MILLS GATEHOUSE @ DRAIN
LOWELL MA 01852
MIDDLESEX
CONTACT: EREKSON
SOURCE:

REV:
ID1: N82-5072
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19820312 SPILL TIME:
DATE REPORTED: REPORT TIME:
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT:
MATERIAL SPILLED: MISCELLANEOUS OIL
AMT RPTD SPILLED: ACTUAL AMT SPILLED:
SOURCE OF SPILL:
PET/HAZ: VIR/WASTE:
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: PREPARE REPORT:
DAYS/CLOSE: 1

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 86 **DIST/DIR:** 0.12 SW **ELEVATION:** 92 **MAP ID:** 8

NAME:
ADDRESS: BOOT MILL BOILER ROOM
LOWELL MA 01852
MIDDLESEX
CONTACT: CASHINS
SOURCE:

REV:
ID1: N82-5066
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19820306 SPILL TIME:
DATE REPORTED: REPORT TIME:
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT:
MATERIAL SPILLED: #6 FUEL OIL
AMT RPTD SPILLED: 1500 GAL ACTUAL AMT SPILLED:
SOURCE OF SPILL:
PET/HAZ: VIR/WASTE:
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: PREPARE REPORT:
DAYS/CLOSE: 1

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 81 **DIST/DIR:** 0.12 SE **ELEVATION:** 76 **MAP ID:** 9

NAME:		**REV:**	
ADDRESS:	95 BRIDGE ST	**ID1:**	N90-1616
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	NDI, K	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: 19900928 SPILL TIME: 03:20PM
DATE REPORTED: 19900928 REPORT TIME: 03:50PM
SPILL NOTIFIER: BOB DEMARIS, LOWELL BOH NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: RUPTURE
MATERIAL SPILLED: OTHER MATERIAL -->
AMT RPTD SPILLED: 1-10 GALLONS ACTUAL AMT SPILLED: 10-50 GALLONS
SOURCE OF SPILL: TRANSFORMER
PET/HAZ: PETROLEUM VIR/WASTE: WASTE
PCB LEVEL: NONE

ENVIRONMENTAL IMPACT:

LUST?: NO SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: -136

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 78 **DIST/DIR:** 0.14 SE **ELEVATION:** 79 **MAP ID:** 10

NAME:	ROAD SURFACE SPILL	**REV:**	
ADDRESS:	BRIDGE ST/FRENCH ST	**ID1:**	N93-0950
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	OTHER	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: 19930714 SPILL TIME:
DATE REPORTED: 19930714 REPORT TIME: 01:40PM
SPILL NOTIFIER: ROLAND BROOKS/FD NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: SPILL
MATERIAL SPILLED: DIESEL FUEL
AMT RPTD SPILLED: UNKNOWN ---------- ACTUAL AMT SPILLED: ---------- ----------
SOURCE OF SPILL: UNKNOWN
PET/HAZ: PETROLEUM VIR/WASTE: ------
PCB LEVEL: ----------

ENVIRONMENTAL IMPACT:

LUST?: NO SOIL CONTAMINATED?:
CONTRACTOR: CLEAN HARBORS PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

NFRAP

SEARCH ID: 2 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: US POSTAL SERVICE
ADDRESS: POST OFFICE SQ
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: EPA

REV: 9/30/11
ID1: MA2180410274
ID2: 0102485
STATUS: NFRAP-N
PHONE:

DESCRIPTION:
Site has been cleaned up via the state program.
ACTION/QUALITY AGENCY/RPS START/RAA END
ARCHIVE SITE EPA In-House 11/30/1999

DISCOVERY EPA Fund-Financed 9/28/1989

PRELIMINARY ASSESSMENT EPA Fund-Financed 4/29/1995
NFRAP: NO FURTHER REMEDIAL ACTION PLANNED

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 74 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: NO LOCATION AID
ADDRESS: 44 POST OFFICE SQ
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015465
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: VAULT; UNKNOWN; CONCRETE;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #6 10 GAL
OIL 10 GAL

SITE ACTIONS

LSP INVOLVED: BRUCE HOSKINS

ACT DATE: 12/16/1997
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0000354
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/23/1997
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 8/23/1997

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 74 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: NO LOCATION AID
ADDRESS: 44 POST OFFICE SQ
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015465
ID2:
STATUS: RAONR
PHONE:

ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 9/19/1997
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/31/1997
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 11/5/1997
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 12/16/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/16/1997
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 12/16/1997
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 75 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME:	POST OFFICE	**REV:**	
ADDRESS:	44 POST OFFICE SQ	**ID1:**	N93-0528
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	GORRASI, M	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: 19930426 SPILL TIME:
DATE REPORTED: 19930427 REPORT TIME: 09:15AM
SPILL NOTIFIER: MIKE ROSTOWSKI/WEHRAN NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: TEST FAILURE
MATERIAL SPILLED: GASOLINE
AMT RPTD SPILLED: ---------- ---------- ACTUAL AMT SPILLED: ---------- ----------
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM VIR/WASTE: VIRGIN
PCB LEVEL: ----------

ENVIRONMENTAL IMPACT:

LUST?: YES SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 76 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: POST OFFICE SQ
ADDRESS: 44 POST OFFICE SQ
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000354
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: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: VACANT,
SOURCE: UST;
SITE DESCRIPTION: CONTAINED IN A LUST; VIRGIN OIL PRESENT; RELEASE TO SOIL;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 5/14/1997
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 3/14/1997
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 2/18/1997
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 3/14/1997
AUL RESTRICTION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 76 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: POST OFFICE SQ
ADDRESS: 44 POST OFFICE SQ
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000354
ID2:
STATUS: RAO
PHONE:

LSP: PAUL HUGHES
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 9/26/1997
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 3/23/1998
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/29/1998
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 3/4/1999
AUL RESTRICTION: NOT
LSP: BRUCE HOSKINS
RA STATUS: RAO STATEMENT RECEIVED
RAS 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

TS DATE: 10/31/1997
AUL RESTRICTION:
LSP:
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 1/15/1987
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
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: 6/14/1989
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 76 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: POST OFFICE SQ
ADDRESS: 44 POST OFFICE SQ
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000354
ID2:
STATUS: RAO
PHONE:

ACT STATUS: NORA
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: 6/14/1989
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: 2/18/1997
ACT USE LIMITATION:
ACT STATUS: LSPFA
ACT TYPE: TRANSITION REGULATIONS
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: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 5/14/1997
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 9/26/1997
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 10/31/1997
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 87 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME:
ADDRESS: BEHIND NEW POST OFFICE
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE:

REV:
ID1: N80-5007
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19800123 SPILL TIME:
DATE REPORTED: REPORT TIME:
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT:
MATERIAL SPILLED:
AMT RPTD SPILLED: 30,000 GAL ACTUAL AMT SPILLED:
SOURCE OF SPILL:
PET/HAZ: VIR/WASTE:
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: PREPARE REPORT:
DAYS/CLOSE: 1

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 146 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: POST OFFICE SQ
ADDRESS: 44 POST OFFICE SQ
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000354
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: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: VACANT,
SOURCE: UST;
SITE DESCRIPTION: RELEASE TO SOIL; CONTAINED IN A LUST; VIRGIN OIL PRESENT;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 3/14/1997
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 3/23/1998
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/14/1997
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 2/18/1997
AUL RESTRICTION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 146 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: POST OFFICE SQ
ADDRESS: 44 POST OFFICE SQ
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000354
ID2:
STATUS: RAO
PHONE:

LSP: PAUL HUGHES
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 5/29/1998
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 3/4/1999
AUL RESTRICTION: NOT
LSP: BRUCE HOSKINS
RA STATUS: RAO STATEMENT RECEIVED
RAS 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

TS DATE: 10/31/1997
AUL RESTRICTION:
LSP:
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 3/14/1997
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 9/26/1997
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/15/1987
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
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: 6/14/1989
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 146 **DIST/DIR:** 0.15 NW **ELEVATION:** 86 **MAP ID:** 11

NAME: POST OFFICE SQ
ADDRESS: 44 POST OFFICE SQ
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000354
ID2:
STATUS: RAO
PHONE:

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: 6/14/1989
ACT USE LIMITATION:
ACT STATUS: NORA
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: 2/18/1997
ACT USE LIMITATION:
ACT STATUS: LSPFA
ACT TYPE: TRANSITION REGULATIONS
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: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 3/14/1997
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 5/14/1997
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 9/26/1997
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 10/31/1997
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 77 **DIST/DIR:** 0.15 NW **ELEVATION:** 64 **MAP ID:** 12

NAME: RIVER PLACE TOWERS
ADDRESS: 115 POST OFFICE SQ
LOWELL MA 01851
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0014505
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

TPH 1100 PPM

SITE ACTIONS

LSP INVOLVED: KEVIN KAVANAUGH

LSP INVOLVED: MICHAEL BROWN

ACT DATE: 11/15/1996
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

ACT DATE: 11/15/1996
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: 12/5/1996
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: 1/24/1997
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 1/27/1997
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 77 **DIST/DIR:** 0.15 NW **ELEVATION:** 64 **MAP ID:** 12

NAME: RIVER PLACE TOWERS
ADDRESS: 115 POST OFFICE SQ
LOWELL MA 01851
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0014505
ID2:
STATUS: RAO
PHONE:

ACT DATE: 6/6/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 11/10/1997
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: 11/14/1997
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: 11/14/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 7/14/1999
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: 8/3/1999
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: 7/24/2001
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN 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: 7/25/2001
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 77 **DIST/DIR:** 0.15 NW **ELEVATION:** 64 **MAP ID:** 12

NAME:	RIVER PLACE TOWERS	**REV:**	1/3/12
ADDRESS:	115 POST OFFICE SQ	**ID1:**	3-0014505
	LOWELL MA 01851	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 12/21/2001
ACT USE LIMITATION:
ACT STATUS: AMENDMENT RECEIVED
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: 12/28/2001
ACT USE LIMITATION:
ACT STATUS: FOLCD
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: 12/28/2001
ACT USE LIMITATION:
ACT STATUS: AFUCS
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 80 **DIST/DIR:** 0.15 NW **ELEVATION:** 64 **MAP ID:** 12

NAME:		**REV:**	
ADDRESS:	115 POST OFFICE SQ.	**ID1:**	N90-1484
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	MICHAUD, J	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: SPILL TIME:
DATE REPORTED: 19900907 REPORT TIME: 11:30AM
SPILL NOTIFIER: BOB DEMARAIS, BOH NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: DUMPING
MATERIAL SPILLED: WASTE OIL
AMT RPTD SPILLED: UNKNOWN GALLONS ACTUAL AMT SPILLED: UNKNOWN GALLONS
SOURCE OF SPILL: OTHER SOURCE > UNK
PET/HAZ: PETROLEUM VIR/WASTE: WASTE
PCB LEVEL: UNKNOWN

ENVIRONMENTAL IMPACT:

LUST?: NO SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: -4

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 71 **DIST/DIR:** 0.18 NE **ELEVATION:** 76 **MAP ID:** 13

NAME:	STARR REALTY PROPERTY	**REV:**	1/3/12
ADDRESS:	43 LAKEVIEW AVE	**ID1:**	3-0000852
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	DPS
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

SITE INFORMATION

STATUS: DPS - (Downgradient Property Status): A site where DPS Submittal to DEP has stated that contamination on the property is coming from an Upgradient property.

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: ANTHONY ANDRONICO

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 11/28/2006
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/9/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

ACT DATE: 9/17/2007
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 108 **DIST/DIR:** 0.18 NE **ELEVATION:** 76 **MAP ID:** 13

NAME:	STARR REALTY PROPERTY	**REV:**	1/3/12
ADDRESS:	43 LAKEVIEW AVE	**ID1:**	3-0000852
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	DPS
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

SITE INFORMATION

STATUS: DPS - (Downgradient Property Status): A site where DPS Submittal to DEP has stated that contamination on the property is coming from an Upgradient property.

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: ANTHONY ANDRONICO

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 11/28/2006
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/9/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

ACT DATE: 9/17/2007
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 82 **DIST/DIR:** 0.18 SE **ELEVATION:** 81 **MAP ID:** 14

NAME:
ADDRESS: BRIDGE/MERRIMAC ST
LOWELL MA 01852
CONTACT: FAGAN, J
SOURCE: MA DEP

REV:
ID1: N93-1133
ID2:
STATUS: CLOSED
PHONE:

CASE CLOSED? YES
SPILL DATE: 19930824 SPILL TIME:
DATE REPORTED: 19930824 REPORT TIME:
SPILL NOTIFIER: NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT:
MATERIAL SPILLED:
AMT RPTD SPILLED: ACTUAL AMT SPILLED:
SOURCE OF SPILL:
PET/HAZ: VIR/WASTE:
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 96 **DIST/DIR:** 0.20 SE **ELEVATION:** 66 **MAP ID:** 15

NAME:	TREMONT MILLS SITE	**REV:**	1/3/12
ADDRESS:	FRENCH ST	**ID1:**	3-0019880
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: TRANSFORM; UNKNOWN;
SITE DESCRIPTION:

CHEMICALS

PETROLEUM HYDROCARBONS 1400 MG/KG

SITE ACTIONS

LSP INVOLVED: RONALD RICHARDS

LSP INVOLVED: JONATHAN MOORE

ACT DATE: 8/10/2000
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

ACT DATE: 8/10/2000
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: 11/22/2000
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 96 **DIST/DIR:** 0.20 SE **ELEVATION:** 66 **MAP ID:** 15

NAME: TREMONT MILLS SITE
ADDRESS: FRENCH ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019880
ID2:
STATUS: RAO
PHONE:

ACT DATE: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 10/26/2007
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: 7/2/2008
ACT USE LIMITATION:
ACT STATUS: EPETOP
ACT TYPE: TIER CLASSIFICATION
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: 7/2/2008
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 7/2/2008
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 7/9/2008
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 96 **DIST/DIR:** 0.20 SE **ELEVATION:** 66 **MAP ID:** 15

NAME: TREMONT MILLS SITE
ADDRESS: FRENCH ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019880
ID2:
STATUS: RAO
PHONE:

ACT DATE: 9/8/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 10/10/2008
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 3/10/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 6/26/2009
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
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: 9/4/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 3/8/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 6/30/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
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: 6/30/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 110 **DIST/DIR:** 0.20 SE **ELEVATION:** 66 **MAP ID:** 15

NAME: TREMONT MILLS SITE
ADDRESS: FRENCH ST
LOWELL MA
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019880
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: TRANSFORM; UNKNOWN;
SITE DESCRIPTION:

CHEMICALS

PETROLEUM HYDROCARBONS 1400 MG/KG

SITE ACTIONS

LSP INVOLVED: JONATHAN MOORE

LSP INVOLVED: RONALD RICHARDS

ACT DATE: 8/10/2000
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: 8/10/2000
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

ACT DATE: 11/22/2000
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 110 **DIST/DIR:** 0.20 SE **ELEVATION:** 66 **MAP ID:** 15

NAME: TREMONT MILLS SITE
ADDRESS: FRENCH ST
LOWELL MA
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019880
ID2:
STATUS: RAO
PHONE:

ACT DATE: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 8/10/2001
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
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: 10/26/2007
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: 7/2/2008
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 7/2/2008
ACT USE LIMITATION:
ACT STATUS: EPETOP
ACT TYPE: TIER CLASSIFICATION
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: 7/2/2008
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 7/9/2008
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 110 **DIST/DIR:** 0.20 SE **ELEVATION:** 66 **MAP ID:** 15

NAME: TREMONT MILLS SITE
ADDRESS: FRENCH ST
LOWELL MA

CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019880
ID2:
STATUS: RAO
PHONE:

ACT DATE: 9/8/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 10/10/2008
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 3/10/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 6/26/2009
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
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: 9/4/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 3/8/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 6/30/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
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: 6/30/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 79 **DIST/DIR:** 0.21 NE **ELEVATION:** 82 **MAP ID:** 16

NAME:	SHELL OIL	**REV:**	
ADDRESS:	350 BRIDGE ST	**ID1:**	N90-0369
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	STEWART, B	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: 19900320 SPILL TIME:
DATE REPORTED: 19900320 REPORT TIME: 03:50PM
SPILL NOTIFIER: TOM CARR NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: LEAK
MATERIAL SPILLED: GASOLINE
AMT RPTD SPILLED: UNKNOWN GALLONS ACTUAL AMT SPILLED: UNKNOWN GALLONS
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM VIR/WASTE: VIRGIN
PCB LEVEL: 51-500 PPM

ENVIRONMENTAL IMPACT: SOIL

LUST?: NO SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 88 **DIST/DIR:** 0.21 SW **ELEVATION:** 86 **MAP ID:** 17

NAME:
ADDRESS: IMPTY LOT ACROSS FROM HIGH
LOWELL MA 01852
CONTACT: DUGGAN
SOURCE:

REV:
ID1: N83-0278
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: 19830907 SPILL TIME:
DATE REPORTED: REPORT TIME:
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT:
MATERIAL SPILLED: TOLUENE
AMT RPTD SPILLED: ACTUAL AMT SPILLED:
SOURCE OF SPILL:
PET/HAZ: VIR/WASTE:
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: PREPARE REPORT:
DAYS/CLOSE: 1

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 95 **DIST/DIR:** 0.22 NE **ELEVATION:** 84 **MAP ID:** 18

NAME: SUNOCO STATION
ADDRESS: 356 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001328
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: 4/15/1989 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: 4900

LSP INVOLVED: ANTHONY ANDRONICO

LSP INVOLVED: WILLIAM BETTERS

TS DATE: 8/7/1998
AUL RESTRICTION:
LSP: MELVILLE DICKENSON
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 8/4/1996
AUL RESTRICTION:
LSP: WILLIAM BETTERS
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/7/1998
AUL RESTRICTION:
LSP: MELVILLE DICKENSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 8/5/1996
AUL RESTRICTION:
LSP: WILLIAM BETTERS

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 95 **DIST/DIR:** 0.22 NE **ELEVATION:** 84 **MAP ID:** 18

NAME: SUNOCO STATION
ADDRESS: 356 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001328
ID2:
STATUS: RAO
PHONE:

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

TS DATE: 8/7/1998
AUL RESTRICTION:
LSP: MELVILLE DICKENSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 8/5/1996
AUL RESTRICTION:
LSP: WILLIAM BETTERS
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 4/15/1989
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: 8/4/1996
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: 8/5/1996
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: 8/5/1996
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: 8/5/1996
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 95 **DIST/DIR:** 0.22 NE **ELEVATION:** 84 **MAP ID:** 18

NAME: SUNOCO STATION
ADDRESS: 356 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001328
ID2:
STATUS: RAO
PHONE:

ACT DATE: 8/7/1998
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: 8/7/1998
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: 8/7/1998
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: 6/29/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/26/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/24/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/25/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/14/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 109 **DIST/DIR:** 0.22 NE **ELEVATION:** 84 **MAP ID:** 18

NAME: SUNOCO STATION
ADDRESS: 356 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001328
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: 4/15/1989 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: ANTHONY ANDRONICO

LSP INVOLVED: WILLIAM BETTERS

LSP INVOLVED: 4900

TS DATE: 8/4/1996
AUL RESTRICTION:
LSP: WILLIAM BETTERS
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/5/1996
AUL RESTRICTION:
LSP: WILLIAM BETTERS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 8/5/1996
AUL RESTRICTION:
LSP: WILLIAM BETTERS
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 8/7/1998
AUL RESTRICTION:
LSP: MELVILLE DICKENSON

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 109 **DIST/DIR:** 0.22 NE **ELEVATION:** 84 **MAP ID:** 18

NAME: SUNOCO STATION
ADDRESS: 356 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001328
ID2:
STATUS: RAO
PHONE:

RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 8/7/1998
AUL RESTRICTION:
LSP: MELVILLE DICKENSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 8/7/1998
AUL RESTRICTION:
LSP: MELVILLE DICKENSON
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

ACT DATE: 4/15/1989
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: 8/4/1996
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: 8/5/1996
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: 8/5/1996
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: 8/5/1996
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 109 **DIST/DIR:** 0.22 NE **ELEVATION:** 84 **MAP ID:** 18

NAME: SUNOCO STATION
ADDRESS: 356 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001328
ID2:
STATUS: RAO
PHONE:

ACT DATE: 8/7/1998
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: 8/7/1998
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: 8/7/1998
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: 6/29/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/26/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/24/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/25/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/14/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS

SEARCH ID: 107 **DIST/DIR:** 0.22 SW **ELEVATION:** 82 **MAP ID:** 19

NAME:	LOWELL SUN	**REV:**	
ADDRESS:	PRESCOTT ST	**ID1:**	N93-0178
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	CLOSED
CONTACT:	BRESNAHAN, C	**PHONE:**	
SOURCE:	MA DEP		

CASE CLOSED? YES
SPILL DATE: 19930216 SPILL TIME:
DATE REPORTED: 19930216 REPORT TIME: 02:15PM
SPILL NOTIFIER: BARRY/SAFETY KLEEN NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: SPILL
MATERIAL SPILLED: OTHER MATERIAL -->
AMT RPTD SPILLED: 1-10 GALLONS ACTUAL AMT SPILLED: ---------- GALLONS
SOURCE OF SPILL: DRUMS
PET/HAZ: PETROLEUM VIR/WASTE: WASTE
PCB LEVEL: NONE

ENVIRONMENTAL IMPACT:

LUST?: --- SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

SPILLS80

SEARCH ID: 111 **DIST/DIR:** 0.23 SW **ELEVATION:** 83 **MAP ID:** 20

NAME: WASTE WATER PLANT
ADDRESS: FIRST STREET; 16 MIDDLE ST
LOWELL MA 01852
MIDDLESEX
CONTACT: MACAFEE, K
SOURCE:

REV:
ID1: N89-0202
ID2:
STATUS: CLOSED
PHONE:

SPILL DATE: SPILL TIME:
DATE REPORTED: REPORT TIME:
SPILL NOTIFIER: NOTIFIER PHONE:

INCIDENT: SPILL
MATERIAL SPILLED: #2 FUEL OIL
AMT RPTD SPILLED: NONE _____ ACTUAL AMT SPILLED: NONE _____
SOURCE OF SPILL:
PET/HAZ: PETROLEUM VIR/WASTE: VIRGIN
PCB LEVEL:

ENVIRONMENTAL IMPACT:

LUST?: SOIL CONTAMINATED?:
CONTRACTOR: NOT USED PREPARE REPORT:
DAYS/CLOSE: 0

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 29 **DIST/DIR:** 0.27 SW **ELEVATION:** 90 **MAP ID:** 21

NAME:	HESS STATION 21509 FMR MERIT OIL	**REV:**	1/3/12
ADDRESS:	253 MERRIMACK ST	**ID1:**	3-0004509
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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 CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL, GASSTATION,
SOURCE: UST;
SITE DESCRIPTION: GASOLINE PRESENT; GAS STATION; RELEASE TO SOIL; GROUNDWATER RELEASE THREAT; PETROLEUM PRESENT; CONTAINED IN A LUST;

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

CHEMICALS

GASOLINE
PETROLEUM

SITE ACTIONS

LSP INVOLVED: N/A

LSP INVOLVED: SCOTT PARKER

LSP INVOLVED: DONALD MAGGIOLI

LSP INVOLVED: PATRICK CORCORAN

LSP INVOLVED: 7713

LSP INVOLVED: BRUCE ROSS

TS DATE: 9/5/2000
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 29 **DIST/DIR:** 0.27 SW **ELEVATION:** 90 **MAP ID:** 21

NAME: HESS STATION 21509 FMR MERIT OIL
ADDRESS: 253 MERRIMACK ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004509
ID2:
STATUS: RAO
PHONE:

TS DATE: 3/1/2000
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 8/23/1999
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 8/9/1999
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 8/4/1997
AUL RESTRICTION:
LSP: DANIEL KOGUT
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/4/1997
AUL RESTRICTION:
LSP: DANIEL KOGUT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 8/4/1997
AUL RESTRICTION:
LSP: DANIEL KOGUT
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE:
ACT USE LIMITATION:
ACT STATUS: APPROV
ACT TYPE: BWS30
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 29 **DIST/DIR:** 0.27 SW **ELEVATION:** 90 **MAP ID:** 21

NAME: HESS STATION 21509 FMR MERIT OIL
ADDRESS: 253 MERRIMACK ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004509
ID2:
STATUS: RAO
PHONE:

ACT DATE:
ACT USE LIMITATION:
ACT STATUS: APPROV
ACT TYPE: BWS03
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/16/1988
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: 12/16/1988
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

ACT DATE: 12/16/1988
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: 8/4/1997
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: 8/4/1997
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: 8/4/1997
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: 3/30/1998
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 121 **DIST/DIR:** 0.27 SW **ELEVATION:** 90 **MAP ID:** 21

NAME:	HESS STATION 21509 FMR MERIT OIL	**REV:**	1/3/12
ADDRESS:	253 MERRIMACK ST	**ID1:**	3-0004509
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

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

LOCATION TYPE: COMMERCIAL, GASSTATION,
SOURCE: UST;
SITE DESCRIPTION: GASOLINE PRESENT; GAS STATION; PETROLEUM PRESENT; RELEASE TO SOIL; GROUNDWATER RELEASE THREAT; CONTAINED IN A LUST;

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

CHEMICALS

GASOLINE
PETROLEUM

SITE ACTIONS

LSP INVOLVED: BRUCE ROSS

LSP INVOLVED: DONALD MAGGIOLI

LSP INVOLVED: N/A

LSP INVOLVED: 7713

LSP INVOLVED: SCOTT PARKER

LSP INVOLVED: PATRICK CORCORAN

TS DATE: 8/4/1997
AUL RESTRICTION:
LSP: DANIEL KOGUT
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 121 **DIST/DIR:** 0.27 SW **ELEVATION:** 90 **MAP ID:** 21

NAME: HESS STATION 21509 FMR MERIT OIL
ADDRESS: 253 MERRIMACK ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004509
ID2:
STATUS: RAO
PHONE:

TS DATE: 9/5/2000
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 8/4/1997
AUL RESTRICTION:
LSP: DANIEL KOGUT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 8/4/1997
AUL RESTRICTION:
LSP: DANIEL KOGUT
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/9/1999
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 8/23/1999
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 3/1/2000
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE:
ACT USE LIMITATION:
ACT STATUS: APPROV
ACT TYPE: BWS30
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 121 **DIST/DIR:** 0.27 SW **ELEVATION:** 90 **MAP ID:** 21

NAME: HESS STATION 21509 FMR MERIT OIL
ADDRESS: 253 MERRIMACK ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004509
ID2:
STATUS: RAO
PHONE:

ACT DATE:
ACT USE LIMITATION:
ACT STATUS: APPROV
ACT TYPE: BWS03
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/16/1988
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: 12/16/1988
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

ACT DATE: 12/16/1988
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: 8/4/1997
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: 8/4/1997
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: 8/4/1997
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: 3/30/1998
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 113 **DIST/DIR:** 0.27 SE **ELEVATION:** 56 **MAP ID:** 22

NAME:	ALONG DAVIDSON ST	**REV:**	1/3/12
ADDRESS:	33 E MERRIMACK ST	**ID1:**	3-0025921
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 10 GAL
GASOLINE

SITE ACTIONS

LSP INVOLVED: JOSEPH JAMMALLO

ACT DATE: 5/17/2006
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: 5/17/2006
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: 5/17/2006
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: 5/17/2006
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF A MODIFIED 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: 5/17/2006
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 113 **DIST/DIR:** 0.27 SE **ELEVATION:** 56 **MAP ID:** 22

NAME: ALONG DAVIDSON ST
ADDRESS: 33 E MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025921
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/22/2006
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: 5/22/2006
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF A MODIFIED 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: 5/25/2006
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: 5/25/2006
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF A MODIFIED 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: 5/26/2006
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: 6/20/2006
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: 7/17/2006
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: 9/12/2006
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 113 **DIST/DIR:** 0.27 SE **ELEVATION:** 56 **MAP ID:** 22

NAME:	ALONG DAVIDSON ST	**REV:**	1/3/12
ADDRESS:	33 E MERRIMACK ST	**ID1:**	3-0025921
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 9/12/2006
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 43 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME: MOBIL SERVICE STATION
ADDRESS: 443 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002593
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: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED: 1/15/1990
DELETED: REMOVED:

LOCATION TYPE: GASSTATION,
SOURCE: UST;
SITE DESCRIPTION: GASOLINE PRESENT; GAS STATION; RELEASE TO SOIL; CONTAINED IN A LUST; GROUNDWATER RELEASE;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: STEFAN SOKOL

TS DATE: 9/16/1997
AUL RESTRICTION: NOT
LSP: COLIN COOL
RA STATUS: RAO STATEMENT RECEIVED
RAS 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

TS DATE: 9/10/1997
AUL RESTRICTION:
LSP:
RA STATUS: FEE RECEIVED-FMCRA USE ONLY
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

TS DATE: 11/7/1995
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 43 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME: MOBIL SERVICE STATION
ADDRESS: 443 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002593
ID2:
STATUS: RAO
PHONE:

TS DATE: 9/30/1994
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS:
RAS TYPE: TIER2EXT
RAO CLASS:

ACT DATE: 8/31/1989
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
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: 8/31/1989
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
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: 11/27/1989
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
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: 11/30/1989
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 11/30/1989
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
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: 9/30/1994
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
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: 11/30/1994
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 43 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME: MOBIL SERVICE STATION
ADDRESS: 443 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002593
ID2:
STATUS: RAO
PHONE:

ACT DATE: 11/7/1995
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
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: 8/27/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 9/10/1997
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: 9/16/1997
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: 1/8/1999
ACT USE LIMITATION:
ACT STATUS: FEE NOT REQUIRED-FEE CREDITED-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: 6/28/1999
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: 8/3/1999
ACT USE LIMITATION:
ACT STATUS: FLDRUN
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: 9/20/2001
ACT USE LIMITATION:
ACT STATUS: AMENDMENT RECEIVED
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 143 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME:	MOBIL @ 4TH & BRIDGE ST	**REV:**	1/3/12
ADDRESS:	443 BRIDGE ST	**ID1:**	3-0015387
	LOWELL MA 01853	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL, RESIDNTIAL,
SOURCE: OVERFLOW; SEPERATOR; UST;
SITE DESCRIPTION:

CHEMICALS

WASTE OIL 30 GAL
OIL 30 GAL

SITE ACTIONS

LSP INVOLVED: CRAIG BLAKE

LSP INVOLVED: KENNETH SMITH

ACT DATE: 8/13/1997
ACT USE LIMITATION:
ACT STATUS: FOLFLD
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: 8/13/1997
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: 8/13/1997
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: 8/19/1997
ACT USE LIMITATION:
ACT STATUS: FOLFLD
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 143 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME: MOBIL @ 4TH & BRIDGE ST
ADDRESS: 443 BRIDGE ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015387
ID2:
STATUS: RAO
PHONE:

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: 8/19/1997
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: 8/27/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
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: 9/8/1997
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 10/14/1997
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 10/20/1997
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: 10/20/1997
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: 9/20/2001
ACT USE LIMITATION:
ACT STATUS: AMENDMENT RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
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: 9/21/2001
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: ACTIVITY AND USE LIMITATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 144 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME: MOBIL SERVICE STATION
ADDRESS: 443 BRIDGE ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002593
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: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED: 1/15/1990
DELETED: REMOVED:

LOCATION TYPE: GASSTATION,
SOURCE: UST;
SITE DESCRIPTION: GASOLINE PRESENT; GAS STATION; GROUNDWATER RELEASE; RELEASE TO SOIL; CONTAINED IN A LUST;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: STEFAN SOKOL

TS DATE: 9/10/1997
AUL RESTRICTION:
LSP:
RA STATUS: FEE RECEIVED-FMCRA USE ONLY
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

TS DATE: 11/7/1995
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 9/30/1994
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS:
RAS TYPE: TIER2EXT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 144 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME:	MOBIL SERVICE STATION	**REV:**	1/3/12
ADDRESS:	443 BRIDGE ST	**ID1:**	3-0002593
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

TS DATE: 9/16/1997
AUL RESTRICTION: NOT
LSP: COLIN COOL
RA STATUS: RAO STATEMENT RECEIVED
RAS 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: 8/31/1989
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
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: 8/31/1989
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
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: 11/27/1989
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
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: 11/30/1989
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 11/30/1989
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
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: 9/30/1994
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
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: 11/30/1994
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 144 **DIST/DIR:** 0.30 NE **ELEVATION:** 93 **MAP ID:** 23

NAME:	MOBIL SERVICE STATION	**REV:**	1/3/12
ADDRESS:	443 BRIDGE ST	**ID1:**	3-0002593
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 11/7/1995
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
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: 8/27/1997
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 9/10/1997
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: 9/16/1997
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: 1/8/1999
ACT USE LIMITATION:
ACT STATUS: FEE NOT REQUIRED-FEE CREDITED-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: 6/28/1999
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: 8/3/1999
ACT USE LIMITATION:
ACT STATUS: FLDRUN
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: 9/20/2001
ACT USE LIMITATION:
ACT STATUS: AMENDMENT RECEIVED
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 38 **DIST/DIR:** 0.30 SW **ELEVATION:** 78 **MAP ID:** 24

NAME:	LOWELL SUN PROPERTY	**REV:**	1/3/12
ADDRESS:	30 MARKET ST	**ID1:**	3-0001060
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	DEPNFA
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

SITE INFORMATION

STATUS: DEPNFA - DEP No Further Action means that response actions were conducted and DEP determined that no further action was needed to the site.

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 4/8/1996
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: DEP-CSD
RAO CLASS:

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/8/1996
ACT USE LIMITATION:
ACT STATUS: DEP NO FURTHER ACTION MEANS THAT RESPONSE ACTIONS WERE CONDUCTED AND DEP DETERMINED THAT NO FURTHER ACTION WAS NEEDED TO THE SITE.
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 27 **DIST/DIR:** 0.33 SW **ELEVATION:** 88 **MAP ID:** 25

NAME:	GASOLINE STATION	**REV:**	1/3/12
ADDRESS:	300 MERRIMACK ST	**ID1:**	3-0028784
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: PIPE; UST;
SITE DESCRIPTION:

CHEMICALS

GASOLINE 2 GAL

SITE ACTIONS

ACT DATE: 10/8/2009
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 10/8/2009
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/9/2009
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 10/11/2009
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 10/13/2009
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 10/29/2009
ACT USE LIMITATION:
ACT STATUS: ISSUED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 27 **DIST/DIR:** 0.33 SW **ELEVATION:** 88 **MAP ID:** 25

NAME: GASOLINE STATION
ADDRESS: 300 MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028784
ID2:
STATUS: TIERII
PHONE:

ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: RELEASE NOTIFICATION SUBMITTED THROUGH EDEP
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/16/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 1/18/2010
ACT USE LIMITATION:
ACT STATUS: RMRINI
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/17/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/17/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 27 **DIST/DIR:** 0.33 SW **ELEVATION:** 88 **MAP ID:** 25

NAME: GASOLINE STATION
ADDRESS: 300 MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028784
ID2:
STATUS: TIERII
PHONE:

ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/17/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/9/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/8/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/4/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/4/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 7/6/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/13/2010
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/16/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 120 **DIST/DIR:** 0.33 SW **ELEVATION:** 88 **MAP ID:** 25

NAME:	GASOLINE STATION	**REV:**	1/3/12
ADDRESS:	300 MERRIMACK ST	**ID1:**	3-0028784
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: PIPE; UST;
SITE DESCRIPTION:

CHEMICALS

GASOLINE 2 GAL

SITE ACTIONS

ACT DATE: 10/8/2009
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/8/2009
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 10/9/2009
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 10/11/2009
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 10/13/2009
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 10/29/2009
ACT USE LIMITATION:
ACT STATUS: ISSUED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 120 **DIST/DIR:** 0.33 SW **ELEVATION:** 88 **MAP ID:** 25

NAME: GASOLINE STATION
ADDRESS: 300 MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028784
ID2:
STATUS: TIERII
PHONE:

ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 12/14/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: RELEASE NOTIFICATION SUBMITTED THROUGH EDEP
RAO CLASS:

ACT DATE: 12/16/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 1/18/2010
ACT USE LIMITATION:
ACT STATUS: RMRINI
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/17/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/17/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 120 **DIST/DIR:** 0.33 SW **ELEVATION:** 88 **MAP ID:** 25

NAME: GASOLINE STATION
ADDRESS: 300 MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028784
ID2:
STATUS: TIERII
PHONE:

ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/17/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/9/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/8/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/4/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/4/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 7/6/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/13/2010
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/16/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 36 **DIST/DIR:** 0.33 SW **ELEVATION:** 92 **MAP ID:** 26

NAME: LOWELL POLICE DEPARTMENT
ADDRESS: 50 ARCAND DR
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018004
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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 500 PPMV

SITE ACTIONS

LSP INVOLVED: DAVID MACDONALD

LSP INVOLVED: JOSEPH HIGGINS

LSP INVOLVED: N/A

ACT DATE: 2/18/1999
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: 2/18/1999
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: 3/24/1999
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: 4/16/1999
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 36 **DIST/DIR:** 0.33 SW **ELEVATION:** 92 **MAP ID:** 26

NAME: LOWELL POLICE DEPARTMENT
ADDRESS: 50 ARCAND DR
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018004
ID2:
STATUS: RAO
PHONE:

ACT DATE: 4/16/1999
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: 2/12/2003
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: 7/20/2005
ACT USE LIMITATION:
ACT STATUS: NOEC
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: 9/9/2005
ACT USE LIMITATION:
ACT STATUS: ACOP
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: 11/17/2005
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: 12/6/2006
ACT USE LIMITATION:
ACT STATUS: AMENDMENT RECEIVED
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: 5/22/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 5/29/2007
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 36 **DIST/DIR:** 0.33 SW **ELEVATION:** 92 **MAP ID:** 26

NAME: LOWELL POLICE DEPARTMENT
ADDRESS: 50 ARCAND DR
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018004
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/29/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 8/15/2009
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
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: 8/25/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 8/25/2009
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: 10/14/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN 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: 12/9/2010
ACT USE LIMITATION:
ACT STATUS: FLDRUN
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: 12/9/2010
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: 12/22/2010
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 141 **DIST/DIR:** 0.33 SW **ELEVATION:** 92 **MAP ID:** 26

NAME:	LOWELL POLICE DEPARTMENT	**REV:**	1/3/12
ADDRESS:	50 ARCAND DR	**ID1:**	3-0018004
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 500 PPMV

SITE ACTIONS

LSP INVOLVED: DAVID MACDONALD

LSP INVOLVED: JOSEPH HIGGINS

LSP INVOLVED: N/A

ACT DATE: 2/18/1999
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: 2/18/1999
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: 3/24/1999
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: 4/16/1999
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 141 **DIST/DIR:** 0.33 SW **ELEVATION:** 92 **MAP ID:** 26

NAME: LOWELL POLICE DEPARTMENT
ADDRESS: 50 ARCAND DR
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018004
ID2:
STATUS: RAO
PHONE:

ACT DATE: 4/16/1999
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: 2/12/2003
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: 7/20/2005
ACT USE LIMITATION:
ACT STATUS: NOEC
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: 9/9/2005
ACT USE LIMITATION:
ACT STATUS: ACOP
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: 11/17/2005
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: 12/6/2006
ACT USE LIMITATION:
ACT STATUS: AMENDMENT RECEIVED
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: 5/22/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 5/29/2007
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 141 **DIST/DIR:** 0.33 SW **ELEVATION:** 92 **MAP ID:** 26

NAME: LOWELL POLICE DEPARTMENT
ADDRESS: 50 ARCAND DR
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018004
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/29/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 8/15/2009
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
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: 8/25/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 8/25/2009
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: 10/14/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN 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: 12/9/2010
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: 12/9/2010
ACT USE LIMITATION:
ACT STATUS: FLDRUN
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: 12/22/2010
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 45 **DIST/DIR:** 0.37 NE **ELEVATION:** 93 **MAP ID:** 27

NAME: NO LOCATION AID
ADDRESS: 550 BRIDGE ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0011238
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

#2 FUEL OIL 6.3 INCH
GASOLINE 7.5 INCH

SITE ACTIONS

LSP INVOLVED: MICHAEL BINGHAM

TS DATE: 7/7/1995
AUL RESTRICTION:
LSP:
RA STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
RAS TYPE: FEND
RAO CLASS:

TS DATE: 7/7/1995
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/7/1994
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: 7/7/1994
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 45 **DIST/DIR:** 0.37 NE **ELEVATION:** 93 **MAP ID:** 27

NAME: NO LOCATION AID
ADDRESS: 550 BRIDGE ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0011238
ID2:
STATUS: RAO
PHONE:

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

ACT DATE: 7/13/1994
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: 7/22/1994
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: 9/1/1994
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: 9/12/1994
ACT USE LIMITATION:
ACT STATUS: WRITTEN 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: 10/14/1994
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: 12/2/1994
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: 1/3/1995
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: 1/3/1995
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 45 **DIST/DIR:** 0.37 NE **ELEVATION:** 93 **MAP ID:** 27

NAME: NO LOCATION AID
ADDRESS: 550 BRIDGE ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0011238
ID2:
STATUS: RAO
PHONE:

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

ACT DATE: 1/31/1995
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: 3/29/1995
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: 6/5/1995
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: 7/7/1995
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: 7/7/1995
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: 7/7/1995
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: 7/14/1995
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/18/1996
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 10 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME: BOOTT MILLS STEAM PLANT FMR
ADDRESS: 246 1 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004561
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: 10/1/1993 CONFIRMED: 10/1/1993
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL, INDUSTRIAL, TANK FARM, FORMER,
SOURCE: UST;
SITE DESCRIPTION: FORMER; COMMERCIAL SITE; TANK FARM SITE; INDUSTRIAL SITE; GROUNDWATER RELEASE; PETROLEUM PRESENT; VIRGIN OIL PRESENT; CONTAINED IN A LUST;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

LSP INVOLVED: JOHN THOMPSON

ACT DATE: 7/30/1993
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/30/1993
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 10 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME: BOOTT MILLS STEAM PLANT FMR
ADDRESS: 246 1 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004561
ID2:
STATUS: RAO
PHONE:

ACT DATE: 11/16/1993
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/20/1993
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/25/2005
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: 2/28/2005
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: 2/28/2005
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: 2/28/2005
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: 6/27/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/21/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 10 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME: BOOTT MILLS STEAM PLANT FMR
ADDRESS: 246 1 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004561
ID2:
STATUS: RAO
PHONE:

ACT DATE: 9/29/2006
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 12/28/2006
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: 1/10/2007
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: 3/19/2007
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: 3/19/2007
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: 12/23/2009
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/12/2010
ACT USE LIMITATION:
ACT STATUS: ACO
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/2/2010
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 25 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME:	FORMER COAL HOUSE BLDG #13 BOOTT MILLS	**REV:**	1/3/12
ADDRESS:	246 MARKET ST	**ID1:**	3-0025438
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

BIS(2-ETHYLHEXYL)PHTHALATE 630 MG/KG

SITE ACTIONS

LSP INVOLVED: DAVID AUSTIN

ACT DATE: 11/23/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 11/23/2005
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/7/2005
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/10/2006
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 11/21/2006
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/21/2006

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 25 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME:	FORMER COAL HOUSE BLDG #13 BOOTT MILLS	**REV:**	1/3/12
ADDRESS:	246 MARKET ST	**ID1:**	3-0025438
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 11/21/2006
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/21/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 11/21/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 11/19/2009
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 10/4/2011
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 115 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME:	BOOTT MILLS STEAM PLANT FMR	**REV:**	1/3/12
ADDRESS:	2461 MARKET ST	**ID1:**	3-0004561
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 10/1/1993 CONFIRMED: 10/1/1993
DELETED: REMOVED:

LOCATION TYPE: INDUSTRIAL, COMMERCIAL, TANK FARM, FORMER,
SOURCE: UST;
SITE DESCRIPTION: COMMERCIAL SITE; FORMER; VIRGIN OIL PRESENT; TANK FARM SITE; PETROLEUM PRESENT; CONTAINED IN A LUST; INDUSTRIAL SITE; GROUNDWATER RELEASE;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

LSP INVOLVED: JOHN THOMPSON

ACT DATE: 7/30/1993
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: 7/30/1993
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 115 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME: BOOTT MILLS STEAM PLANT FMR
ADDRESS: 2461 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004561
ID2:
STATUS: RAO
PHONE:

ACT DATE: 11/16/1993
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/20/1993
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/25/2005
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: 2/28/2005
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: 2/28/2005
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: 2/28/2005
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: 6/27/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/21/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 115 **DIST/DIR:** 0.37 SW **ELEVATION:** 92 **MAP ID:** 28

NAME: BOOTT MILLS STEAM PLANT FMR
ADDRESS: 2461 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004561
ID2:
STATUS: RAO
PHONE:

ACT DATE: 9/29/2006
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 12/28/2006
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: 1/10/2007
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: 3/19/2007
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: 3/19/2007
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: 12/23/2009
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/12/2010
ACT USE LIMITATION:
ACT STATUS: ACO
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/2/2010
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 15 **DIST/DIR:** 0.37 SW **ELEVATION:** 82 **MAP ID:** 29

NAME: COMPO INDUSTRIES
ADDRESS: 200 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000041
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: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: MANUFACT,
SOURCE: UST;
SITE DESCRIPTION: RELEASE TO SOIL; V.O.C. S PRESENT; GROUNDWATER RELEASE; CONTAINED IN A LUST; MANUFACTURING FACILITY;

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

CHEMICALS

PHTHALATE ESTER

SITE ACTIONS

TS DATE: 7/20/1998
AUL RESTRICTION:
LSP:
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 6/9/1999
AUL RESTRICTION:
LSP: JOHN BIERSCHENK
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 6/26/1998
AUL RESTRICTION:
LSP:
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 9/14/1995
AUL RESTRICTION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 15 **DIST/DIR:** 0.37 SW **ELEVATION:** 82 **MAP ID:** 29

NAME: COMPO INDUSTRIES
ADDRESS: 200 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000041
ID2:
STATUS: RAO
PHONE:

LSP: M MARGRET HANLEY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 8/17/1999
AUL RESTRICTION:
LSP:
RA STATUS: FEE RECEIVED-FMCRA USE ONLY
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

TS DATE: 8/24/1999
AUL RESTRICTION: NON
LSP: JOHN BIERSCHENK
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 1/7/1999
AUL RESTRICTION:
LSP: JOHN BIERSCHENK
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 9/14/1995
AUL RESTRICTION:
LSP: M MARGRET HANLEY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 9/14/1995
AUL RESTRICTION: NON
LSP: M MARGRET HANLEY
RA STATUS:
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: C - A TEMPORARY SOLUTION, WHICH ENSURES THE ELIMINATION OF ANY SUBSTANTIAL HAZARD, HAS BEEN ACHIEVED AT THE DISPOSAL SITE.

ACT DATE: 1/15/1987
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: 1/15/1987
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 15 **DIST/DIR:** 0.37 SW **ELEVATION:** 82 **MAP ID:** 29

NAME: COMPO INDUSTRIES
ADDRESS: 200 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000041
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: 12/30/1988
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 5/4/1989
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/8/1989
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: 9/8/1989
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/13/1994
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: 9/14/1995
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: 9/14/1995
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: 9/14/1995
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 117 **DIST/DIR:** 0.37 SW **ELEVATION:** 82 **MAP ID:** 29

NAME: COMPO INDUSTRIES
ADDRESS: 200 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000041
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LOCATION TYPE: MANUFACT,
SOURCE: UST;
SITE DESCRIPTION: GROUNDWATER RELEASE; RELEASE TO SOIL; V.O.C. S PRESENT; CONTAINED IN A LUST; MANUFACTURING FACILITY;

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

CHEMICALS

PHTHALATE ESTER

SITE ACTIONS

TS DATE: 8/24/1999
AUL RESTRICTION: NON
LSP: JOHN BIERSCHENK
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 9/14/1995
AUL RESTRICTION:
LSP: M MARGRET HANLEY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 1/7/1999
AUL RESTRICTION:
LSP: JOHN BIERSCHENK
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 8/17/1999
AUL RESTRICTION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 117 **DIST/DIR:** 0.37 SW **ELEVATION:** 82 **MAP ID:** 29

NAME:	COMPO INDUSTRIES	**REV:**	1/3/12
ADDRESS:	200 MARKET ST	**ID1:**	3-0000041
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

LSP:
RA STATUS: FEE RECEIVED-FMCRA USE ONLY
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

TS DATE: 7/20/1998
AUL RESTRICTION:
LSP:
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 9/14/1995
AUL RESTRICTION: NON
LSP: M MARGRET HANLEY
RA STATUS:
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: C - A TEMPORARY SOLUTION, WHICH ENSURES THE ELIMINATION OF ANY SUBSTANTIAL HAZARD, HAS BEEN ACHIEVED AT THE DISPOSAL SITE.

TS DATE: 9/14/1995
AUL RESTRICTION:
LSP: M MARGRET HANLEY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 6/9/1999
AUL RESTRICTION:
LSP: JOHN BIERSCHENK
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 6/26/1998
AUL RESTRICTION:
LSP:
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/15/1987
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: 1/15/1987
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 117 **DIST/DIR:** 0.37 SW **ELEVATION:** 82 **MAP ID:** 29

NAME: COMPO INDUSTRIES
ADDRESS: 200 MARKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000041
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: 12/30/1988
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 5/4/1989
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/8/1989
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: 9/8/1989
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/13/1994
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: 9/14/1995
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: 9/14/1995
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: 9/14/1995
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 31 **DIST/DIR:** 0.38 NW **ELEVATION:** 81 **MAP ID:** 30

NAME: INDUSTRIAL PROPERTY
ADDRESS: 661 SUFFOLK ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004196
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1993 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: FORMER, TEXT MILL,
SOURCE: UNKNOWN;
SITE DESCRIPTION: FORMER; UNKNOWN AS TO WHAT IS CONTAINED IN; V.O.C. S PRESENT; RELEASE TO SOIL; GROUNDWATER RELEASE;

OTHER CONTAMINATION: SURFACE & OTHER UNKNOWN
OTHER RELEASES: BTEX & PAH
OTHER PROBLEMS:
OTHER TYPE OF SITE: TEXTILE MILL

CHEMICALS

BTEX
VOCS

SITE ACTIONS

TS DATE: 3/8/1996
AUL RESTRICTION: NON
LSP: THOMAS LUBY
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 12/15/1993
AUL RESTRICTION: NON
LSP: THOMAS LUBY
RA STATUS:
RAS TYPE: LSP-RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/15/1993
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 31 **DIST/DIR:** 0.38 NW **ELEVATION:** 81 **MAP ID:** 30

NAME:	INDUSTRIAL PROPERTY	**REV:**	1/3/12
ADDRESS:	661 SUFFOLK ST	**ID1:**	3-0004196
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 12/15/1993
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: 3/8/1996
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 142 **DIST/DIR:** 0.38 SE **ELEVATION:** 82 **MAP ID:** 31

NAME: LOWELL SUN
ADDRESS: 24 HOWE ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0010673
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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 400 PPMV
UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL 400 PPM

SITE ACTIONS

LSP INVOLVED: JAMES ERRICO

ACT DATE: 3/14/1994
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: 3/14/1994
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: 3/15/1994
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: 3/15/1994
ACT USE LIMITATION:
ACT STATUS: FOLFLD
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: 3/29/1994
ACT USE LIMITATION:
ACT STATUS: ISSUED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 142 **DIST/DIR:** 0.38 SE **ELEVATION:** 82 **MAP ID:** 31

NAME: LOWELL SUN
ADDRESS: 24 HOWE ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0010673
ID2:
STATUS: RAO
PHONE:

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

ACT DATE: 5/13/1994
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: 5/13/1994
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: 6/21/1994
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: 6/21/1994
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: 9/15/1994
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: 3/3/1995
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: 3/3/1995
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: 3/6/1995
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 142 **DIST/DIR:** 0.38 SE **ELEVATION:** 82 **MAP ID:** 31

NAME:	LOWELL SUN	**REV:**	1/3/12
ADDRESS:	24 HOWE ST	**ID1:**	3-0010673
	LOWELL MA 01853	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 48 **DIST/DIR:** 0.40 SW **ELEVATION:** 87 **MAP ID:** 32

NAME: NO LOCATION AID
ADDRESS: 26 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026924
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: UNKNOWN;
SITE DESCRIPTION:

CHEMICALS

C11 THRU C22 AROMATIC HYDROCARBONS 10300 MG/KG
C19 THRU C36 ALIPHATIC HYDROCARBONS 33800 MG/KG
C9 THRU C18 ALIPHATIC HYDROCARBONS 1590 MG/KG

SITE ACTIONS

LSP INVOLVED: KIM HENRY

ACT DATE: 6/29/2007
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

ACT DATE: 6/29/2007
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: 7/18/2007
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: 4/14/2008
ACT USE LIMITATION:
ACT STATUS: ALSENT
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: 7/7/2008
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 48 **DIST/DIR:** 0.40 SW **ELEVATION:** 87 **MAP ID:** 32

NAME: NO LOCATION AID
ADDRESS: 26 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026924
ID2:
STATUS: RAO
PHONE:

ACT DATE: 7/7/2008
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 7/7/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 7/16/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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: 7/16/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
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: 9/28/2011
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 10/6/2011
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
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: 10/18/2011
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: 12/5/2011
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 93 **DIST/DIR:** 0.40 SE **ELEVATION:** 69 **MAP ID:** 33

NAME: PARKING LOT
ADDRESS: 30 HOWE ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021465
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

BENZO[A]ANTHRACENE 17 MG/KG
BENZO[A]PYRENE 19 MG/KG
BENZO[J,K]FLUORENE 32 MG/KG

SITE ACTIONS

LSP INVOLVED: NEAL CAREY

LSP INVOLVED: CHRISTIAN FAHY

LSP INVOLVED: OLAF WESTPHALEN

ACT DATE: 2/6/2002
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: 2/6/2002
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: 3/12/2002
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: 6/6/2002
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: 9/17/2002

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 93 **DIST/DIR:** 0.40 SE **ELEVATION:** 69 **MAP ID:** 33

NAME: PARKING LOT
ADDRESS: 30 HOWE ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021465
ID2:
STATUS: RAO
PHONE:

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: 9/17/2002
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: 9/17/2002
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: 9/17/2002
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: 3/16/2005
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: 6/29/2005
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: 10/11/2005
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: 10/11/2005
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: 12/28/2005

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 93 **DIST/DIR:** 0.40 SE **ELEVATION:** 69 **MAP ID:** 33

NAME: PARKING LOT
ADDRESS: 30 HOWE ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021465
ID2:
STATUS: RAO
PHONE:

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: 1/31/2006
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/1/2006
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/1/2006
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/1/2006
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/11/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/3/2007
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: 6/10/2008
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 131 **DIST/DIR:** 0.41 NW **ELEVATION:** 88 **MAP ID:** 34

NAME:	WANNALANCIT OFFICE & TECHNOLOGY CENTER	**REV:**	1/3/12
ADDRESS:	660 SUFFOLK ST	**ID1:**	3-0014272
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

FUEL OIL #2 500 PPMV

SITE ACTIONS

LSP INVOLVED: N/A

ACT DATE: 9/25/1996
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: 9/25/1996
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: 10/8/1996
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: 10/9/1996
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: 11/26/1997
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 131 **DIST/DIR:** 0.41 NW **ELEVATION:** 88 **MAP ID:** 34

NAME:	WANNALANCIT OFFICE & TECHNOLOGY CENTER	**REV:**	1/3/12
ADDRESS:	660 SUFFOLK ST	**ID1:**	3-0014272
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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

ACT DATE: 12/2/1997
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 70 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME: ST JOHNS PROPERTY
ADDRESS: EAST MERRIMAC & NESMITH STS
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002928
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: APARTMENT, FORMER,
SOURCE: UST;
SITE DESCRIPTION: FORMER; RELEASE TO SOIL; GROUNDWATER RELEASE; PETROLEUM PRESENT;

OTHER CONTAMINATION: POTENTIAL L.U.S.T.S
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE: MULTI FAMILY RESIDENTIAL UNITS

CHEMICALS

PETROLEUM

SITE ACTIONS

TS DATE: 7/30/1996
AUL RESTRICTION: NON
LSP: WILLIAM NORMAN
RA STATUS:
RAS TYPE: LSP-RAOEQ
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

TS DATE: 5/19/1997
AUL RESTRICTION: NON
LSP: WILLIAM NORMAN
RA STATUS: REVISED
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: NC

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 70 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME: ST JOHNS PROPERTY
ADDRESS: EAST MERRIMAC & NESMITH STS
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002928
ID2:
STATUS: RAO
PHONE:

ACT DATE: 7/30/1996
ACT USE LIMITATION:
ACT STATUS: RAOEQ
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: NC

ACT DATE: 1/23/1997
ACT USE LIMITATION:
ACT STATUS: FLDRUN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: NC

ACT DATE: 5/19/1997
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: NC

ACT DATE: 5/23/1997
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 127 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME:	SAINTS MEMORIAL MEDICAL CENTER	**REV:**	1/3/12
ADDRESS:	HOSPITAL DR	**ID1:**	3-0013635
	LOWELL MA 01853	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

TPH
#6 FUEL OIL

SITE ACTIONS

LSP INVOLVED: WILLIAM SIMMONS

ACT DATE: 4/5/1996
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 4/5/1996
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: C1

ACT DATE: 4/16/1996
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: C1

ACT DATE: 5/8/1996
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 5/8/1996
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 127 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME: SAINTS MEMORIAL MEDICAL CENTER
ADDRESS: HOSPITAL DR
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013635
ID2:
STATUS: RAO
PHONE:

ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: C1

ACT DATE: 6/4/1996
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: C1

ACT DATE: 6/4/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 6/6/1996
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 4/10/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: C1

ACT DATE: 4/10/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: C1

ACT DATE: 4/10/1997
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: C1

ACT DATE: 4/10/1997
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: C1

ACT DATE: 4/11/1997
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 127 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME:	SAINTS MEMORIAL MEDICAL CENTER	**REV:**	1/3/12
ADDRESS:	HOSPITAL DR	**ID1:**	3-0013635
	LOWELL MA 01853	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: C1

ACT DATE: 6/1/2009
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 6/3/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 8/31/2009
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: C1

ACT DATE: 10/7/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: C1

ACT DATE: 10/23/2009
ACT USE LIMITATION:
ACT STATUS: PERIODIC REVIEW OPINION EVALUATING TEMP SOLUTION
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 128 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME: ST JOHNS PROPERTY
ADDRESS: E MERRIMAC ST NESMITH ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002928
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: APARTMENT, FORMER,
SOURCE: UST;
SITE DESCRIPTION: GROUNDWATER RELEASE; FORMER; PETROLEUM PRESENT; RELEASE TO SOIL;

OTHER CONTAMINATION: POTENTIAL L.U.S.T.S
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE: MULTI FAMILY RESIDENTIAL UNITS

CHEMICALS

PETROLEUM

SITE ACTIONS

TS DATE: 5/19/1997
AUL RESTRICTION: NON
LSP: WILLIAM NORMAN
RA STATUS: REVISED
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 7/30/1996
AUL RESTRICTION: NON
LSP: WILLIAM NORMAN
RA STATUS:
RAS TYPE: LSP-RAOEQ
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: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: NC

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 128 **DIST/DIR:** 0.42 SE **ELEVATION:** 83 **MAP ID:** 35

NAME: ST JOHNS PROPERTY
ADDRESS: E MERRIMAC ST NESMITH ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002928
ID2:
STATUS: RAO
PHONE:

ACT DATE: 7/30/1996
ACT USE LIMITATION:
ACT STATUS: RAOEQ
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS: NC

ACT DATE: 1/23/1997
ACT USE LIMITATION:
ACT STATUS: FLDRUN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS: NC

ACT DATE: 5/19/1997
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: NC

ACT DATE: 5/23/1997
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 119 **DIST/DIR:** 0.42 NW **ELEVATION:** 80 **MAP ID:** 36

NAME:	CORNER OF WEST ST	**REV:**	1/3/12
ADDRESS:	163 W 6TH ST	**ID1:**	3-0017256
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

FUEL OIL #2 2500 PPMV
#2 FUEL OIL 2500 PPMV

SITE ACTIONS

LSP INVOLVED: JONATHAN HIGGINS

LSP INVOLVED: TIMOTHY TOOMEY

ACT DATE: 9/4/1998
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: 9/4/1998
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: 10/9/1998
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: 10/29/1998
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: 10/29/1998

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 119 **DIST/DIR:** 0.42 NW **ELEVATION:** 80 **MAP ID:** 36

NAME:	CORNER OF WEST ST	**REV:**	1/3/12
ADDRESS:	163 W 6TH ST	**ID1:**	3-0017256
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: 10/29/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 32 **DIST/DIR:** 0.43 SE **ELEVATION:** 104 **MAP ID:** 37

NAME: INTERSEC OF E MERRIMAC AND HIGH ST
ADDRESS: 219 E MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018128
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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 280 PPMV
GASOLINE 198 PPM

SITE ACTIONS

LSP INVOLVED: WILLIAM SIMMONS

ACT DATE: 3/26/1999
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 3/26/1999
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: C2

ACT DATE: 4/9/1999
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 32 **DIST/DIR:** 0.43 SE **ELEVATION:** 104 **MAP ID:** 37

NAME: INTERSEC OF E MERRIMAC AND HIGH ST
ADDRESS: 219 E MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018128
ID2:
STATUS: RAO
PHONE:

ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 8/14/2000
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 12/20/2007
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: C2

ACT DATE: 2/29/2008
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 3/31/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 32 **DIST/DIR:** 0.43 SE **ELEVATION:** 104 **MAP ID:** 37

NAME: INTERSEC OF E MERRIMAC AND HIGH ST
ADDRESS: 219 E MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018128
ID2:
STATUS: RAO
PHONE:

ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 3/31/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 4/15/2008
ACT USE LIMITATION:
ACT STATUS: ACOP
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: C2

ACT DATE: 10/30/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: C2

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: C2

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: C2

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 123 **DIST/DIR:** 0.43 SE **ELEVATION:** 104 **MAP ID:** 37

NAME: INTERSEC OF E MERRIMAC AND HIGH ST
ADDRESS: 219 E MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018128
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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 280 PPMV
GASOLINE 198 PPM

SITE ACTIONS

LSP INVOLVED: WILLIAM SIMMONS

ACT DATE: 3/26/1999
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 3/26/1999
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: C2

ACT DATE: 4/9/1999
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 123 **DIST/DIR:** 0.43 SE **ELEVATION:** 104 **MAP ID:** 37

NAME: INTERSEC OF E MERRIMAC AND HIGH ST
ADDRESS: 219 E MERRIMACK ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018128
ID2:
STATUS: RAO
PHONE:

ACT TYPE: PHASE 2
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 8/3/2000
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 8/14/2000
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 12/20/2007
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: C2

ACT DATE: 2/29/2008
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: C2

ACT DATE: 3/31/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 123 **DIST/DIR:** 0.43 SE **ELEVATION:** 104 **MAP ID:** 37

NAME:	INTERSEC OF E MERRIMAC AND HIGH ST	**REV:**	1/3/12
ADDRESS:	219 E MERRIMACK ST	**ID1:**	3-0018128
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 3/31/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS: C2

ACT DATE: 4/15/2008
ACT USE LIMITATION:
ACT STATUS: ACOP
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: C2

ACT DATE: 10/30/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: C2

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: C2

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: C2

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 99 **DIST/DIR:** 0.43 NW **ELEVATION:** 91 **MAP ID:** 38

NAME:	UNIV OF LOWELL	**REV:**	1/3/12
ADDRESS:	600 SUFFOLK ST	**ID1:**	3-0019314
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

OIL 40 GAL
OIL

SITE ACTIONS

LSP INVOLVED: JAMES OKUN

LSP INVOLVED: ANTHONY DELTUFO

ACT DATE: 2/24/2000
ACT USE LIMITATION:
ACT STATUS: FLDISS
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: 2/24/2000
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: 2/24/2000
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: 2/24/2000
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: 4/4/2000

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 99 **DIST/DIR:** 0.43 NW **ELEVATION:** 91 **MAP ID:** 38

NAME:	UNIV OF LOWELL	**REV:**	1/3/12
ADDRESS:	600 SUFFOLK ST	**ID1:**	3-0019314
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: 4/24/2000
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: 4/24/2000
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: 6/20/2001
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 10/31/2001
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: 10/31/2001
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 66 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: PROPERTY
ADDRESS: 128 WARREN ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003213
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 7/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: FORMER, RESIDNTIAL, COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION: FORMER; COMMERCIAL SITE; RELEASE TO SOIL; GROUNDWATER RELEASE; CONTAINED IN A LUST; PETROLEUM PRESENT; RESIDENTIAL SITE;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

TS DATE: 8/9/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 8/8/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 5/6/1996

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 66 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: PROPERTY
ADDRESS: 128 WARREN ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003213
ID2:
STATUS: RAO
PHONE:

AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 11/9/2000
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/6/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 10/29/1999
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/15/2000
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 10/12/1999
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 9/24/1999
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 66 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: PROPERTY
ADDRESS: 128 WARREN ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003213
ID2:
STATUS: RAO
PHONE:

ACT DATE: 7/15/1990
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: 5/6/1996
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: 5/6/1996
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: 8/8/1996
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: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/9/1996
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: 8/9/1996
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: 9/24/1999
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 114 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: BAGSHAW MILLS
ADDRESS: 128 WARREN ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0012428
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

#2 FUEL OIL
HYDRAULIC OIL

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

LSP INVOLVED: N/A

LSP INVOLVED: RICHARD WOZMAK

ACT DATE: 8/9/1996
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0003213
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 4/28/1995
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/28/1995
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 114 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: BAGSHAW MILLS
ADDRESS: 128 WARREN ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0012428
ID2:
STATUS: RAONR
PHONE:

ACT DATE: 5/17/1995
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/27/1995
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/27/1995
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 7/18/1995
ACT USE LIMITATION:
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/28/1995
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/28/1996
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/6/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 5/6/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 114 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: BAGSHAW MILLS
ADDRESS: 128 WARREN ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0012428
ID2:
STATUS: RAONR
PHONE:

ACT DATE: 5/6/1996
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/4/2001
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/14/2004
ACT USE LIMITATION:
ACT STATUS: COMPREHENSIVE AUDIT
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 12/14/2004
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 126 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: PROPERTY
ADDRESS: 128 WARREN ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003213
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: CONFIRMED:
DELETED: REMOVED:

LTBI: 7/15/1990 CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: RESIDNTIAL, COMMERCIAL, FORMER,
SOURCE: UST;
SITE DESCRIPTION: FORMER; COMMERCIAL SITE; RELEASE TO SOIL; RESIDENTIAL SITE; PETROLEUM PRESENT; CONTAINED IN A LUST; GROUNDWATER RELEASE;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

TS DATE: 10/29/1999
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/6/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 11/9/2000

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 126 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: PROPERTY
ADDRESS: 128 WARREN ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003213
ID2:
STATUS: RAO
PHONE:

AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 8/8/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 5/15/2000
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 9/24/1999
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 10/12/1999
AUL RESTRICTION:
LSP: RICHARD DOHERTY
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 8/9/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 5/6/1996
AUL RESTRICTION:
LSP: RICHARD WOZMAK
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 126 **DIST/DIR:** 0.44 SE **ELEVATION:** 64 **MAP ID:** 39

NAME: PROPERTY
ADDRESS: 128 WARREN ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003213
ID2:
STATUS: RAO
PHONE:

ACT DATE: 7/15/1990
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: 5/6/1996
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: 5/6/1996
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: 8/8/1996
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: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 8/9/1996
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: 8/9/1996
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: 9/24/1999
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

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

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

NFRAP

SEARCH ID: 1 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: PEARSON-PALM
ADDRESS: CHURCH/GEORGE/WARREN STREETS
LOWELL MA 01852
CONTACT:
SOURCE: EPA

REV: 9/30/11
ID1: MA0000877803
ID2: 0102752
STATUS: NFRAP-N
PHONE:

DESCRIPTION:

ACTION/QUALITY AGENCY/RPS START/RAA END
ARCHIVE SITE EPA In-House 7/1/1996

REMOVAL ASSESSMENT EPA Fund-Financed /1-94-4/21 9/30/1994
Primary

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 17 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: CONSTRUCTION SITE
ADDRESS: WARREN & CHURCH STS
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000356
ID2:
STATUS: DPSTRM
PHONE:

SITE INFORMATION

STATUS: DPSTRM - (Downgradient Property Status Terminated): A site where Downgradient Property Status has been terminated.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LOCATION TYPE: OPENSPACE,
SOURCE: UNCONTAIN; UST;
SITE DESCRIPTION: CYANIDE PRESENT; UNDEVELOPED SITE; V.O.C. S PRESENT; ALTOGETHER UNCONTAINED; RELEASE TO SOIL; GROUNDWATER RELEASE; CONTAINED IN A LUST;

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

CHEMICALS

VOCS

SITE ACTIONS

TS DATE: 6/15/1995
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 5/7/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 12/4/1997
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 5/7/1999
AUL RESTRICTION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 17 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: CONSTRUCTION SITE
ADDRESS: WARREN & CHURCH STS
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000356
ID2:
STATUS: DPSTRM
PHONE:

LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 5/4/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 4/2/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 11/27/1998
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 6/16/1995
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 12/23/1999
AUL RESTRICTION: NON
LSP: SANDRA HEBERT
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: PARTIAL RAO FOR THIS RTN
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 6/16/1995
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 10/25/1999

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 17 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: CONSTRUCTION SITE
ADDRESS: WARREN & CHURCH STS
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000356
ID2:
STATUS: DPSTRM
PHONE:

AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 1/12/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 12/13/1999
AUL RESTRICTION:
LSP:
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 1/12/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 1/12/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEIV
RAO CLASS:

TS DATE: 3/22/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

TS DATE: 5/19/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 118 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: CONSTRUCTION SITE
ADDRESS: CHURCH ST WARREN ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000356
ID2:
STATUS: DPSTRM
PHONE:

SITE INFORMATION

STATUS: DPSTRM - (Downgradient Property Status Terminated): A site where Downgradient Property Status has been terminated.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LOCATION TYPE: OPENSPACE,
SOURCE: UNCONTAIN; UST;
SITE DESCRIPTION: CYANIDE PRESENT; GROUNDWATER RELEASE; RELEASE TO SOIL; UNDEVELOPED SITE; ALTOGETHER UNCONTAINED; V.O.C. S PRESENT; CONTAINED IN A LUST;

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

CHEMICALS

VOCS

SITE ACTIONS

TS DATE: 6/16/1995
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 12/4/1997
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 5/7/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 5/4/1999
AUL RESTRICTION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 118 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: CONSTRUCTION SITE
ADDRESS: CHURCH ST WARREN ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000356
ID2:
STATUS: DPSTRM
PHONE:

LSP: SANDRA HEBERT
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 11/27/1998
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 6/16/1995
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 5/7/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 6/15/1995
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 12/23/1999
AUL RESTRICTION: NON
LSP: SANDRA HEBERT
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: PARTIAL RAO FOR THIS RTN
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

TS DATE: 4/2/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 1/12/2000

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 118 **DIST/DIR:** 0.45 SE **ELEVATION:** 85 **MAP ID:** 40

NAME: CONSTRUCTION SITE
ADDRESS: CHURCH ST WARREN ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000356
ID2:
STATUS: DPSTRM
PHONE:

AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 12/13/1999
AUL RESTRICTION:
LSP:
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 10/25/1999
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 1/12/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

TS DATE: 1/12/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
RAS TYPE: PHASEIV
RAO CLASS:

TS DATE: 3/22/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

TS DATE: 5/19/2000
AUL RESTRICTION:
LSP: SANDRA HEBERT
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 21 **DIST/DIR:** 0.47 SE **ELEVATION:** 83 **MAP ID:** 41

NAME: DICKS SERVICE STATION
ADDRESS: 180 CHURCH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017036
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.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C5 THRU C8 ALIPHATIC HYDROCARBONS 1450 PPM
C9 THRU C10 AROMATIC HYDROCARBONS 5740 PPB

SITE ACTIONS

LSP INVOLVED: N/A

ACT DATE: 7/14/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 7/14/1998
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/28/1998
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 7/20/1999
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/20/1999
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 21 **DIST/DIR:** 0.47 SE **ELEVATION:** 83 **MAP ID:** 41

NAME: DICKS SERVICE STATION
ADDRESS: 180 CHURCH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017036
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 7/20/1999
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/7/1999
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/22/2009
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 5/22/2009
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 12/17/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 12/17/2009
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/17/2009
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/21/2009
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 21 **DIST/DIR:** 0.47 SE **ELEVATION:** 83 **MAP ID:** 41

NAME: DICKS SERVICE STATION
ADDRESS: 180 CHURCH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017036
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 12/21/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 12/21/2009
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/23/2009
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 3/31/2010
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 8/17/2010
ACT USE LIMITATION:
ACT STATUS: ACOP
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 9/22/2010
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/22/2010
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/22/2010
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 97 **DIST/DIR:** 0.47 NW **ELEVATION:** 75 **MAP ID:** 42

NAME: U OF LOWELL PROPOSED MILL
ADDRESS: AIKEN & PERKINS AVE
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000535
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LOCATION TYPE: INDUSTRIAL, MANUFACT, FORMER,
SOURCE: UST; UNCONTAIN; TRANSFORM;
SITE DESCRIPTION: FORMER; CHLORINATED SOLVENTS PRESENT; CONTAINED IN A TRANSFORMER; RELEASE TO SOIL; V.O.C. S PRESENT; ALTOGETHER UNCONTAINED; SURFACE WATER RELEASE THREAT; GROUNDWATER RELEASE; METALS PRESENT; CONTAINED IN A LUST; INDUSTRIAL SITE; PETROLEUM PRESENT; PCBS PRESENT MANUFACTURING FACILITY;

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

CHEMICALS

PCBS

SITE ACTIONS

LSP INVOLVED: JAMES OKUN

TS DATE: 6/23/1997
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS:
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 7/16/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/15/1998

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 97 **DIST/DIR:** 0.47 NW **ELEVATION:** 75 **MAP ID:** 42

NAME: U OF LOWELL PROPOSED MILL
ADDRESS: AIKEN & PERKINS AVE
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000535
ID2:
STATUS: RAO
PHONE:

AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 7/21/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 6/15/2000
AUL RESTRICTION:
LSP: JAMES OKUN
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 11/17/1998
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 10/8/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 10/8/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: PARTIAL RAO FOR THIS RTN
RAO CLASS:

TS DATE: 2/4/2000
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 97 **DIST/DIR:** 0.47 NW **ELEVATION:** 75 **MAP ID:** 42

NAME: U OF LOWELL PROPOSED MILL
ADDRESS: AIKEN & PERKINS AVE
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000535
ID2:
STATUS: RAO
PHONE:

TS DATE: 12/10/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 2/27/2001
AUL RESTRICTION:
LSP: JAMES OKUN
RA STATUS: WORK STARTED
RAS TYPE: UTILITY-RELATED ABATEMENT MEASURE
RAO CLASS:

TS DATE: 3/30/1999
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/14/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/15/1987
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
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: 4/27/1992
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
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: 8/21/1992
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
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: 9/1/1992
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 129 **DIST/DIR:** 0.47 NW **ELEVATION:** 75 **MAP ID:** 42

NAME: U OF LOWELL PROPOSED MILL
ADDRESS: AIKEN AVE & PERKINS ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000535
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: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: MANUFACT, FORMER, INDUSTRIAL,
SOURCE: TRANSFORM; UNCONTAIN; UST;
SITE DESCRIPTION: FORMER; GROUNDWATER RELEASE; CHLORINATED SOLVENTS PRESENT; RELEASE TO SOIL; SURFACE WATER RELEASE THREAT; CONTAINED IN A TRANSFORMER; PETROLEUM PRESENT; PCBS PRESENT ALTOGETHER UNCONTAINED; V.O.C. S PRESENT; METALS PRESENT; MANUFACTURING FACILITY; INDUSTRIAL SITE; CONTAINED IN A LUST;

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

CHEMICALS

PCBS

SITE ACTIONS

LSP INVOLVED: JAMES OKUN

TS DATE: 10/8/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: PARTIAL RAO FOR THIS RTN
RAO CLASS:

TS DATE: 3/30/1999
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 7/16/1999

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 129 **DIST/DIR:** 0.47 NW **ELEVATION:** 75 **MAP ID:** 42

NAME: U OF LOWELL PROPOSED MILL
ADDRESS: AIKEN AVE & PERKINS ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000535
ID2:
STATUS: RAO
PHONE:

AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/15/1998
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 7/21/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 6/15/2000
AUL RESTRICTION:
LSP: JAMES OKUN
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 11/17/1998
AUL RESTRICTION:
LSP: BRUCE HOSKINS
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 6/23/1997
AUL RESTRICTION:
LSP: PAUL HUGHES
RA STATUS:
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 10/8/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 129 **DIST/DIR:** 0.47 NW **ELEVATION:** 75 **MAP ID:** 42

NAME: U OF LOWELL PROPOSED MILL
ADDRESS: AIKEN AVE & PERKINS ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000535
ID2:
STATUS: RAO
PHONE:

TS DATE: 2/4/2000
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 12/10/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 2/27/2001
AUL RESTRICTION:
LSP: JAMES OKUN
RA STATUS: WORK STARTED
RAS TYPE: UTILITY-RELATED ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/14/1999
AUL RESTRICTION:
LSP: JOHN KUBICZKI
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/15/1987
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
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: 4/27/1992
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
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: 8/21/1992
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
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: 9/1/1992
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 30 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 43

NAME: HOLY TRINITY COMMUNITY CTR
ADDRESS: BROADWAY & DUMMER ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000355
ID2:
STATUS: DPS
PHONE:

SITE INFORMATION

STATUS: DPS - (Downgradient Property Status): A site where DPS Submittal to DEP has stated that contamination on the property is coming from an Upgradient property.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LOCATION TYPE: FORMER, GASSTATION,
SOURCE: UST;
SITE DESCRIPTION: GAS STATION; FORMER; RELEASE TO SOIL; GROUNDWATER RELEASE; CONTAINED IN A LUST; PETROLEUM PRESENT;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

ACT DATE: 1/31/1986
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/31/1986
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/28/1987
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/29/2007
ACT USE LIMITATION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 30 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 43

NAME: HOLY TRINITY COMMUNITY CTR
ADDRESS: BROADWAY & DUMMER ST
LOWELL MA 01850

CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000355
ID2:
STATUS: DPS
PHONE:

ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 122 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 43

NAME: HOLY TRINITY COMMUNITY CTR
ADDRESS: BROADWAY DUMMER ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000355
ID2:
STATUS: DPS
PHONE:

SITE INFORMATION

STATUS: DPS - (Downgradient Property Status): A site where DPS Submittal to DEP has stated that contamination on the property is coming from an Upgradient property.

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: GASSTATION, FORMER,
SOURCE: UST;
SITE DESCRIPTION: GROUNDWATER RELEASE; GAS STATION; FORMER; PETROLEUM PRESENT; RELEASE TO SOIL; CONTAINED IN A LUST;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

ACT DATE: 1/31/1986
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/31/1986
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/28/1987
ACT USE LIMITATION:
ACT STATUS: RFI
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/29/2007
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 122 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 43

NAME: HOLY TRINITY COMMUNITY CTR
ADDRESS: BROADWAY DUMMER ST
LOWELL MA 01850

CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000355
ID2:
STATUS: DPS
PHONE:

ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 46 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME: NO LOCATION AID
ADDRESS: 38 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0023698
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.

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

PETROLEUM 1300 PPMV

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

LSP INVOLVED: JOSEPH HIGGINS

LSP INVOLVED: CAROL BOIS

ACT DATE: 3/24/2004
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/24/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 3/24/2004
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/12/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 46 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME: NO LOCATION AID
ADDRESS: 38 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0023698
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 5/24/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/24/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/11/2005
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 46 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME: NO LOCATION AID
ADDRESS: 38 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0023698
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/21/2005
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 9/15/2010
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/14/2011
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 100 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME: VACANT LOT
ADDRESS: 38 GORHAM ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0023852
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE
PETROLEUM 1.2 INCH

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

LSP INVOLVED: JOSEPH HIGGINS

ACT DATE: 6/2/2005
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0023698
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 5/12/2004
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/12/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/14/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 100 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME: VACANT LOT
ADDRESS: 38 GORHAM ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0023852
ID2:
STATUS: RAONR
PHONE:

ACT DATE: 6/29/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/29/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 7/8/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 100 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME:	VACANT LOT	**REV:**	1/3/12
ADDRESS:	38 GORHAM ST	**ID1:**	3-0023852
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAONR
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 145 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	38 GORHAM ST	**ID1:**	3-0023698
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

PETROLEUM 1300 PPMV

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

LSP INVOLVED: JOSEPH HIGGINS

LSP INVOLVED: CAROL BOIS

ACT DATE: 3/24/2004
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/24/2004
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 3/24/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/12/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 145 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	38 GORHAM ST	**ID1:**	3-0023698
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 5/24/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/24/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/11/2005
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 145 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	38 GORHAM ST	**ID1:**	3-0023698
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/21/2005
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 9/15/2010
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/14/2011
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 130 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME: VACANT LOT
ADDRESS: 38 GORHAM ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0023852
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE
PETROLEUM 1.2 INCH

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

LSP INVOLVED: JOSEPH HIGGINS

ACT DATE: 6/2/2005
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0023698
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 5/12/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 5/12/2004
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/14/2004
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 130 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME:	VACANT LOT	**REV:**	1/3/12
ADDRESS:	38 GORHAM ST	**ID1:**	3-0023852
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAONR
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 6/29/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/29/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 7/8/2004
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/27/2005
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/1/2005
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 130 **DIST/DIR:** 0.48 SW **ELEVATION:** 92 **MAP ID:** 44

NAME:	VACANT LOT	**REV:**	1/3/12
ADDRESS:	38 GORHAM ST	**ID1:**	3-0023852
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAONR
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/2/2005
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/6/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 101 **DIST/DIR:** 0.48 SE **ELEVATION:** 88 **MAP ID:** 45

NAME:	ZAYRE STORE	**REV:**	1/3/12
ADDRESS:	125 CHURCH ST	**ID1:**	3-0002798
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED: 1/15/1990
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: PIPE; UST;
SITE DESCRIPTION: COMMERCIAL SITE; RELEASE TO SOIL; CONTAINED IN A LUST; CONTAINED IN HOSE OR PIPE; GROUNDWATER RELEASE THREAT; PETROLEUM PRESENT; VIRGIN OIL PRESENT;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

TS DATE: 9/17/1997
AUL RESTRICTION: NON
LSP: STEVEN YOUNGS
RA STATUS:
RAS TYPE: LSP-RAOEQ
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 9/17/1997
ACT USE LIMITATION:
ACT STATUS: RAOEQ
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 132 **DIST/DIR:** 0.48 SE **ELEVATION:** 88 **MAP ID:** 45

NAME:	ZAYRE STORE	**REV:**	1/3/12
ADDRESS:	125 CHURCH ST	**ID1:**	3-0002798
	LOWELL MA 01850	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED: 1/15/1990
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: PIPE; UST;
SITE DESCRIPTION: CONTAINED IN HOSE OR PIPE; COMMERCIAL SITE; RELEASE TO SOIL; VIRGIN OIL PRESENT; PETROLEUM PRESENT; GROUNDWATER RELEASE THREAT; CONTAINED IN A LUST;

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

CHEMICALS

PETROLEUM

SITE ACTIONS

TS DATE: 9/17/1997
AUL RESTRICTION: NON
LSP: STEVEN YOUNGS
RA STATUS:
RAS TYPE: LSP-RAOEQ
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 9/17/1997
ACT USE LIMITATION:
ACT STATUS: RAOEQ
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 125 **DIST/DIR:** 0.48 NW **ELEVATION:** 75 **MAP ID:** 46

NAME:	LOWELL HOUSING AUTH	**REV:**	1/3/12
ADDRESS:	572 LAKEVIEW AVE	**ID1:**	3-0016801
	LOWELL MA 01853	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

#2 FUEL OIL 155 PPMV
FUEL OIL #2 155 PPMV

SITE ACTIONS

LSP INVOLVED: N/A

ACT DATE: 5/15/1998
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: 5/15/1998
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: 6/17/1998
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: 9/22/1998
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: 9/22/1998
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 125 **DIST/DIR:** 0.48 NW **ELEVATION:** 75 **MAP ID:** 46

NAME:	LOWELL HOUSING AUTH	**REV:**	1/3/12
ADDRESS:	572 LAKEVIEW AVE	**ID1:**	3-0016801
	LOWELL MA 01853	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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

ACT DATE: 10/8/1998
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 14 **DIST/DIR:** 0.49 SE **ELEVATION:** 79 **MAP ID:** 47

NAME: COMP U TUNE FMR
ADDRESS: 205 CHURCH ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004664
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.

LTBI: 10/1/1993 CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: AUTOREPAIR, FORMER,
SOURCE: UST;
SITE DESCRIPTION: FORMER; WASTE OIL PRESENT; RELEASE TO SOIL; GROUNDWATER RELEASE THREAT; AUTOMOBILE REPAIR YARD; CONTAINED IN A LUST;

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

CHEMICALS

WASTE OIL

SITE ACTIONS

LSP INVOLVED: 7051

ACT DATE: 6/7/1993
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/7/1993
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 5/8/2006
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 14 **DIST/DIR:** 0.49 SE **ELEVATION:** 79 **MAP ID:** 47

NAME: COMP U TUNE FMR
ADDRESS: 205 CHURCH ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004664
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 5/8/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/4/2006
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 11/6/2006
ACT USE LIMITATION:
ACT STATUS: ACO
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 116 **DIST/DIR:** 0.49 SE **ELEVATION:** 79 **MAP ID:** 47

NAME: COMP U TUNE FMR
ADDRESS: 205 CHURCH ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004664
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.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 10/1/1993 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: AUTOREPAIR, FORMER,
SOURCE: UST;
SITE DESCRIPTION: FORMER; RELEASE TO SOIL; AUTOMOBILE REPAIR YARD; WASTE OIL PRESENT; GROUNDWATER RELEASE THREAT; CONTAINED IN A LUST;

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

CHEMICALS

WASTE OIL

SITE ACTIONS

LSP INVOLVED: 7051

ACT DATE: 6/7/1993
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/7/1993
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 5/8/2006
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 116 **DIST/DIR:** 0.49 SE **ELEVATION:** 79 **MAP ID:** 47

NAME: COMP U TUNE FMR
ADDRESS: 205 CHURCH ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004664
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 5/8/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/4/2006
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 11/6/2006
ACT USE LIMITATION:
ACT STATUS: ACO
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 65 **DIST/DIR:** 0.49 SW **ELEVATION:** 91 **MAP ID:** 48

NAME: PROPERTIES
ADDRESS: UNKNOWN
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025403
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

BENZO[A]PYRENE 4.9 MG/KG
SILVER 21.9 UG/L
BERYLLIUM 1 MG/KG
LEAD 30.2 UG/L
BENZO[A]ANTHRACENE 5.4 MG/KG
INDENO(1,2,3-CD)PYRENE 2.7 MG/KG
DIBENZO[A,H]ANTHRACENE .79 MG/KG
LEAD 309 MG/KG
THALLIUM 10.2 MG/KG
BENZO[B]FLUORANTHENE 6 MG/KG

SITE ACTIONS

LSP INVOLVED: MARK CASEY

ACT DATE: 11/15/2005
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

ACT DATE: 11/15/2005
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: 12/6/2005
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: 3/17/2006
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 65 **DIST/DIR:** 0.49 SW **ELEVATION:** 91 **MAP ID:** 48

NAME: PROPERTIES
ADDRESS: UNKNOWN
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025403
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: 3/20/2006
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 7/21/2006
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 10/10/2006
ACT USE LIMITATION:
ACT STATUS: ALSENT
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: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 11/30/2006
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 65 **DIST/DIR:** 0.49 SW **ELEVATION:** 91 **MAP ID:** 48

NAME: PROPERTIES
ADDRESS: UNKNOWN
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025403
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: 3/19/2007
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 12/28/2007
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
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: 9/16/2008
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: 9/17/2008
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
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: 9/18/2008
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 4/30/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN 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: 4/30/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
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: 9/23/2011
ACT USE LIMITATION:
ACT STATUS: AUDIT INSPECTION
ACT TYPE: ACTIVITY AND USE LIMITATION

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 124 **DIST/DIR:** 0.49 SW **ELEVATION:** 91 **MAP ID:** 48

NAME: JAM PARKING GARAGE
ADDRESS: 115 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026258
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

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

CHEMICALS

PETROLEUM NOS 133 PPMV
FUEL OIL 133 PPMV

SITE ACTIONS

LSP INVOLVED: MARK CASEY

ACT DATE: 11/30/2006
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0025403
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 9/27/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 9/27/2006
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 11/6/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

LUST

SEARCH ID: 124 **DIST/DIR:** 0.49 SW **ELEVATION:** 91 **MAP ID:** 48

NAME:	JAM PARKING GARAGE	**REV:**	1/3/12
ADDRESS:	115 MIDDLESEX ST	**ID1:**	3-0026258
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAONR
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

RAO CLASS:

ACT DATE: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/22/2006
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/30/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 11/30/2006
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 11/30/2006
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/30/2006
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/28/2007
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 9 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME:	APPLETON MILLS COMPLEX	**REV:**	1/3/12
ADDRESS:	307 JACKSON ST	**ID1:**	3-0026095
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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: RESIDNTIAL,
SOURCE: UNKNOWN;
SITE DESCRIPTION:

CHEMICALS

BENZO[B]FLUORANTHENE 174 PPM
2-METHYLNAPHTHALENE 31.2 PPM
INDENO(1,2,3-CD)PYRENE 161 PPM
NAPHTHALENE 966 PPM
NICKEL 34.7 PPM
PHENANTHRENE 309 PPM
TETRACHLOROETHYLENE 6.26 PPM
TRICHLOROETHENE .419 PPM
BENZO[A]ANTHRACENE 187 PPM
CADMIUM 8.38 PPM
C19 THRU C36 ALIPHATIC HYDROCARBONS 3200 PPM
C9 THRU C18 ALIPHATIC HYDROCARBONS 1180 PPM
VINYL CHLORIDE .0046 PPM
ZINC 7640 PPM
CHRYSENE 157 PPM
BENZO[A]PYRENE 216 PPM
TETRACHLOROETHYLENE 1.11 PPM
AROCLOR 1254 4.88 PPM
C11 THRU C22 AROMATIC HYDROCARBONS 2700 PPM
ACENAPHTHENE 40.3 PPM
CHROMIUM 33.2 PPM
BENZO(K)FLUORANTHENE 167 PPM
DIBENZO[A,H]ANTHRACENE 37.6 PPM

SITE ACTIONS

LSP INVOLVED: 5323

ACT DATE: 7/25/2006
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

ACT DATE: 7/25/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 9 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: APPLETON MILLS COMPLEX
ADDRESS: 307 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026095
ID2:
STATUS: RAO
PHONE:

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: 8/28/2006
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: 6/7/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
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: 7/31/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 7/31/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 7/31/2007
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
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: 7/31/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 7/31/2009
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
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: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 9 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: APPLETON MILLS COMPLEX
ADDRESS: 307 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026095
ID2:
STATUS: RAO
PHONE:

ACT TYPE: TIER CLASSIFICATION
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: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
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: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
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: 9/8/2009
ACT USE LIMITATION:
ACT STATUS: EPETOP
ACT TYPE: TIER CLASSIFICATION
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: 9/11/2009
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 9/24/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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: 10/9/2009
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 10/20/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 62 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: NO LOCATION AID
ADDRESS: 307 JACKSON ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020636
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL, INDUSTRIAL,
SOURCE: DEMOLITION;
SITE DESCRIPTION:

CHEMICALS

ASBESTOS

SITE ACTIONS

LSP INVOLVED: ROBERT REIN

LSP INVOLVED: KEVIN SHEEHAN

ACT DATE: 4/27/2001
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: 4/27/2001
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: 7/2/2001
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: 7/23/2001
ACT USE LIMITATION:
ACT STATUS: SUBMITTAL RETRACTED
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 62 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: NO LOCATION AID
ADDRESS: 307 JACKSON ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020636
ID2:
STATUS: RAO
PHONE:

ACT DATE: 8/17/2001
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: 8/31/2001
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 8/31/2001
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION 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: 10/17/2001
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: 4/12/2002
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: 5/6/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 5/6/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 5/6/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 62 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: NO LOCATION AID
ADDRESS: 307 JACKSON ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020636
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/24/2002
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 8/20/2002
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 10/1/2002
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: 11/20/2002
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: 4/14/2003
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: 10/16/2003
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: 1/26/2006
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
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: 2/15/2006
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 63 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: NO LOCATION AID
ADDRESS: 307 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026424
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

LEAD .011 MG/L
C9 THRU C18 ALIPHATIC HYDROCARBONS 2.1 MG/L
ETHENE, 1,2-DICHLORO-, (Z) .13 MG/L
VINYL CHLORIDE .002 MG/L
TETRACHLOROETHYLENE 4.1 MG/KG
2-METHYLNAPHTHALENE 5.8 MG/KG
NAPHTHALENE 22 MG/KG
C11 THRU C22 AROMATIC HYDROCARBONS 2200 MG/KG

SITE ACTIONS

ACT DATE: 9/2/2009
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0026095
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 12/19/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 63 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: NO LOCATION AID
ADDRESS: 307 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026424
ID2:
STATUS: RAONR
PHONE:

ACT DATE: 7/31/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/31/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/9/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 11/23/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 1/2/2008
ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/2/2009
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 63 **DIST/DIR:** 0.51 SW **ELEVATION:** 83 **MAP ID:** 49

NAME: NO LOCATION AID
ADDRESS: 307 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026424
ID2:
STATUS: RAONR
PHONE:

ACT DATE: 9/8/2009
ACT USE LIMITATION:
ACT STATUS: EPETOP
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/11/2009
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 22 **DIST/DIR:** 0.51 SW **ELEVATION:** 81 **MAP ID:** 50

NAME: FMR FREUDENBERG NON-WOVENS
ADDRESS: 221 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025687
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

C19 THRU C36 ALIPHATIC HYDROCARBONS 14000 PPM
C9 THRU C18 ALIPHATIC HYDROCARBONS 24000 PPM
C11 THRU C22 AROMATIC HYDROCARBONS 10000 PPM

SITE ACTIONS

LSP INVOLVED: MARK CASEY

ACT DATE: 2/17/2006
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: 2/17/2006
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

ACT DATE: 3/17/2006
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: 5/12/2006
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 5/12/2006
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 22 **DIST/DIR:** 0.51 SW **ELEVATION:** 81 **MAP ID:** 50

NAME: FMR FREUDENBERG NON-WOVENS
ADDRESS: 221 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025687
ID2:
STATUS: RAO
PHONE:

ACT DATE: 10/23/2006
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 1/16/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
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: 2/26/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 2/26/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 2/26/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 12/18/2008
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 12/18/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 1/1/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 22 **DIST/DIR:** 0.51 SW **ELEVATION:** 81 **MAP ID:** 50

NAME: FMR FREUDENBERG NON-WOVENS
ADDRESS: 221 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025687
ID2:
STATUS: RAO
PHONE:

ACT DATE: 2/2/2009
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 3
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: 2/2/2009
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
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: 6/18/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 11/13/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 2/26/2010
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 4
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: 7/2/2010
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 7/2/2010
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: 7/9/2010
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 50 **DIST/DIR:** 0.51 SW **ELEVATION:** 81 **MAP ID:** 50

NAME: NO LOCATION AID
ADDRESS: 221 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013252
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: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

OTHER CONTAMINATION:
OTHER RELEASES: LEAD,TPH, CHRYSENE, NAPHTHALENE, ETC
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

BENZO[A]PYRENE 47 MG/KG
TPH 2800 MG/KG
PHENANTHRENE 100 MG/KG
NAPHTHALENE 8.5 MG/KG
LEAD 2320 MG/KG
INDENO(1,2,3-CD)PYRENE 26 MG/KG
BENZ[E]ACEPHENANTHRYLENE 39 MG/KG
BENZ[A]ANTHRACENE 45 MG/KG
DIBENZ[A,H]ANTHRACENE 20 MG/KG
CHRYSENE 20 MG/KG

SITE ACTIONS

LSP INVOLVED: STEPHEN RANSOM

TS DATE: 12/18/1996
AUL RESTRICTION:
LSP:
RA STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
RAS TYPE: FEND
RAO CLASS:

TS DATE: 12/18/1996
AUL RESTRICTION:
LSP: STEPHEN RANSOM
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/11/1995

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 50 **DIST/DIR:** 0.51 SW **ELEVATION:** 81 **MAP ID:** 50

NAME: NO LOCATION AID
ADDRESS: 221 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013252
ID2:
STATUS: RAO
PHONE:

ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/11/1995
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 1/9/1996
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/18/1996
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/18/1996
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/18/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/24/1998
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/24/1998
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 12/24/1998

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 50 **DIST/DIR:** 0.51 SW **ELEVATION:** 81 **MAP ID:** 50

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	221 JACKSON ST	**ID1:**	3-0013252
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 6/5/2000
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 6/5/2000
ACT USE LIMITATION:
ACT STATUS: PASSIVE O&M AND/OR MONITORING
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 7/23/2001
ACT USE LIMITATION:
ACT STATUS: PERIODIC REVIEW OPINION EVALUATING TEMP SOLUTION
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 1/25/2002
ACT USE LIMITATION:
ACT STATUS: PERIODIC REVIEW OPINION EVALUATING TEMP SOLUTION
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 5/31/2002
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 40 **DIST/DIR:** 0.53 SW **ELEVATION:** 94 **MAP ID:** 51

NAME: MACHERAS SERVICE MART
ADDRESS: 66 BROADWAY
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001620
ID2:
STATUS: REMOPS
PHONE:

SITE INFORMATION

STATUS: REMOPS - Remedy Operating Status

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 7/15/1988 CONFIRMED: 7/15/1988
DELETED: REMOVED:

LOCATION TYPE: GASSTATION,
SOURCE: TANKER;
SITE DESCRIPTION: GAS STATION; SURFACE WATER RELEASE; CONTAINED IN A TANKER; RELEASE TO SOIL; V.O.C. S PRESENT; GROUNDWATER RELEASE; PETROLEUM PRESENT;

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

CHEMICALS

VOCS

SITE ACTIONS

LSP INVOLVED: MARK GERMANO

LSP INVOLVED: MICHAEL PENNEY

LSP INVOLVED: RICHARD DOHERTY

TS DATE: 6/29/1998
AUL RESTRICTION:
LSP: MICHAEL PENNEY
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 6/29/1998
AUL RESTRICTION:
LSP: MICHAEL PENNEY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

ACT DATE: 7/15/1988
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 40 **DIST/DIR:** 0.53 SW **ELEVATION:** 94 **MAP ID:** 51

NAME: MACHERAS SERVICE MART
ADDRESS: 66 BROADWAY
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001620
ID2:
STATUS: REMOPS
PHONE:

ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/9/1999
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/5/2000
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 6/5/2000
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 7/26/2001
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 40 **DIST/DIR:** 0.53 SW **ELEVATION:** 94 **MAP ID:** 51

NAME: MACHERAS SERVICE MART
ADDRESS: 66 BROADWAY
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001620
ID2:
STATUS: REMOPS
PHONE:

ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 11/2/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 8/26/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 10/27/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/2/2004
ACT USE LIMITATION:
ACT STATUS: NON-A
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 9/9/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/9/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/15/2006
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 7/31/2006
ACT USE LIMITATION:
ACT STATUS: ACOP

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 41 **DIST/DIR:** 0.53 SW **ELEVATION:** 94 **MAP ID:** 51

NAME: MACHEROS SERVICE MART
ADDRESS: 66 BROADWAY
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015257
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 200 PPMV
GASOLINE 100 PPMV

SITE ACTIONS

LSP INVOLVED: RICHARD DOHERTY

LSP INVOLVED: MICHAEL WEBSTER

LSP INVOLVED: MARK GERMANO

LSP INVOLVED: MICHAEL PENNEY

TS DATE: 6/29/1998
AUL RESTRICTION:
LSP:
RA STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
RAS TYPE: FEND
RAO CLASS:

TS DATE: 6/29/1998
AUL RESTRICTION:
LSP: MICHAEL PENNEY
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 41 **DIST/DIR:** 0.53 SW **ELEVATION:** 94 **MAP ID:** 51

NAME: MACHEROS SERVICE MART
ADDRESS: 66 BROADWAY
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015257
ID2:
STATUS: RAONR
PHONE:

LINKED SITE ID: 3-0001620
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 3/3/1995
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 6/20/1997
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 7/14/1997
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 8/27/1997
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/27/1997
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 10/27/1997
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/23/1998
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 41 **DIST/DIR:** 0.53 SW **ELEVATION:** 94 **MAP ID:** 51

NAME: MACHEROS SERVICE MART
ADDRESS: 66 BROADWAY
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015257
ID2:
STATUS: RAONR
PHONE:

ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/29/1998
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/19/1998
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/16/1999
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 11/9/1999
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/6/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/27/2004
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 51 **DIST/DIR:** 0.54 SW **ELEVATION:** 80 **MAP ID:** 52

NAME: NO LOCATION AID
ADDRESS: 291 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026423
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

TRICHLOROETHYLENE 2.4 MG/KG

SITE ACTIONS

ACT DATE: 11/24/2006
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: 11/24/2006
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: 12/19/2006
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: 10/9/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 11/23/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: SPECIAL PROJECT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/2/2008
ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 51 **DIST/DIR:** 0.54 SW **ELEVATION:** 80 **MAP ID:** 52

NAME: NO LOCATION AID
ADDRESS: 291 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026423
ID2:
STATUS: RAO
PHONE:

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

ACT DATE: 6/26/2008
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: 6/27/2008
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/30/2008
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: 10/24/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/24/2008
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 4/23/2009
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: 7/23/2009
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: 7/27/2009
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 51 **DIST/DIR:** 0.54 SW **ELEVATION:** 80 **MAP ID:** 52

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	291 JACKSON ST	**ID1:**	3-0026423
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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

ACT DATE: 1/5/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 35 **DIST/DIR:** 0.55 SW **ELEVATION:** 98 **MAP ID:** 53

NAME: LOWELL HOUSING AUTHORITY
ADDRESS: ADAMS ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000573
ID2:
STATUS: PENNFA
PHONE:

SITE INFORMATION

STATUS: PENNFA - Pending No Further Action means a document was submitted to DEP asserting that a site assessment had determined that no further action was required. These submittals are considered pending until DEP audits them.

LTBI: CONFIRMED: 1/15/1987
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: RESIDNTIAL,
SOURCE: UST;
SITE DESCRIPTION: RELEASE TO SOIL; CONTAINED IN A LUST; RESIDENTIAL SITE; VIRGIN OIL PRESENT;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 12/17/1993
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: CON-NFA
RAO CLASS:

ACT DATE: 1/15/1987
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/17/1993
ACT USE LIMITATION:
ACT STATUS: PENDING NO FURTHER ACTION MEANS A DOCUMENT WAS SUBMITTED TO DEP ASSERTING THAT A SITE ASSESSMENT HAD DETERMINED THAT NO FURTHER ACTION WAS REQUIRED. THESE SUBMITTALS ARE CONSIDERED PENDING UNTIL DEP AUDITS THEM.
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 5/23/1996
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 35 **DIST/DIR:** 0.55 SW **ELEVATION:** 98 **MAP ID:** 53

NAME: LOWELL HOUSING AUTHORITY
ADDRESS: ADAMS ST
LOWELL MA 01850
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0000573
ID2:
STATUS: PENNFA
PHONE:

RAO CLASS:

ACT DATE: 5/23/1996
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 49 **DIST/DIR:** 0.58 SW **ELEVATION:** 99 **MAP ID:** 54

NAME: NO LOCATION AID
ADDRESS: 225 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028616
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.

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

CHEMICALS

#6 FUEL OIL 100 PPMV
#6 FUEL OIL 150 PPMV

SITE ACTIONS

ACT DATE: 7/14/2009
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 7/14/2009
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 7/22/2009
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF A MODIFIED PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 7/22/2009
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 7/24/2009
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 7/24/2009
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 49 **DIST/DIR:** 0.58 SW **ELEVATION:** 99 **MAP ID:** 54

NAME: NO LOCATION AID
ADDRESS: 225 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028616
ID2:
STATUS: TIERII
PHONE:

ACT STATUS: ORAL APPROVAL OF A MODIFIED PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 7/31/2009
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 7/31/2009
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF A MODIFIED PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/7/2009
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 9/14/2009
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 9/14/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: RELEASE NOTIFICATION SUBMITTED THROUGH EDEP
RAO CLASS:

ACT DATE: 1/18/2010
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 1/18/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/3/2010
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 49 **DIST/DIR:** 0.58 SW **ELEVATION:** 99 **MAP ID:** 54

NAME: NO LOCATION AID
ADDRESS: 225 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0028616
ID2:
STATUS: TIERII
PHONE:

ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/7/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/7/2010
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 7/14/2010
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/14/2010
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/14/2010
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 7/14/2010
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 7/21/2010
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/4/2011
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 18 **DIST/DIR:** 0.59 SE **ELEVATION:** 114 **MAP ID:** 55

NAME: CORNER OF HIGH AND ANDOVER ST
ADDRESS: 276 HIGH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0022121
ID2:
STATUS: REMOPS
PHONE:

SITE INFORMATION

STATUS: REMOPS - Remedy Operating Status

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C5 THRU C8 ALIPHATIC HYDROCARBONS 874 PPM
C9 THRU C10 AROMATIC HYDROCARBONS 372 PPM
C9 THRU C10 AROMATIC HYDROCARBONS 24200 PPB
2-METHYLNAPHTHALENE 18.2 PPM
PROPANE, 2-METHOXY-2-METHYL- .964 PPM
XYLENE 27140 PPB
C5 THRU C8 ALIPHATIC HYDROCARBONS 11200 PPB
NAPHTHALENE 17.5 PPM
C9 THRU C12 ALIPHATIC HYDROCARBONS 44600 PPB

SITE ACTIONS

LSP INVOLVED: ANTHONY ANDRONICO

ACT DATE: 9/18/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 9/18/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 9/26/2002
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/6/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 18 **DIST/DIR:** 0.59 SE **ELEVATION:** 114 **MAP ID:** 55

NAME: CORNER OF HIGH AND ANDOVER ST
ADDRESS: 276 HIGH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0022121
ID2:
STATUS: REMOPS
PHONE:

ACT DATE: 2/9/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 2/9/2004
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 2/9/2004
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/28/2004
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 10/4/2005
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 10/3/2006
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 10/3/2006
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 5/3/2007
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 18 **DIST/DIR:** 0.59 SE **ELEVATION:** 114 **MAP ID:** 55

NAME: CORNER OF HIGH AND ANDOVER ST
ADDRESS: 276 HIGH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0022121
ID2:
STATUS: REMOPS
PHONE:

ACT DATE: 1/30/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 1/30/2008
ACT USE LIMITATION:
ACT STATUS: RMRINI
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 5/2/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 5/2/2008
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 10/30/2008
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 10/30/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 2/12/2009
ACT USE LIMITATION:
ACT STATUS: WORK STARTED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 2/12/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 56 **DIST/DIR:** 0.65 SW **ELEVATION:** 102 **MAP ID:** 56

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	323 MIDDLESEX ST	**ID1:**	3-0020780
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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

BENZO[A]ANTHRACENE 3.5 UG/G
INDENO(1,2,3-CD)PYRENE 2.3 UG/G
BENZO[A]PYRENE 3 UG/G
BENZO[B]FLUORANTHENE 3.2 UG/G

SITE ACTIONS

LSP INVOLVED: KELLEY RACE

ACT DATE: 5/15/2001
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: 5/15/2001
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: 11/15/2001
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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 94 **DIST/DIR:** 0.65 SE **ELEVATION:** 99 **MAP ID:** 57

NAME:	PERRY STREET SUBSTA #3	**REV:**	1/3/12
ADDRESS:	53 PERRY ST	**ID1:**	3-0027669
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	TIERII
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

ARSENIC 24.8 MG/KG

SITE ACTIONS

LSP INVOLVED: BRIAN KLINGLER

ACT DATE: 5/2/2008
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 5/2/2008
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 5/2/2008
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/6/2008
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/6/2008
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 6/12/2008

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 94 **DIST/DIR:** 0.65 SE **ELEVATION:** 99 **MAP ID:** 57

NAME: PERRY STREET SUBSTA #3
ADDRESS: 53 PERRY ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0027669
ID2:
STATUS: TIERII
PHONE:

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

ACT DATE: 8/26/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 2/27/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 3/12/2009
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 4/30/2009
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 4/30/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 4/30/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 4/30/2009
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 5/5/2009

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 94 **DIST/DIR:** 0.65 SE **ELEVATION:** 99 **MAP ID:** 57

NAME: PERRY STREET SUBSTA #3
ADDRESS: 53 PERRY ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0027669
ID2:
STATUS: TIERII
PHONE:

ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/28/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 2/26/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 8/26/2010
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 2/25/2011
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/6/2011
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 5/6/2011
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 8/26/2011
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 59 **DIST/DIR:** 0.66 SW **ELEVATION:** 92 **MAP ID:** 58

NAME: NO LOCATION AID
ADDRESS: 351 JACKSON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026421
ID2:
STATUS: SPECPR
PHONE:

SITE INFORMATION

STATUS: SPECPR - Special Project

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C11 THRU C22 AROMATIC HYDROCARBONS 520 MG/KG
NAPHTHALENE 16 MG/KG
ARSENIC 220 MG/KG
2-METHYLNAPHTHALENE 5.1 MG/KG

SITE ACTIONS

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/19/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/9/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 12/3/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 59 **DIST/DIR:** 0.66 SW **ELEVATION:** 92 **MAP ID:** 58

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	351 JACKSON ST	**ID1:**	3-0026421
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	SPECPR
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 1/9/2008
ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 3/30/2009
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 3/31/2009
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 4/1/2009
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 6/18/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/25/2010
ACT USE LIMITATION:
ACT STATUS: PERMIT EXTENSION RECEIVED
ACT TYPE: SPECIAL PROJECT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 12 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 59

NAME: CITY OF LOWELL DPW
ADDRESS: 261 & 295 BROADWAY ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013249
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: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

BENZO(K)FLUORANTHENE 2.7 PPM
BENZO[B]FLUORANTHENE 4 PPM
CHRYSENE 10 PPM
1,3,5-TRIMETHYL BENZENE 17.5 PPM
2-METHYLNAPHTHALENE 12 PPM
BENZENE 5380 PPB
BENZO[A]ANTHRACENE 7.4 PPM
DIBENZO[A,H]ANTHRACENE 3.1 PPM
ETHYLBENZENE 159 PPM
LEAD 6.4 PPM
NAPHTHALENE 12 PPM
BENZO[A]PYRENE 3.6 PPM
XYLENE 6310 PPB
TPH 7800 PPM
TOLUENE 9130 PPB

SITE ACTIONS

LSP INVOLVED: CHARLES TEALE

TS DATE: 12/11/1995
AUL RESTRICTION:
LSP:
RA STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
RAS TYPE: FEND
RAO CLASS:

TS DATE: 12/11/1995
AUL RESTRICTION:
LSP: CHARLES TEALE
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 12 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 59

NAME: CITY OF LOWELL DPW
ADDRESS: 261 & 295 BROADWAY ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013249
ID2:
STATUS: RAO
PHONE:

ACT DATE:
ACT USE LIMITATION:
ACT STATUS: APPROV
ACT TYPE: BWS02
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE:
ACT USE LIMITATION:
ACT STATUS: APPROV
ACT TYPE: BWS20
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/11/1995
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: 12/11/1995
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: 12/11/1995
ACT USE LIMITATION:
ACT STATUS: TIER 1B CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 12/11/1995
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: 12/11/1995
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: 1/30/1996
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 12 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 59

NAME: CITY OF LOWELL DPW
ADDRESS: 261 & 295 BROADWAY ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013249
ID2:
STATUS: RAO
PHONE:

ACT DATE: 1/30/1996
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: 2/13/1996
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: 4/1/1996
ACT USE LIMITATION:
ACT STATUS: TIER 1C CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/1/1996
ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/1/1996
ACT USE LIMITATION:
ACT STATUS: DEP DISAGREES WITH CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/3/1996
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: 4/25/1996
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: 8/23/1996
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

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

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 23 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 59

NAME: FMR LOWELL DPW YARD
ADDRESS: 261 AND 295 BROADWAY
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018083
ID2:
STATUS: DPSTRM
PHONE:

SITE INFORMATION

STATUS: DPSTRM - (Downgradient Property Status Terminated): A site where Downgradient Property Status has been terminated.

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

TOLUENE 9.1 MG/L
BENZENE 5.4 MG/L

SITE ACTIONS

LSP INVOLVED: CHARLES TEALE

ACT DATE: 1/4/1996
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

ACT DATE: 1/4/1996
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/25/1999
ACT USE LIMITATION:
ACT STATUS: ACTION STATUS OR AUL TERMINATED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 26 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 60

NAME: GASOLINE STATION
ADDRESS: FLETCHER & BROADWAY ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001143
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: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 8/5/1996
AUL RESTRICTION: NON
LSP: JAMES BORREBACH
RA STATUS:
RAS TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/15/1990
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: 8/5/1996
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: 9/4/1996
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: 10/2/1996
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 57 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 61

NAME: NO LOCATION AID
ADDRESS: 379 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026426
ID2:
STATUS: SPECPR
PHONE:

SITE INFORMATION

STATUS: SPECPR - Special Project

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

1,3,5-TRIMETHYL BENZENE 230 MG/KG
C5 THRU C8 ALIPHATIC HYDROCARBONS 900 MG/KG
XYLENE 660 MG/KG
XYLENE 8.5 MG/L
NAPHTHALENE 170 MG/KG
ETHYLBENZENE 84 MG/KG
C9 THRU C10 AROMATIC HYDROCARBONS 10 MG/L
C9 THRU C18 ALIPHATIC HYDROCARBONS 2200 MG/KG
C5 THRU C8 ALIPHATIC HYDROCARBONS 1.2 MG/L
C11 THRU C22 AROMATIC HYDROCARBONS 610 MG/KG
2-METHYLNAPHTHALENE 57 MG/KG
C9 THRU C10 AROMATIC HYDROCARBONS 2100 MG/KG
C9 THRU C12 ALIPHATIC HYDROCARBONS 3.5 MG/L

SITE ACTIONS

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/19/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/7/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 57 **DIST/DIR:** 0.68 SW **ELEVATION:** 104 **MAP ID:** 61

NAME: NO LOCATION AID
ADDRESS: 379 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026426
ID2:
STATUS: SPECPR
PHONE:

ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 12/3/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 1/9/2008
ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 1/25/2010
ACT USE LIMITATION:
ACT STATUS: PERMIT EXTENSION RECEIVED
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 9/22/2010
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 10/1/2010
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 2/16/2011
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 2/18/2011
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 58 **DIST/DIR:** 0.69 SW **ELEVATION:** 105 **MAP ID:** 62

NAME: NO LOCATION AID
ADDRESS: 389 MIDDLESEX ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0026425
ID2:
STATUS: SPECPR
PHONE:

SITE INFORMATION

STATUS: SPECPR - Special Project

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C11 THRU C22 AROMATIC HYDROCARBONS 210 MG/KG
CHROMIUM 35 MG/KG
NICKEL 30 MG/KG

SITE ACTIONS

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 11/24/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/19/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 10/9/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 12/3/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 1/9/2008

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 58 **DIST/DIR:** 0.69 SW **ELEVATION:** 105 **MAP ID:** 62

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	389 MIDDLESEX ST	**ID1:**	3-0026425
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	SPECPR
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE
ACT TYPE: SPECIAL PROJECT
RAO CLASS:

ACT DATE: 1/25/2010
ACT USE LIMITATION:
ACT STATUS: PERMIT EXTENSION RECEIVED
ACT TYPE: SPECIAL PROJECT

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 39 **DIST/DIR:** 0.76 SW **ELEVATION:** 122 **MAP ID:** 63

NAME: LOWELL SUPERIOR COURTHOUSE
ADDRESS: 360 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020557
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.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COURTHOUSE, STATE,
SOURCE: AST;
SITE DESCRIPTION:

CHEMICALS

#2 FUEL OIL
FUEL OIL #2

SITE ACTIONS

LSP INVOLVED: MICHAEL PENZO

LSP INVOLVED: EDWARD COBBETT

ACT DATE: 4/2/2001
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/2/2001
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/2/2001
ACT USE LIMITATION:
ACT STATUS: FLDD1U
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/2/2001
ACT USE LIMITATION:
ACT STATUS: FLDISS
ACT TYPE: NOTICE OF RESPONSIBILITY

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 39 **DIST/DIR:** 0.76 SW **ELEVATION:** 122 **MAP ID:** 63

NAME: LOWELL SUPERIOR COURTHOUSE
ADDRESS: 360 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020557
ID2:
STATUS: TIERII
PHONE:

RAO CLASS:

ACT DATE: 4/10/2001
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/11/2001
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/12/2001
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/19/2001
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/1/2001
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/1/2001
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 6/28/2001
ACT USE LIMITATION:
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/1/2001
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF A MODIFIED PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 39 **DIST/DIR:** 0.76 SW **ELEVATION:** 122 **MAP ID:** 63

NAME: LOWELL SUPERIOR COURTHOUSE
ADDRESS: 360 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020557
ID2:
STATUS: TIERII
PHONE:

RAO CLASS:

ACT DATE: 8/13/2001
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 3/27/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/8/2002
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/17/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/17/2002
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 6/17/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/17/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 8/23/2002
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 47 **DIST/DIR:** 0.78 SW **ELEVATION:** 122 **MAP ID:** 64

NAME: NO LOCATION AID
ADDRESS: 376 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021072
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: UST;
SITE DESCRIPTION:

CHEMICALS

C5 THRU C8 ALIPHATIC HYDROCARBONS 4700 UG/L
C9 THRU C10 AROMATIC HYDROCARBONS 5900 UG/L
C9 THRU C12 ALIPHATIC HYDROCARBONS 3600 UG/L

SITE ACTIONS

LSP INVOLVED: THOMAS WILLIAMSON

ACT DATE: 9/6/2001
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: 9/6/2001
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: 12/19/2001
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: 9/16/2002
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: 9/16/2002
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 47 **DIST/DIR:** 0.78 SW **ELEVATION:** 122 **MAP ID:** 64

NAME: NO LOCATION AID
ADDRESS: 376 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021072
ID2:
STATUS: RAO
PHONE:

ACT DATE: 9/16/2002
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: 9/16/2002
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: 9/13/2004
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: 9/13/2004
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: 3/8/2006
ACT USE LIMITATION:
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: PHASE 3
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 3/8/2006
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 6/5/2006
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: 8/24/2006
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 47 **DIST/DIR:** 0.78 SW **ELEVATION:** 122 **MAP ID:** 64

NAME: NO LOCATION AID
ADDRESS: 376 GORHAM ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021072
ID2:
STATUS: RAO
PHONE:

ACT DATE: 12/4/2006
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/12/2007
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 3/15/2007
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/10/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/10/2007
ACT USE LIMITATION:
ACT STATUS: AS-BUILT CONSTRUCTION REPORT RECEIVED
ACT TYPE: PHASE 4
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 4/10/2007
ACT USE LIMITATION:
ACT STATUS: WORK STARTED
ACT TYPE: PHASE 5
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 5/30/2007
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 7/26/2007
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
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 -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 72 **DIST/DIR:** 0.78 SW **ELEVATION:** 122 **MAP ID:** 64

NAME: SUNOCO SERVICE STA 0005 3
ADDRESS: 376 GORHAM ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0003491
ID2:
STATUS: LSPNFA
PHONE:

SITE INFORMATION

STATUS: LSPNFA - LSP No Further Action means that response actions were conducted and an LSP determined that no further action was needed to the site.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1991 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: GASSTATION,
SOURCE: UST;
SITE DESCRIPTION: GASOLINE PRESENT; GAS STATION; RELEASE TO SOIL; CONTAINED IN A LUST; GROUNDWATER RELEASE THREAT;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 8/9/1996
AUL RESTRICTION:
LSP: JOEL LOITHERSTEIN
RA STATUS:
RAS TYPE: LSP-NFA
RAO CLASS:

ACT DATE: 1/15/1991
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 8/9/1996
ACT USE LIMITATION:
ACT STATUS: LSP NO FURTHER ACTION MEANS THAT RESPONSE ACTIONS WERE CONDUCTED AND AN LSP DETERMINED THAT NO FURTHER ACTION WAS NEEDED TO THE SITE.
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 60 **DIST/DIR:** 0.81 SW **ELEVATION:** 110 **MAP ID:** 65

NAME: NO LOCATION AID
ADDRESS: 68 ARCH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017756
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

C9 THRU C18 ALIPHATIC HYDROCARBONS 1600 MG/KG

SITE ACTIONS

LSP INVOLVED: SAMUEL BUTCHER

ACT DATE: 12/17/1998
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: 12/17/1998
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: 5/18/1999
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: 7/26/2001
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: 7/26/2001
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: 7/26/2001

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 60 **DIST/DIR:** 0.81 SW **ELEVATION:** 110 **MAP ID:** 65

NAME: NO LOCATION AID
ADDRESS: 68 ARCH ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017756
ID2:
STATUS: RAO
PHONE:

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: 8/24/2001
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: 12/7/2001
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: 12/7/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 33 **DIST/DIR:** 0.83 SW **ELEVATION:** 100 **MAP ID:** 66

NAME: JOAN FABRICS CORP
ADDRESS: 122 WESTERN AVE
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001840
ID2:
STATUS: PENNFA
PHONE:

SITE INFORMATION

STATUS: PENNFA - Pending No Further Action means a document was submitted to DEP asserting that a site assessment had determined that no further action was required. These submittals are considered pending until DEP audits them.

LTBI: 1/15/1989 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 9/30/1993
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: CON-NFA
RAO CLASS:

TS DATE: 7/31/1995
AUL RESTRICTION: NOT
LSP: DUNCAN WOOD
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: PARTIAL RAO FOR THIS RTN
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: 1/15/1989
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 9/30/1993
ACT USE LIMITATION:
ACT STATUS: PENDING NO FURTHER ACTION MEANS A DOCUMENT WAS SUBMITTED TO DEP ASSERTING THAT A SITE ASSESSMENT HAD DETERMINED THAT NO FURTHER ACTION WAS REQUIRED. THESE SUBMITTALS ARE CONSIDERED PENDING UNTIL DEP AUDITS THEM.
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 7/31/1995
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: PARTIAL RAO FOR THIS RTN

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 33 **DIST/DIR:** 0.83 SW **ELEVATION:** 100 **MAP ID:** 66

NAME: JOAN FABRICS CORP
ADDRESS: 122 WESTERN AVE
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001840
ID2:
STATUS: PENNFA
PHONE:

RAO CLASS:

ACT DATE: 7/31/1995
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS:

ACT DATE: 3/26/1999
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS:

ACT DATE: 11/7/2001
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS:

ACT DATE: 11/7/2001
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: PARTIAL RAO FOR THIS RTN

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 42 **DIST/DIR:** 0.83 SW **ELEVATION:** 111 **MAP ID:** 67

NAME: MARTIN WELDING
ADDRESS: 731 DUTTON ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004815
ID2:
STATUS: WCSPRM
PHONE:

SITE INFORMATION

STATUS: WCSPRM - A Waiver Completion Statement has been submitted to DEP.

LTBI: 10/1/1993 CONFIRMED: 10/1/1993
DELETED: REMOVED:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION: GASOLINE PRESENT; COAL GAS PRESENT; RELEASE TO SOIL; GROUNDWATER RELEASE;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

TS DATE: 10/11/1996
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: WCS-PERM
RAO CLASS:

ACT DATE: 7/30/1993
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 7/30/1993
ACT USE LIMITATION:
ACT STATUS: WAVDN
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 10/1/1993
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/21/1994

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 42 **DIST/DIR:** 0.83 SW **ELEVATION:** 111 **MAP ID:** 67

NAME: MARTIN WELDING
ADDRESS: 731 DUTTON ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0004815
ID2:
STATUS: WCSPRM
PHONE:

ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 2/14/1994
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 10/11/1996
ACT USE LIMITATION:
ACT STATUS: A WAIVER COMPLETION STATEMENT HAS BEEN SUBMITTED TO DEP.
ACT TYPE: TRANSITION REGULATIONS

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 89 **DIST/DIR:** 0.85 SW **ELEVATION:** 108 **MAP ID:** 68

NAME: NO LOCATION AID
ADDRESS: 479 BROADWAY
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017804
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: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

DIESEL
GASOLINE 100 PPMV

SITE ACTIONS

LSP INVOLVED: RICHARD CUSHING

LSP INVOLVED: ROBERT PEASE

ACT DATE: 12/30/1998
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: 12/30/1998
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: 2/2/1999
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: 3/1/1999
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 89 **DIST/DIR:** 0.85 SW **ELEVATION:** 108 **MAP ID:** 68

NAME: NO LOCATION AID
ADDRESS: 479 BROADWAY
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017804
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: 3/8/1999
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: 8/17/2000
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: 12/20/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 12/20/2000
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 12/20/2000
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 1/4/2001
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
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: 12/23/2002
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 3
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: 12/23/2002
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 89 **DIST/DIR:** 0.85 SW **ELEVATION:** 108 **MAP ID:** 68

NAME: NO LOCATION AID
ADDRESS: 479 BROADWAY
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0017804
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: 11/24/2003
ACT USE LIMITATION:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TIER CLASSIFICATION
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: 12/30/2003
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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: 12/30/2003
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 12/30/2003
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: 1/8/2004
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
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: 11/18/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN 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: 11/18/2005
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
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: 11/10/2008
ACT USE LIMITATION:
ACT STATUS: AUDIT INSPECTION
ACT TYPE: ACTIVITY AND USE LIMITATION

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 20 **DIST/DIR:** 0.86 SW **ELEVATION:** 141 **MAP ID:** 69

NAME: CRNR OF WESTFORD CHELMSFORD ST
ADDRESS: 55 CHELMSFORD ST
LOWELL MA 01851
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0022192
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

ARSENIC 69.8 MG/KG
MTBE .412 MG/KG
TETRACHLOROETHENE .76 MG/KG

SITE ACTIONS

LSP INVOLVED: ANTHONY ANDRONICO

ACT DATE: 10/7/2002
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: 10/7/2002
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: 10/7/2002
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: 10/8/2002
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: 11/21/2002
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 20 **DIST/DIR:** 0.86 SW **ELEVATION:** 141 **MAP ID:** 69

NAME: CRNR OF WESTFORD CHELMSFORD ST
ADDRESS: 55 CHELMSFORD ST
LOWELL MA 01851
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0022192
ID2:
STATUS: RAO
PHONE:

ACT DATE: 1/21/2003
ACT USE LIMITATION:
ACT STATUS: MODIFIED REVISED OR UPDATED 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: 1/21/2003
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 9/3/2003
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: 10/20/2003
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: 10/20/2003
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: 10/20/2003
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/20/2003
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: 10/20/2003
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

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 20 **DIST/DIR:** 0.86 SW **ELEVATION:** 141 **MAP ID:** 69

NAME:	CRNR OF WESTFORD CHELMSFORD ST	**REV:**	1/3/12
ADDRESS:	55 CHELMSFORD ST	**ID1:**	3-0022192
	LOWELL MA 01851	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 1/25/2005
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 37 **DIST/DIR:** 0.86 SW **ELEVATION:** 127 **MAP ID:** 70

NAME: LOWELL REGIONAL TRANSIT AUTHORITY
ADDRESS: 145 THORNDIKE ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0024236
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

ARSENIC 77.3 MG/KG
TPH 2400 MG/KG
UNKNOWN 4.5 MG/KG

SITE ACTIONS

LSP INVOLVED: ANTHONY ANDRONICO

ACT DATE: 9/9/2004
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 9/10/2004
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

ACT DATE: 9/10/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 9/10/2004
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: 10/27/2004
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION 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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 37 **DIST/DIR:** 0.86 SW **ELEVATION:** 127 **MAP ID:** 70

NAME: LOWELL REGIONAL TRANSIT AUTHORITY
ADDRESS: 145 THORNDIKE ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0024236
ID2:
STATUS: RAO
PHONE:

ACT DATE: 1/18/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 7/26/2005
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 9/20/2005
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 9/20/2005
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
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: 9/20/2005
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
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: 9/20/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 9/21/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
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: 9/21/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 37 **DIST/DIR:** 0.86 SW **ELEVATION:** 127 **MAP ID:** 70

NAME:	LOWELL REGIONAL TRANSIT AUTHORITY	**REV:**	1/3/12
ADDRESS:	145 THORNDIKE ST	**ID1:**	3-0024236
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 9/19/2008
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 4
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: 7/15/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 7/21/2009
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
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: 10/30/2009
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: 11/12/2009
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: 11/12/2009
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 90 **DIST/DIR:** 0.86 SW **ELEVATION:** 106 **MAP ID:** 71

NAME: NO LOCATION AID
ADDRESS: 498 BROADWAY
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018153
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.

LTBI: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 120 PPMV
GASOLINE 100 PPM

SITE ACTIONS

LSP INVOLVED: MICHAEL PENNEY

LSP INVOLVED: 5323

LSP INVOLVED: MARK GERMANO

ACT DATE: 4/2/1999
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/2/1999
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/15/1999
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/2/1999
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 90 **DIST/DIR:** 0.86 SW **ELEVATION:** 106 **MAP ID:** 71

NAME: NO LOCATION AID
ADDRESS: 498 BROADWAY
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018153
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 6/9/1999
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/28/1999
ACT USE LIMITATION:
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/2/1999
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 10/15/1999
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 11/3/1999
ACT USE LIMITATION:
ACT STATUS: FLDRUN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/10/2000
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 4/10/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 4/10/2000
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 90 **DIST/DIR:** 0.86 SW **ELEVATION:** 106 **MAP ID:** 71

NAME: NO LOCATION AID
ADDRESS: 498 BROADWAY
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0018153
ID2:
STATUS: TIERII
PHONE:

ACT DATE: 4/14/2000
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 1/25/2002
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/17/2002
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 11/8/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 11/8/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 4/26/2004
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 7/6/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 7/6/2004
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 69 **DIST/DIR:** 0.86 SW **ELEVATION:** 108 **MAP ID:** 72

NAME: SCHOOL ST RIGHT OF WAY
ADDRESS: 775 DUTTON ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0010486
ID2:
STATUS: TIER1B
PHONE:

SITE INFORMATION

STATUS: TIER 1B - A site/release receiving an NRS score less than 550 and equal to or greater than 450. These sites/releases also require a permit, but response actions may be performed under the supervision of a License Site Professional (LSP) without prior DEP approval.

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: INDUSTRIAL,
SOURCE: PIPE;
SITE DESCRIPTION:

CHEMICALS

DIESEL FUEL 300 GAL
DIESEL FUEL 142 GAL

SITE ACTIONS

LSP INVOLVED: FRANK LILLEY

LSP INVOLVED: KIM HENRY

ACT DATE: 11/17/1994
ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0000348
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 1/28/1994
ACT USE LIMITATION:
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 1/28/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 2/10/1994
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 69 **DIST/DIR:** 0.86 SW **ELEVATION:** 108 **MAP ID:** 72

NAME: SCHOOL ST RIGHT OF WAY
ADDRESS: 775 DUTTON ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0010486
ID2:
STATUS: TIER1B
PHONE:

ACT DATE: 2/28/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/3/1994
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 3/28/1994
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 8/31/1994
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/17/1994
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 11/17/1994
ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 11/17/1994
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/30/1994
ACT USE LIMITATION:
ACT STATUS: PERMIT EFFECTIVE DATE
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 69 **DIST/DIR:** 0.86 SW **ELEVATION:** 108 **MAP ID:** 72

NAME: SCHOOL ST RIGHT OF WAY
ADDRESS: 775 DUTTON ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0010486
ID2:
STATUS: TIER1B
PHONE:

ACT DATE: 12/30/1994
ACT USE LIMITATION:
ACT STATUS: TIER 1B CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 1/26/2010
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 1/26/2010
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 3/12/2010
ACT USE LIMITATION:
ACT STATUS: PERMIT EXTENSION RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/8/2010
ACT USE LIMITATION:
ACT STATUS: LSPMP
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/16/2011
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 64 **DIST/DIR:** 0.87 SW **ELEVATION:** 105 **MAP ID:** 73

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	234 MOUNT VERNON ST	**ID1:**	3-0025790
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	DPS
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

SITE INFORMATION

STATUS: DPS - (Downgradient Property Status): A site where DPS Submittal to DEP has stated that contamination on the property is coming from an Upgradient property.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

C9 THRU C10 AROMATIC HYDROCARBONS 700 MG/KG
C9 THRU C18 ALIPHATIC HYDROCARBONS 11000 MG/KG
C19 THRU C36 ALIPHATIC HYDROCARBONS 5200 MG/KG

SITE ACTIONS

LSP INVOLVED: JONATHAN MOORE

ACT DATE: 3/31/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/31/2006
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/14/2006
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 2/12/2007
ACT USE LIMITATION:
ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/8/2008
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 64 **DIST/DIR:** 0.87 SW **ELEVATION:** 105 **MAP ID:** 73

NAME: NO LOCATION AID
ADDRESS: 234 MOUNT VERNON ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0025790
ID2:
STATUS: DPS
PHONE:

ACT DATE: 1/8/2008
ACT USE LIMITATION:
ACT STATUS: COMPLIANCE INITIATIVE LETTER SENT
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/5/2008
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/30/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 6/30/2008
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/30/2008
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/30/2008
ACT USE LIMITATION:
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 3/2/2010
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DOWNGRADIENT PROPERTY STATUS
RAO CLASS:

ACT DATE: 3/2/2010
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 64 **DIST/DIR:** 0.87 SW **ELEVATION:** 105 **MAP ID:** 73

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	234 MOUNT VERNON ST	**ID1:**	3-0025790
	LOWELL MA 01854	**ID2:**	
	MIDDLESEX	**STATUS:**	DPS
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

ACT DATE: 6/28/2011
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: DOWNGRADIENT PROPERTY STATUS

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 91 **DIST/DIR:** 0.87 SW **ELEVATION:** 114 **MAP ID:** 74

NAME: NO LOCATION AID
ADDRESS: 176 CROSS ST
LOWELL MA 01853
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0022348
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

C11 THRU C22 AROMATIC HYDROCARBONS 206 MG/KG

SITE ACTIONS

LSP INVOLVED: MARK GERMANO

LSP INVOLVED: MATTHEW ROBBINS

ACT DATE: 11/25/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 11/25/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 11/25/2002
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 4/23/2003
ACT USE LIMITATION:
ACT STATUS: FEE RECEIVED-FMCRA USE ONLY
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS: B1 - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

ACT DATE: 6/18/2003
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 13 **DIST/DIR:** 0.88 SW **ELEVATION:** 106 **MAP ID:** 75

NAME: COMMERCIAL PROPERTY
ADDRESS: 774 DUTTON ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002629
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.

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: KIM HENRY

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/18/2007
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/8/2008
ACT USE LIMITATION:
ACT STATUS: COMPLIANCE INITIATIVE LETTER SENT
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 1/8/2008
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 13 **DIST/DIR:** 0.88 SW **ELEVATION:** 106 **MAP ID:** 75

NAME: COMMERCIAL PROPERTY
ADDRESS: 774 DUTTON ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002629
ID2:
STATUS: TIERII
PHONE:

RAO CLASS:

ACT DATE: 6/18/2008
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/18/2008
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/18/2008
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 6/8/2010
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 34 **DIST/DIR:** 0.89 NW **ELEVATION:** 117 **MAP ID:** 76

NAME: KINNEYS TEXACO SERVICE
ADDRESS: 262 PAWTUCKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002609
ID2:
STATUS: REMOPS
PHONE:

SITE INFORMATION

STATUS: REMOPS - Remedy Operating Status

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 1/15/1990 CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE:
SITE DESCRIPTION: GASOLINE PRESENT; COMMERCIAL SITE;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: RICHARD CUSHING

LSP INVOLVED: ALTON STONE

TS DATE: 6/13/1996
AUL RESTRICTION:
LSP: ALTON STONE
RA STATUS:
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 4/19/1996
AUL RESTRICTION:
LSP: ALTON STONE
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 6/13/1996
AUL RESTRICTION:
LSP: ALTON STONE
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 34 **DIST/DIR:** 0.89 NW **ELEVATION:** 117 **MAP ID:** 76

NAME: KINNEYS TEXACO SERVICE
ADDRESS: 262 PAWTUCKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002609
ID2:
STATUS: REMOPS
PHONE:

RAO CLASS:

TS DATE: 4/19/1996
AUL RESTRICTION:
LSP: ALTON STONE
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

ACT DATE: 1/15/1990
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/19/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 4/19/1996
ACT USE LIMITATION:
ACT STATUS: LSPFA
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: LSPFA
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 34 **DIST/DIR:** 0.89 NW **ELEVATION:** 117 **MAP ID:** 76

NAME: KINNEYS TEXACO SERVICE
ADDRESS: 262 PAWTUCKET ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002609
ID2:
STATUS: REMOPS
PHONE:

ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 5/4/2004
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 6/4/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/31/2004
ACT USE LIMITATION:
ACT STATUS: ACOP
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 2/9/2005
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 2/9/2005
ACT USE LIMITATION:
ACT STATUS: NOTICE OF DELAY IN MEETING RA DEADLINE RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 5/2/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 5/2/2005
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 92 **DIST/DIR:** 0.89 NW **ELEVATION:** 117 **MAP ID:** 76

NAME: NO LOCATION AID
ADDRESS: 262 PAWTUCKET ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013603
ID2:
STATUS: RAONR
PHONE:

SITE INFORMATION

STATUS: RAONR - Response action outcome not required

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION: GASOLINE PRESENT; COMMERCIAL SITE; GROUNDWATER RELEASE; CONTAINED IN A LUST;

OTHER CONTAMINATION:
OTHER RELEASES: BTEX AND TPH
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

TPH 43000 UG/L
UNKNOWN CHEMICAL OF UNKNOWN TYPE 2.3 MG/L
TOLUENE 7900 UG/L
ETHYLBENZENE 1900 UG/L
BTEX
BENZENE 390 UG/L
XYLENE 12900 UG/L

SITE ACTIONS

LSP INVOLVED: ALTON STONE

TS DATE: 6/13/1996
AUL RESTRICTION:
LSP: ALTON STONE
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 6/13/1996
AUL RESTRICTION:
LSP:
RA STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
RAS TYPE: FEND
RAO CLASS:

ACT DATE: 6/14/1996

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 92 **DIST/DIR:** 0.89 NW **ELEVATION:** 117 **MAP ID:** 76

NAME: NO LOCATION AID
ADDRESS: 262 PAWTUCKET ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013603
ID2:
STATUS: RAONR
PHONE:

ACT USE LIMITATION:
LSP:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID: 3-0002609
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 3/25/1996
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 3/25/1996
ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 4/19/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 4/19/1996
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 5/24/1996
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 5/24/1996
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TRANSITION SITE - OBSOLETE STATUS
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 5/24/1996
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 92 **DIST/DIR:** 0.89 NW **ELEVATION:** 117 **MAP ID:** 76

NAME: NO LOCATION AID
ADDRESS: 262 PAWTUCKET ST
LOWELL MA 01854
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0013603
ID2:
STATUS: RAONR
PHONE:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/13/1996
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/14/1996
ACT USE LIMITATION:
ACT STATUS: LINKED TO A TIER CLASSIFIED SITE
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 6/4/2004
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 8/31/2004
ACT USE LIMITATION:
ACT STATUS: ACOP
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 5/2/2005
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 68 **DIST/DIR:** 0.89 SW **ELEVATION:** 107 **MAP ID:** 77

NAME: PROPOSED MIDDLE SCHOOL
ADDRESS: 225 MT VERNON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021464
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

BENZO[A]PYRENE 60 MG/KG
CYANIDE .82 MG/L
BENZO[A]ANTHRACENE 57 MG/KG

SITE ACTIONS

LSP INVOLVED: NEAL CAREY

ACT DATE: 2/6/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 2/6/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/12/2002
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 4/26/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 4/26/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 68 **DIST/DIR:** 0.89 SW **ELEVATION:** 107 **MAP ID:** 77

NAME: PROPOSED MIDDLE SCHOOL
ADDRESS: 225 MT VERNON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021464
ID2:
STATUS: RAO
PHONE:

ACT DATE: 6/28/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/28/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/4/2002
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/2/2003
ACT USE LIMITATION:
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/20/2003
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 11/6/2003
ACT USE LIMITATION:
ACT STATUS: NORA
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 12/2/2003
ACT USE LIMITATION:
ACT STATUS: NORA
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 1/20/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 68 **DIST/DIR:** 0.89 SW **ELEVATION:** 107 **MAP ID:** 77

NAME: PROPOSED MIDDLE SCHOOL
ADDRESS: 225 MT VERNON ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021464
ID2:
STATUS: RAO
PHONE:

ACT DATE: 3/2/2004
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/9/2004
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 4/2/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 7/21/2005
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 7/28/2005
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 8/23/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 9/13/2005
ACT USE LIMITATION:
ACT STATUS: NON-A
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 12/19/2005
ACT USE LIMITATION:
ACT STATUS: NON-A
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

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

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 16 **DIST/DIR:** 0.91 SE **ELEVATION:** 96 **MAP ID:** 78

NAME: COMPO INDUSTRIES
ADDRESS: 75 ROGERS ST
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0001154
ID2:
STATUS: PENNFA
PHONE:

SITE INFORMATION

STATUS: PENNFA - Pending No Further Action means a document was submitted to DEP asserting that a site assessment had determined that no further action was required. These submittals are considered pending until DEP audits them.

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: 10/15/1988 CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: COMMERCIAL, INDUSTRIAL, MANUFACT,
SOURCE:
SITE DESCRIPTION: COMMERCIAL SITE; INDUSTRIAL SITE; MANUFACTURING FACILITY;

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

CHEMICALS

PHTHALATE ESTER

SITE ACTIONS

TS DATE: 8/2/1995
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: CON-NFA
RAO CLASS:

ACT DATE: 10/15/1988
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 8/2/1995
ACT USE LIMITATION:
ACT STATUS: PENDING NO FURTHER ACTION MEANS A DOCUMENT WAS SUBMITTED TO DEP ASSERTING THAT A SITE ASSESSMENT HAD DETERMINED THAT NO FURTHER ACTION WAS REQUIRED. THESE SUBMITTALS ARE CONSIDERED PENDING UNTIL DEP AUDITS THEM.
ACT TYPE: TRANSITION REGULATIONS

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 19 **DIST/DIR:** 0.94 SW **ELEVATION:** 104 **MAP ID:** 79

NAME: CORNER OF SCHOOL ST AND ROCK ST N SIDE
ADDRESS: 294 SCHOOL ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020861
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: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: INDUSTRIAL,
SOURCE: UNKNOWN;
SITE DESCRIPTION:

CHEMICALS

ARSENIC 69 PPM
ARSENIC 69 MG/KG

SITE ACTIONS

LSP INVOLVED: NEAL CAREY

LSP INVOLVED: 8978

LSP INVOLVED: N/A

ACT DATE: 6/29/2001
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: 6/29/2001
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: 7/27/2001
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: 8/27/2001
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

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 19 **DIST/DIR:** 0.94 SW **ELEVATION:** 104 **MAP ID:** 79

NAME: CORNER OF SCHOOL ST AND ROCK ST N SIDE
ADDRESS: 294 SCHOOL ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020861
ID2:
STATUS: RAO
PHONE:

ACT DATE: 8/27/2001
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

ACT DATE: 8/27/2001
ACT USE LIMITATION:
ACT STATUS: IMMINENT HAZARD EVALUATION 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: 4/26/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
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: 4/26/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
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: 6/28/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
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: 6/28/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
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: 10/4/2002
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 1/2/2003
ACT USE LIMITATION:
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 19 **DIST/DIR:** 0.94 SW **ELEVATION:** 104 **MAP ID:** 79

NAME: CORNER OF SCHOOL ST AND ROCK ST N SIDE
ADDRESS: 294 SCHOOL ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0020861
ID2:
STATUS: RAO
PHONE:

ACT DATE: 5/20/2003
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 11/6/2003
ACT USE LIMITATION:
ACT STATUS: NORA
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: 12/2/2003
ACT USE LIMITATION:
ACT STATUS: NORA
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: 1/20/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
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: 2/18/2004
ACT USE LIMITATION:
ACT STATUS: RTN LINKED TO TCLASS VIA IRA COMPLETION STATEMENT
ACT TYPE: TIER CLASSIFICATION
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: 2/19/2004
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: 2/19/2004
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: 3/2/2004
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
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

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 67 **DIST/DIR:** 0.94 SW **ELEVATION:** 104 **MAP ID:** 79

NAME:	PROPOSED MIDDLE SCHOOL	**REV:**	1/3/12
ADDRESS:	294 SCHOOL ST	**ID1:**	3-0021570
	LOWELL MA 01852	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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

2-METHYLNAPHTHALENE 4 MG/KG
LEAD 700 MG/KG
METHYLENE CHLORIDE 1.1 MG/KG
NAPHTHALENE 13 MG/KG
PHENANTHRENE 100 MG/KG
CHRYSENE 57 MG/KG
BENZO(K)FLUORANTHENE 24 MG/KG
BENZO[A]ANTHRACENE 61 MG/KG
BENZO[A]PYRENE 45 MG/KG
BENZO[B]FLUORANTHENE 75 MG/KG
C11 THRU C22 AROMATIC HYDROCARBONS 2000 MG/KG
CYANIDE .64 MG/L
INDENO(1,2,3-CD)PYRENE 44 MG/KG
1,1-DICHLOROETHENE .0013 MG/L
DIBENZ[A,H]ANTHRACENE 11 MG/KG

SITE ACTIONS

LSP INVOLVED: NEAL CAREY

ACT DATE: 3/13/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/13/2002
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/26/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 67 **DIST/DIR:** 0.94 SW **ELEVATION:** 104 **MAP ID:** 79

NAME: PROPOSED MIDDLE SCHOOL
ADDRESS: 294 SCHOOL ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021570
ID2:
STATUS: RAO
PHONE:

ACT DATE: 4/26/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 4/30/2002
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/28/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 6/28/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/4/2002
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 1/2/2003
ACT USE LIMITATION:
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/20/2003
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 11/6/2003
ACT USE LIMITATION:
ACT STATUS: NORA
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 67 **DIST/DIR:** 0.94 SW **ELEVATION:** 104 **MAP ID:** 79

NAME: PROPOSED MIDDLE SCHOOL
ADDRESS: 294 SCHOOL ST
LOWELL MA 01852
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0021570
ID2:
STATUS: RAO
PHONE:

ACT DATE: 12/2/2003
ACT USE LIMITATION:
ACT STATUS: NORA
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 1/20/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 3/2/2004
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 3/9/2004
ACT USE LIMITATION:
ACT STATUS: INTERIM DEADLINE LETTER ISSUED
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 4/2/2004
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 7/21/2005
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 7/28/2005
ACT USE LIMITATION:
ACT STATUS: FLDRAN
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 8/23/2005
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 98 **DIST/DIR:** 0.94 NW **ELEVATION:** 107 **MAP ID:** 80

NAME: U OF LOWELL NORTH CAMPUS
ADDRESS: 1 UNIVERSITY AVE
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002544
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.

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: R COLLINS

ACT DATE: 12/16/1993
ACT USE LIMITATION:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 12/28/2000
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 12/28/2000
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/28/2000
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/28/2001
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 12/28/2001

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 98 **DIST/DIR:** 0.94 NW **ELEVATION:** 107 **MAP ID:** 80

NAME: U OF LOWELL NORTH CAMPUS
ADDRESS: 1 UNIVERSITY AVE
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002544
ID2:
STATUS: TIERII
PHONE:

ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 4/12/2002
ACT USE LIMITATION:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

ACT DATE: 11/18/2004
ACT USE LIMITATION:
ACT STATUS: ROSSTR
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 12/30/2005
ACT USE LIMITATION:
ACT STATUS: ROSSTR
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 4/27/2007
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 5/4/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 8/4/2008
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS:

ACT DATE: 8/25/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 8/25/2008

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 98 **DIST/DIR:** 0.94 NW **ELEVATION:** 107 **MAP ID:** 80

NAME: U OF LOWELL NORTH CAMPUS
ADDRESS: 1 UNIVERSITY AVE
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002544
ID2:
STATUS: TIERII
PHONE:

ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 12/31/2008
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 12/31/2008
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 7/7/2009
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 7/7/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 12/31/2009
ACT USE LIMITATION:
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 12/31/2009
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 6/30/2010
ACT USE LIMITATION:
ACT STATUS: RMRINT
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 6/30/2010

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 44 **DIST/DIR:** 0.95 SE **ELEVATION:** 103 **MAP ID:** 81

NAME: NO LOCATION AID
ADDRESS: 81 ROGERS ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015096
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: CONFIRMED:
DELETED: REMOVED:

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

CHEMICALS

GASOLINE 1000 PPMV
GASOLINE 1203 PPMV

SITE ACTIONS

LSP INVOLVED: WILLIAM BAIRD

ACT DATE: 5/13/1997
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: 5/13/1997
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: 6/3/1997
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: 7/14/1997
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: 10/2/1997
ACT USE LIMITATION:
ACT STATUS: NON

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 44 **DIST/DIR:** 0.95 SE **ELEVATION:** 103 **MAP ID:** 81

NAME: NO LOCATION AID
ADDRESS: 81 ROGERS ST
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0015096
ID2:
STATUS: RAO
PHONE:

ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 10/13/1999
ACT USE LIMITATION:
ACT STATUS: NON
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 1/3/2001
ACT USE LIMITATION:
ACT STATUS: NOEC
ACT TYPE: COMPLIANCE AND ENFORCEMENT
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKROUND

ACT DATE: 2/22/2002
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: 2/22/2002
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 11 **DIST/DIR:** 0.96 SW **ELEVATION:** 117 **MAP ID:** 82

NAME: BROADWAY CONDOS
ADDRESS: 590 BROADWAY
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002102
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: 10/15/1989 CONFIRMED: 10/15/1989
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LTBI: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: FORMER, UTILITY, OPENSPACE,
SOURCE:
SITE DESCRIPTION: FORMER; CYANIDE PRESENT; UNDEVELOPED SITE; UTILITY SITE; RELEASE TO SOIL;

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

CHEMICALS

UNKNOWN

SITE ACTIONS

LSP INVOLVED: NEAL CAREY

TS DATE: 6/16/1994
AUL RESTRICTION: NOT
LSP: KIM HENRY
RA STATUS:
RAS TYPE: WAIV-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: 1/17/1989
ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 1/17/1989
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 11 **DIST/DIR:** 0.96 SW **ELEVATION:** 117 **MAP ID:** 82

NAME: BROADWAY CONDOS
ADDRESS: 590 BROADWAY
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002102
ID2:
STATUS: RAO
PHONE:

ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 5/23/1989
ACT USE LIMITATION:
ACT STATUS: WAVREC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 2/22/1990
ACT USE LIMITATION:
ACT STATUS: WAVSIG
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 2/25/1990
ACT USE LIMITATION:
ACT STATUS: WAVACC
ACT TYPE: TRANSITION REGULATIONS
RAO CLASS:

ACT DATE: 6/16/1994
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

ACT DATE: 6/16/1994
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS:

ACT DATE: 3/26/1999
ACT USE LIMITATION:
ACT STATUS: NOA
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS:

ACT DATE: 8/7/2001
ACT USE LIMITATION:
ACT STATUS: FOLFLD
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 9/18/2001
ACT USE LIMITATION:

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 11 **DIST/DIR:** 0.96 SW **ELEVATION:** 117 **MAP ID:** 82

NAME: BROADWAY CONDOS
ADDRESS: 590 BROADWAY
LOWELL MA 01850
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0002102
ID2:
STATUS: RAO
PHONE:

ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

ACT DATE: 9/18/2001
ACT USE LIMITATION:
ACT STATUS: NAFVIO
ACT TYPE: AUDIT COMMUNICATION AND CORRESPONDENCE
RAO CLASS:

ACT DATE: 5/16/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 5/16/2002
ACT USE LIMITATION:
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 5/16/2002
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 3/1/2007
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO
RAO CLASS:

ACT DATE: 3/1/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS:

ACT DATE: 3/5/2007
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED
ACT TYPE: ACTIVITY AND USE LIMITATION
RAO CLASS:

ACT DATE: 6/6/2011
ACT USE LIMITATION:

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

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 61 **DIST/DIR:** 0.99 SE **ELEVATION:** 156 **MAP ID:** 83

NAME: NO LOCATION AID
ADDRESS: 38 CARRIAGE DR
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019216
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: CONFIRMED:
DELETED: REMOVED:

LOCATION TYPE: RESIDNTIAL,
SOURCE: AST; PIPE;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 200 GAL
FUEL OIL #2 11 GAL

SITE ACTIONS

LSP INVOLVED: WILLIAM SIMMONS

ACT DATE: 1/27/2000
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: 1/27/2000
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: 3/3/2000
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: 3/9/2000
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: 3/9/2000
ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E

- Continued on next page -

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 61 **DIST/DIR:** 0.99 SE **ELEVATION:** 156 **MAP ID:** 83

NAME: NO LOCATION AID
ADDRESS: 38 CARRIAGE DR
LOWELL MA
MIDDLESEX
CONTACT:
SOURCE: MA DEP

REV: 1/3/12
ID1: 3-0019216
ID2:
STATUS: RAO
PHONE:

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

ACT DATE: 3/16/2000
ACT USE LIMITATION:
ACT STATUS: WRITTEN 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: 8/25/2000
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: 8/25/2000
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: 2/2/2001
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: 2/2/2001
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: 2/2/2001
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: 2/2/2001
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: 3/13/2001
ACT USE LIMITATION:
ACT STATUS: LEGAL NOTICE PUBLISHED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

STATE

SEARCH ID: 61 **DIST/DIR:** 0.99 SE **ELEVATION:** 156 **MAP ID:** 83

NAME:	NO LOCATION AID	**REV:**	1/3/12
ADDRESS:	38 CARRIAGE DR	**ID1:**	3-0019216
	LOWELL MA	**ID2:**	
	MIDDLESEX	**STATUS:**	RAO
CONTACT:		**PHONE:**	
SOURCE:	MA DEP		

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

ACT DATE: 8/14/2001
ACT USE LIMITATION:
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RESPONSE ACTION OUTCOME - RAO

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 NPLPROPOSED - 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 siteDELETED - Deleted from the Final NPLFINAL - Currently on the Final NPLNOT PROPOSED - Not on the NPLNOT VALID - Not Valid Site or IncidentPROPOSED - Proposed for NPLREMOVED - Removed from Proposed NPLSCAN PLAN - Pre-proposal SiteWITHDRAWN - 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 PlanP - Site is part of NPL siteD - Deleted from the Final NPLF - Currently on the Final NPLN - Not on the NPLO - Not Valid Site or IncidentP - Proposed for NPLR - Removed from Proposed NPLS - Pre-proposal SiteW – 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: 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.

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 GeneratorsSGN - Small Quantity GeneratorsVGN – 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 NLR: 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.not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification: Failure to report in a timely matter. No longer in business. No longer in business at the listed address. No longer generating hazardous waste materials in quantities which require reporting.

Fed Brownfield: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs./n CLEANUPS IN MY COMMUNITY (subset) - Sites, facilities and properties that have been contaminated by hazardous materials and are being, or have been, cleaned up under EPA's brownfield’s program.

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: MA DEP 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.

State/Tribal Brownfields: MA AGO COMPLETED BROWNFIELD COVENANTS - Database of properties that have been coverd under a completed brownfields covenant not to sue agreement. Massachusetts law M.G.L. c. 21E provides the Attorney General's Office with the authority to enter into Brownfields Covenant Not to Sue Agreements for the sites not addressed by the automatic liability protections. In exchange for a commitment to clean up a site and to undertake a project that contributes to the economic or physical revitalization of the community, we can provide individually-tailored liability relief to property owners and developers at the most difficult sites.

Federal IC / EC: EPA FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated. RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES (RCRA) – RCRA site the have institutional controls.

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: MA DEP Massachusetts Department of Environmental Protection, Bureau of Waste Prevention

Updated when available

RCRA GEN: EPA/MA DEP/CT DEP Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

RCRA NLR: EPA Environmental Protection Agency

Updated quarterly

Fed Brownfield: EPA Environmental Protection Agency

Updated quarterly

ERNS: EPA/NRC Environmental Protection AgencyNational Response Center.

Updated annually

Tribal Lands: DOI/BIA United States Department of the InteriorBureau of Indian Affairs

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: MA DEP Massachusetts Department of Environmental Protection

Updated quarterly

State/Tribal IC: MA DEP Massachusetts Department of Environmental Protection

Updated quarterly

State/Tribal Brownfields: MA AGO Massachusetts Attorney Generals Office

Updated when available

Federal IC / EC: EPA Environmental Protection Agency

Updated quarterly

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 130 FOOT OF JOHN ST
LOWELL MA 01852

JOB: 1717-2010

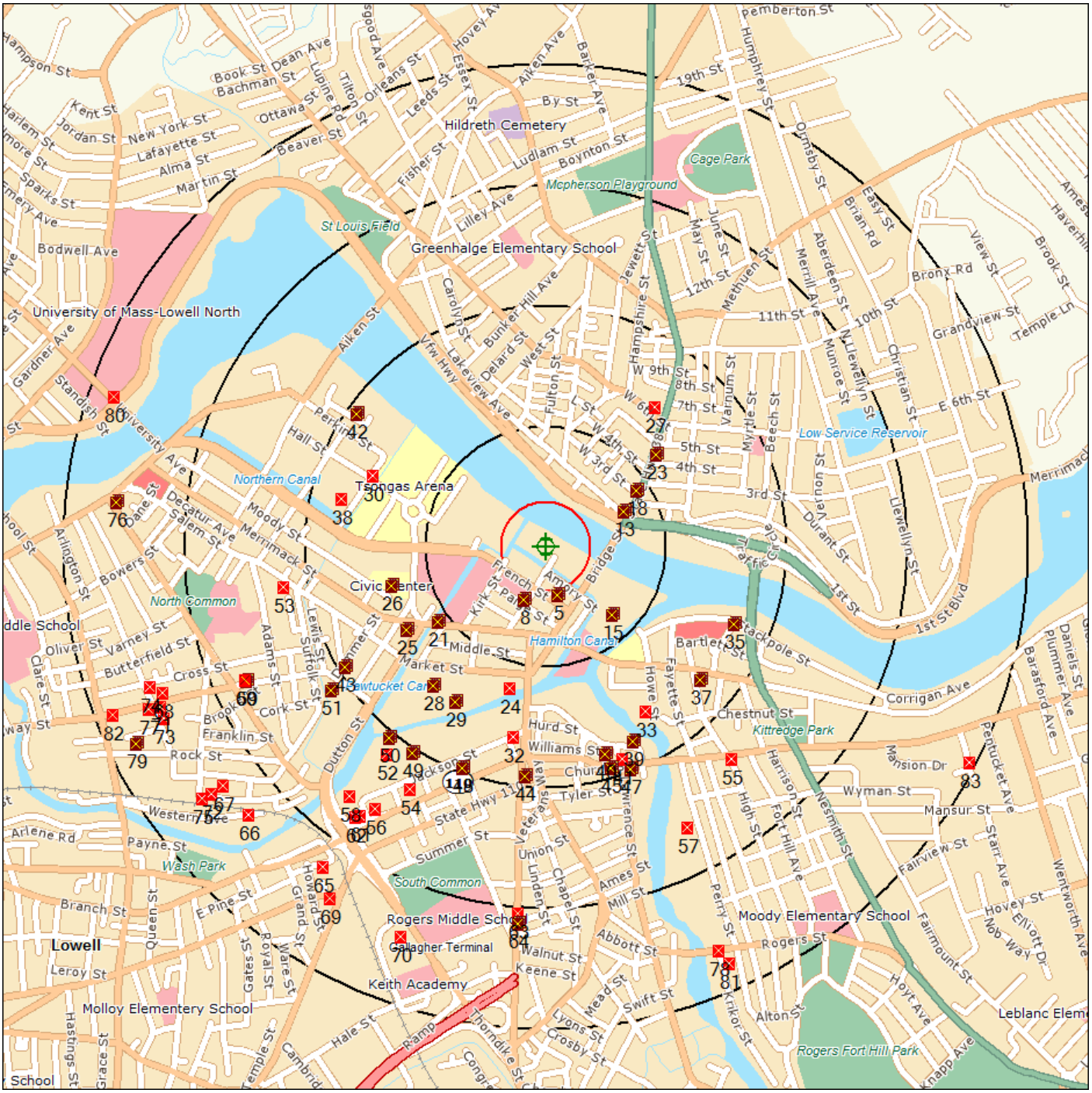
Street Name	Dist/Dir	Street Name	Dist/Dir
1st St Blvd	0.17 SE		
2nd St	0.21 NE		
3rd St	0.24 NE		
Albion St	0.22 NE		
Amory St	0.05 SE		
Beverly Pl	0.18 NE		
Bridge St	0.11 SE		
Brookings St	0.08 SE		
Broughton Ave	0.17 NE		
Central St	0.18 SW		
Clifton Pl	0.19 NE		
Coburn St	0.18 NE		
Courtney Ln	0.14 NE		
Dalton Pl	0.19 NE		
Devlins Ave	0.25 NW		
Devlins St	0.25 NW		
Father Morissette Blvd	0.15 SW		
FOOT OF JOHN ST	0.00--		
Forestview Ave	0.21 NE		
French St	0.09 SW		
Fulton St	0.22 NE		
Hall St E	0.24 NW		
Jewett St	0.25 NE		
John St	0.09 SW		
Kearney Sq	0.19 SE		
Kirk St	0.09 SW		
Lakeview Ave	0.14 NE		
Lee St	0.16 SW		
Mapleview Ave	0.23 NE		
Massmills Dr	0.12 SE		
Merrimack Plz	0.22 NW		
Merrimack St	0.18 SW		
Middle St	0.23 SW		
Paige St	0.13 SW		
Palmer St	0.22 SW		
Post Office Sq	0.14 NW		
Prescott St	0.19 SW		
Ramp	0.19 NE		
Raymond Pl	0.21 NE		
River Pl	0.22 NW		
State Hwy 38	0.17 NE		
Vfw Hwy	0.12 NW		
W 3rd St	0.21 NE		

Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites

130 FOOT OF JOHN ST, LOWELL MA 01852



Source: Tele Atlas

Target Site (Latitude: 42.648171 Longitude: -71.307719) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

130 FOOT OF JOHN ST, LOWELL MA 01852

Source: Tele Atlas

Target Site (Latitude: 42.648171 Longitude: -71.307719) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

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

130 FOOT OF JOHN ST, LOWELL MA 01852

Source: Tele Atlas

Target Site (Latitude: 42.648171 Longitude: -71.307719) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

Non-ASTM Map: Spills 90, Spills 80

130 FOOT OF JOHN ST, LOWELL MA 01852

Source: Tele Atlas

Target Site (Latitude: 42.648171 Longitude: -71.307719) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

National Historic Sites and Landmark Sites .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

APPENDIX B

Boring Logs/Well Construction Logs

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-1730 BORING LOG ID: B-1	DATE OF WORK: 6/6/11 SHEET: 1 of 1 WEATHER: 60-80°'s Sunny; Dry last 48hrs. BORING LOCATION: In NW corner of exterior courtyard at 130 John Street

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Truck-mounted Geoprobe Rig
FOREMAN: Hayes
SAMPLING: Continuous in five foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 10.6 (eV) PID

= INTERVAL SAMPLED FOR ANALYSIS KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION	ADDITIONAL NOTES	WELL CONSTRUCTION
0	S-1	60/24"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Gravel Sands and Gravel Fill	**S-1:** 0-2" Asphlat 2-6" Grey SM GRVL, some lg grvl and F-C sand, moist 6-13" Drk Brn F SAND, ltl M-C sand and sm grvl, trc lg grvl and cobbles and silt, gasified coal piece and trc coal fragments, M dense, damp, slight odor 13-15" Crushed Cobbles 15-17" Blk crushed COAL and gasified coal pieces and ash, trc F-M sand, loose 17-24" Brn F SAND, some M-C sand, trc silt and sm grvl, loose dry, no odor, trc brick fragments	Denotes approximate depth of water table Boring reached refusal at 18 ft BSG. No Monitoring well was installed. Coal, gasified coal, coal ash, brick observed in samples S-1. Brick and coal observed in S-2 and S-3 to lesser degree than S-1.	
5	S-2	60/26"	5-10'	0.0 ppm Background= 0.0 ppm	Sand Cobble Sand	**S-2:** 0-3" Brn F SAND, some M-C sand, trc silt and sm grvl, loose dry, no odor, trc brick fragments 3-4.5" Lt Grey M-C SAND, trc F sand and sm grvl, loose 4.5-12" Brn F SAND, some M-C sand, ltl sm to lg grvl, trc silt, loose dry, no odor, trc brick fragments and coal pieces, piece of wood 12-16" Crushed Cobbles 16-26" Lt Brn F SAND, some M-C sand, trc silt and sm grvl and cobbles, brick piece at end, loose, dry		
10	S-3	60/48"	10-15'	0.0 ppm Background= 0.0 ppm		**S-3:** 0-7" Fall in 7-33" Brn F SAND, ltl silt, loose, moist, no odor, very trc fragments of coal, moist 33-39" Brn with Org banding F SAND, ltl silt, loose, moist, no odor, very trc fragments of coal, damp 39-48" Grey F SAND, trc silt, wet, no odor		
15	S-3	36/32"	15-18'	0.0 ppm Background= 0.0 ppm	Cobble Till	**S-4:** 0-6" Fall in 6-23" Drk Brn/Grey F SAND, trc silt and M sand, wet, loose, no odor, trc organic pieces 23-26" Cobbles with ltl Drk Brn/Grey F sand, trc silt and M sand 26-32" Grey F-M SAND, some silt, trc sm grvl, dense, damp to dry (till)		

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

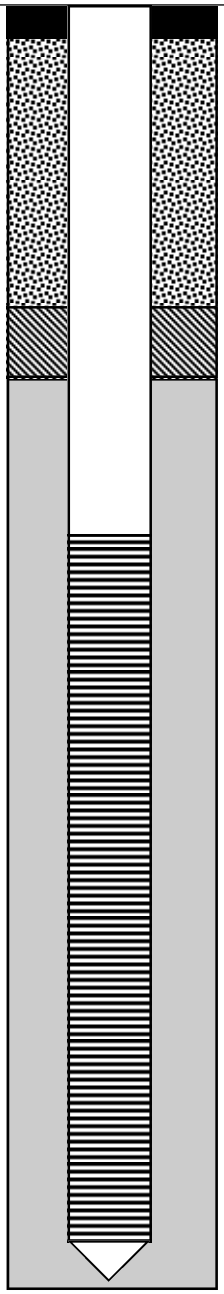
Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-1730 Boring Log ID: B-2/GEC-1	Date of Work: 6/6/11 Sheet: 1 of 1 Weather: 60-80°'s Sunny; Dry last 48hrs. Boring Location: Adjacent north wall of exterior courtyard at 130 John Street by former location of wall mounted transformer

Boring Contractor: New England Geotech
Drilling Method: Truck-mounted Geoprobe Rig
Foreman: Hayes
Sampling: Continuous in five foot intervals with dedicated acetate sleeves
GEC Engineer: Matt Wilson
Screening Equipment: MiniRae 10.6 (eV) PID

= Interval sampled for analysis KEY: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes
0	S-1	60/40"	0-5'	0.1 ppm Background= 0.0 ppm	Asphalt Sands, Gravel Cobbles Sand, fill material	**S-1:** 0-3" Asphlat 3-12" Brn F-C SAND and SM GRVL, some lg grvl, M dense, moist, no odor 12-13" Cobbles 13-40" Drk Brn F SAND, ltl C sand to lg grvl, M dense, ltl brick and coal fragments throughout, coal ,brick, ash, and white fibrous material at 35-40", damp, no odor	Denotes approximate depth of water table
5	S-2	60/0"	5-10'	NA Background= 0.0 ppm		**S-2:** No Recovery	Boring terminated at 15 ft BSG then casing driven to 18 ft BSG. A 2 in. PVC Monitoring well was installed to ~18 ft. BSG with 10 feet of screen (0.01" slots). The finished well was designated GEC-1. Coal, coal ash, brick observed in samples S-1. 6/8/11 - Measured DTW = 15.79 ft
10	S-3	60/22"	10-15'	1.5 ppm Background= 0.0 ppm	Silt Sand, Gravel Cobbles Silt	**S-3:** 0-2" Broken cobble chips and Fall in 2-4" Beige SILT, M dense, moist 4-8" Brn F-C SAND, some sm to lg grvl, loose dry 8-12" Broken cobble 12-13" Beige SILT, some cobbles, M dense, moist 13-19" Brn COBBLES, with ltl silt, moist to damp, dense 19-22" Brn SILT, ltl grvl, trc clay, M dense, wet	
15							Measured Depth = 17.30' From top of PVC

Well Construction



References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-1730 BORING LOG ID: B-3	DATE OF WORK: 6/6/11 SHEET: 1 of 1 WEATHER: 60-80°'s Sunny; Dry last 48hrs. BORING LOCATION: In NE corner of exterior courtyard at 130 John Street, adjacent fire hydrant

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Truck-mounted Geoprobe Rig
FOREMAN: Hayes
SAMPLING: Continuous in five foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 10.6 (eV) PID

= INTERVAL SAMPLED FOR ANALYSIS KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION	ADDITIONAL NOTES	WELL CONSTRUCTION
0	S-1	60/40"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Sand	**S-1:** 0-3" Asphlat 3-25" Brn F SAND, some M-C sand and sm to lg grvl, loose, dry, no odor 25-37" Lt Brn F SAND, ltl silt, trc M-C sand, loose, dry 37-40" Lt Brn F SAND, ltl silt and sm to lg grvl, loose, dry	Denotes approximate depth of water table First boring reached refusal at 10.1 ft BSG. A second boring was advanced 2ft to the north and was refused at 12.5 ft BSG.	
5	S-2	60/39"	5-10'	0.0 ppm Background= 0.0 ppm		**S-2:** 0-6" Fall in 6-28" Lt Brn F SAND, ltl silt and M-C sand, trc sm grvl and brick and coal pieces 28-39" Lt Brn F SAND, some silt, trc M-C sand, moist, no odor	No Monitoring well was installed. Coal and brick observed in sample S-2.	
10	S-3	30/32"	10-12.5'	NA Background= 0.0 ppm	Cobbles	**S-3: (second attempt at adjacent location)** 0-10" Fall in 10-14" Lt Brn F SAND, some silt, trc M-C sand, damp, no odor 14-21" Cobbles 21-24" Cobbles with some Lt Brn F SAND, some silt, trc M-C sand, damp, no odor 24-32" Cobbles with some M-C sand and weathered bedrock		
15								

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

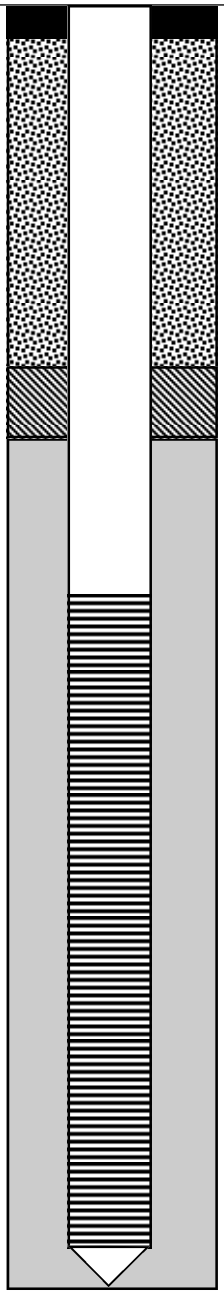
GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-1730 BORING LOG ID: B-4/GEC-2	DATE OF WORK: 6/6/11 SHEET: 1 of 1 WEATHER: 60-80°'s Sunny; Dry last 48hrs. BORING LOCATION: In SW corner of exterior courtyard at 130 John Street by main entrance to building

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Truck-mounted Geoprobe Rig
FOREMAN: Hayes
SAMPLING: Continuous in five foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 10.6 (eV) PID

= INTERVAL SAMPLED FOR ANALYSIS KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION	ADDITIONAL NOTES
0	S-1	60/33"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Sand, Gravel Sand, fill material	**S-1:** 0-2" Asphlat 2-14" Grey/Brn F-C SAND, some sm to lg grvl, trc silt, M dense, moist, no odor 14-18" Blk M-C SAND, with pieces of fly ash and gasified coal and coal, loose 18-33" Brk Brn F SAND, ltl M-C sand and sm to lg grvl, trc coal and brick pieces, M dense, moist, no odor	Denotes approximate depth of water table Boring terminated at 15 ft BSG then casing driven to 17.5 ft BSG. A 2 in. PVC Monitoring well was installed to ~17.5 ft. BSG with 10 feet of screen (0.01" slots). The finished well was designated GEC-2. Coal and brick observed in sample S-1. 6/8/11 - Measured DTW = 16.23 ft
5	S-2	60/54"	5-10'	0.0 ppm Background= 0.0 ppm	Sand	**S-2:** 0-7" Fall in 7-30" Drk Brn F SAND, trc silt, loose , rock piece at 25" 30-53" Brn F SAND, trc silt, loose, moist, no odor	
10	S-3	60/58"	10-15'	0.0 ppm Background= 0.0 ppm		**S-3:** 0-24" Fall in 24-49" Brn F SAND, trc silt, loose, damp, no odor 49-58" Beige F SAND, damp to wet, no odor	
15							Measured Depth = 17.88' From top of PVC

WELL CONSTRUCTION



REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

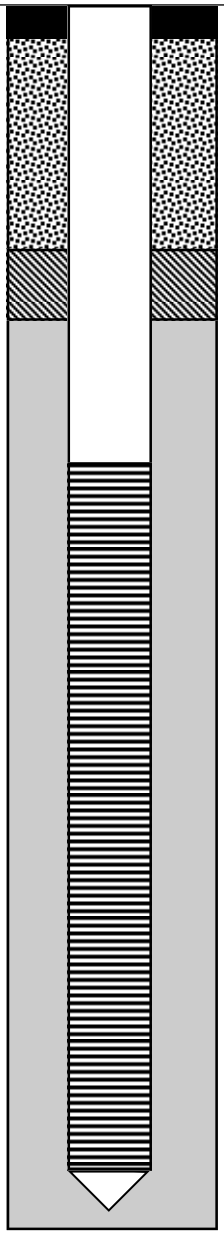
Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-1730 Boring Log ID: B-5/GEC-3	Date of Work: 6/6/11 Sheet: 1 of 1 Weather: 60-80°'s Sunny; Dry last 48hrs. Boring Location: In SE corner of exterior courtyard at 130 John Street by main gas meter

Boring Contractor:	New England Geotech	Drilling Method:	Truck-mounted Geoprobe Rig
Foreman:	Hayes	Sampling:	Continuous in five foot intervals with dedicated acetate sleeves
GEC Engineer:	Matt Wilson	Screening Equipment:	MiniRae 10.6 (eV) PID

= Interval sampled for analysis Key: Cement Seal: ■ Clean Backfill: ▒ Bentonite Seal: ▨ Sand Pack: ▯ Slotted Screen: ▤

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes
0	S-1	60/33"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Sand, Gravel Sand, fill material Gravel, Cobbles	**S-1:** 0-3" Asphlat 3-14" Grey/Brn F-C SAND, some sm to lg grvl, trc silt, M dense, moist, no odor 14-24" Brn F SAND, ltl silt and sm grvl, M dense, brick at 16", trc coal pieces, moist 24-33" Coarse LG GRVL to COBBLES, loose	Denotes approximate depth of water table Boring terminated at 15 ft BSG then casing driven to 17 ft BSG. A 2 in. PVC Monitoring well was installed to ~16.5 ft. BSG with 10 feet of screen (0.01" slots). The finished well was designated GEC-3. Coal and brick observed in sample S-1. 6/8/11 - Measured DTW = 14.30 ft
5	S-2	60/47"	5-10'	0.0 ppm Background= 0.0 ppm	Sand	**S-2:** 0-14" Coarse LG GRVL to COBBLES, loose, with some sands from above 14-47" Brn F SAND, trc silt, loose, dry	
10	S-3	60/48"	10-15'	0.0 ppm Background= 0.0 ppm		**S-3:** 0-11" Fall in 11-37" Brn F SAND, trc silt, loose, damp to wet at 22", no odor 37-47" Beige with Org banding Brn F SAND, trc silt, loose, wet 47-48" Grey/Drk Grey Brn F SAND, trc silt, loose, with sulfur odor (likely reducing conditions as odor resembled organic decay)	Measured Depth = 16.22' From top of PVC
15							

Well Construction



References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-1730 Boring Log ID: B-6	Date of Work: 6/6/11 Sheet: 1 of 1 Weather: 60-80°'s Sunny; Dry last 48hrs. Boring Location: Adjacent North wall of interior courtyard at 130 John Street below wall mounted transformer.

Boring Contractor: New England Geotech
Drilling Method: Jackhammer driven manual Geoprobe
Foreman: Hayes
Sampling: Continuous in two foot intervals with dedicated acetate sleeves
GEC Engineer: Matt Wilson
Screening Equipment: MiniRae 10.6 (eV) PID

= Interval sampled for analysis KEY: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Pen./Rec.	Depth	Sample Screening	Strata Change	Sample Description	Additional Notes	Well Construction
0	S-1	24/6"	0-2'	0.0 ppm Background= 0.0 ppm	Sandy Fill	**S-1:** 0-6" Brn F SAND, trc silt and M-C sand, brick coal and rusted metal pieces, loose dry	Denotes approximate depth of water table	
2	S-2	24/12"	2-4'	0.0 ppm Background= 0.0 ppm		**S-2:** 0-3" Brn F SAND, trc silt and M-C sand, brick coal and rusted metal pieces, loose dry 3-7" Lt Brn F SAND, trc M-C sand, loose dry 7-12" Brn F-M SAND, ltl C sand, trc sm grvl, loose, dry, coal pieces	Boring reached refusal at 6.5 ft BSG. Groundwater not encountered.	
4	S-3	24/20"	4-6'	0.0 ppm Background= 0.0 ppm		**S-3:** 0-5" Fall in 5-20" Brn F-M SAND, ltl C sand, trc sm grvl, loose, moist, coal pieces	No Monitoring well was installed.	
6	S-4	6/6"	6-6.5'	NA Background= 0.0 ppm		**S-4:** 0-6" Fall in - coal pieces, coal ash	Coal, brick, coal ash observed in length of boring.	
8								
10								
12								
1								
1								

References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-1730 Boring Log ID: B-6A	Date of Work: 9/13/11 Sheet: 1 of 1 Weather: 75-80°'s Sunny; Dry last 48hrs. Boring Location: Adjacent North wall of interior courtyard at 130 John Street 5 ft west of B-6.

Boring Contractor: GEC

Foreman:

GEC Engineer: Matt Wilson

Drilling Method: Manual hammer driven Geoprobe

Sampling: Continuous in two foot intervals with dedicated acetate sleeves

Screening Equipment: None

= Interval sampled for analysis

KEY: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes	Well Construction
0	S-1	24/10"	0-2'	None Conducted	Sandy Fill	**S-1:** 0-3" Drk Brn F-C SAND, crushed coal and fly ash, loose 3-6" Brn F SAND, some M sand, ltl silt and C sand loose, dry 6-7" Drk Brn F-C SAND, crushed coal and fly ash, loose 7-10" Brn F SAND, some M sand, ltl silt and C sand, coal and brick pieces, loose, dry	Boring reached refusal at 2 ft BSG. Groundwater not encountered. No Monitoring well was installed. Coal, brick, coal and fly ash observed in sample.	
2								
4								
6								
8								
10								
12								

References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-1730 Boring Log ID: B-6B	Date of Work: 9/13/11 Sheet: 1 of 1 Weather: 75-80°'s Sunny; Dry last 48hrs. Boring Location: Near North wall of interior courtyard at 130 John Street 5 ft south of B-6.

Boring Contractor: GEC

Foreman:

GEC Engineer: Matt Wilson

Drilling Method: Manual hammer driven Geoprobe

Sampling: Continuous in two foot intervals with dedicated acetate sleeves

Screening Equipment: None

= Interval sampled for analysis

KEY: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes	Well Construction
0	S-1	48/22"	0-4'	None Conducted	Sandy Fill	**S-1:** 0-3" Drk Brn F-C SAND, crushed coal and fly ash, loose 3-5.5" Brn F SAND, some M sand, ltl silt and C sand loose, dry 5.5-7" Drk Brn F-C SAND, crushed coal and fly ash, loose 7-11" Lt Brn F SAND, ltl silt and M-C sand, ltl coal, coal ash and brick pieces, loose, dry 11-19" Lt Brn F SAND, ltl silt and M-C sand, trc coal and brick pieces 19-21" Brick 21-22" Lt Brn F SAND, ltl silt and M-C sand, trc coal and brick pieces	Boring terminated at 6 ft BSG. Groundwater not encountered. No Monitoring well was installed. Coal, brick, coal ash observed in boring.	
4	S-2	24/3	4-6'			**S-2: poor recovery** 0-3" Brn F-C SAND, ltl silt and small to lg grvl, trc coal and brick (may all be fall in as rock at end of sample)		
6								
8								
10								
12								

References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-1730 Boring Log ID: B-6C	Date of Work: 9/13/11 Sheet: 1 of 1 Weather: 75-80°'s Sunny; Dry last 48hrs. Boring Location: Adjacent North wall of interior courtyard at 130 John Street 5 ft east of B-6.

Boring Contractor: GEC
Foreman:
GEC Engineer: Matt Wilson
Drilling Method: Manual hammer driven Geoprobe
Sampling: Continuous in two foot intervals with dedicated acetate sleeves
Screening Equipment: None

= Interval sampled for analysis KEY: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes	Well Construction
0	S-1	48/12"	0-4'	None Conducted	Sandy Fill	**S-1:** 0-3.5" Drk Brn F-C SAND, crushed coal and fly ash, loose 3.5-10" Brn F SAND, ltl silt and M-C sand, trc coal fly ash and brick 10-12" Brn F-C SAND, ltl silt and small to lg grvl, trc coal and brick	Boring terminated at 6 ft BSG. Groundwater not encountered. No Monitoring well was installed. Coal, brick, fly ash observed in boring.	
4	S-2	24/10	4-6'			**S-2:** 0-1" Fall in 1-10" Lt Brn F SAND, ltl silt and M-C sand, trc coal and brick		
6								
8								
10								
12								

References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-1730 BORING LOG ID: B-7/GEC-4	DATE OF WORK: 6/6/11 SHEET: 1 of 1 WEATHER: 60-80°'s Sunny; Dry last 48hrs. BORING LOCATION: Western side of interior courtyard at 130 John Street adjacent old brick lined dry well/catch basin.

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Jackhammer driven manual Geoprobe
FOREMAN: Hayes
SAMPLING: Continuous in two foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 10.6 (eV) PID

= INTERVAL SAMPLED FOR ANALYSIS KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	PEN./REC.	DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION
0	S-1	24/10"	0-2'	0.0 ppm Background= 0.0 ppm	Sandy Fill	**S-1:** 0-10" Lt Brn F SAND, ltl M to sm grvl, trc brick and coal fragments, loose, dry
2	S-2	24/18"	2-4'	0.0 ppm Background= 0.0 ppm		**S-2:** 0-18" Lt Brn F SAND, ltl M to sm grvl, trc brick and coal fragments, loose, dry
4	S-3	24/20"	4-6'	0.0 ppm Background= 0.0 ppm		**S-3:** 0-7" Fall in 7-15" Lt Brn F SAND, ltl M to sm grvl, trc brick and coal fragments, loose, moist 15-16" Drk Brn SILT, loose, moist 16-20" Lt Brn F SAND, ltl M to sm grvl, trc brick and coal fragments, fly ash, loose, moist
6	S-4	24/22"	6-8'	0.0 ppm Background= 0.0 ppm	Sand	**S-4:** 0-5" Fall in 5-22" Brn F SAND, ltl silt, trc sm grvl, loose, moist, no odor
8	S-5	24/23"	8-10'	0.0 ppm Background= 0.0 ppm		**S-5:** 0-3" Fall in 3-23" Brn F SAND, ltl silt, trc sm grvl, loose, damp at 22", no odor
10	S-6	24/23"	10-12'	0.0 ppm Background= 0.0 ppm		**S-6:** 0-5" Fall in 5-23" Beige F SAND, ltl silt, trc sm grvl, loose, wet, no odor
12						
1						
1						

ADDITIONAL NOTES

Denotes approximate depth of water table

Boring terminated at 12 ft BSG.

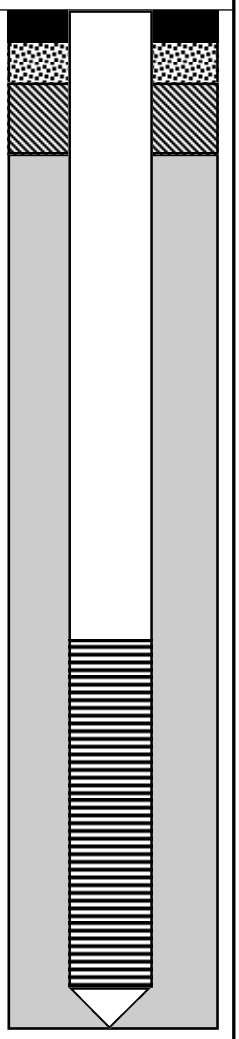
Initially, no Monitoring well was installed as well material not available on 6/6/11.

MDW of GEC returned on 6/8/11 to install a 1" PVC monitoring wells with 5 ft of screen (0.01" slots) to approximately 14 ft BSG in a boring advanced immediately adjacent the original location.

Coal, brick, fly ash observed in samples S-1—S-3.

6/15/11-Measured DTW = 10.07 ft

WELL CONSTRUCTION



Measured Depth = 13.78' From top of PVC

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-173A Boring Log ID: B-8	Date of Work: 9/1/11 Sheet: 1 of 1 Weather: 65-75°'s Partly to Mostly Sunny; Dry last 48hrs. Boring Location: In the eastern courtyard of 130 John Street adjacent GEC-2 to the west of the storm water system.

Boring Contractor: New England Geotech
Drilling Method: Track-mounted Geoprobe Rig
Foreman: Steve Perry
Sampling: Continuous in three foot intervals with dedicated acetate sleeves
GEC Engineer: Matt Wilson
Screening Equipment: MiniRae 11.7 (eV) PID

= Interval(s) sampled for analysis
Key: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes	Well Construction
0	S-1	60/29"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Sand, Gravel Sand, fill material	**S-1:** 0-3" Asphalt 3-7" Grey F SAND to SMALL GRAVEL, trc silt and lg grvl, loose 7-29" Brn F SAND, some silt, ltl M-C sand and small to lg grvl, loose, dry, coal, coal ash, brick throughout	Boring terminated at 15 ft BSG per the SOW. No monitoring well was installed. Coal, gasified coal, coal ash, and brick observed in samples S-1.	
5	S-2	60/~40"	5-10'	0.0 ppm Background= 0.0 ppm	Sand	**S-2: Soils not recovered in sleeve, not able to measure recovery accurately** Top 1/3 recovery: Fall in or same as above (Brn F SAND, some silt, ltl M-C sand and small to lg grvl, loose, dry, coal, coal ash, brick throughout) Middle 1/3 recovery Brn F SAND, ltl silt, trc small to lg grvl Bottom 1/3 Lt Brn F SAND, some silt		
10	S-3	60/48"	10-15'	0.0 ppm Background= 0.0 ppm		**S-3:** 0-4" Fall in 4-42" Beige/Brn F SAND, ltl silt, wet, no odor 42-48" Beige F sand, trc silt, wet, no odor		
15								

References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-173A	DATE OF WORK: 9/1/11 SHEET: 1 of 1
	BORING LOG ID: B-9	WEATHER: 65-75°'s Partly to Mostly Sunny; Dry last 48hrs.
		BORING LOCATION: In the eastern courtyard of 130 John Street adjacent GEC-1 near the middle of the northern wall.

BORING CONTRACTOR: New England Geotech

DRILLING METHOD: Track-mounted Geoprobe Rig

FOREMAN: Steve Perry

SAMPLING: Continuous in three foot intervals with dedicated acetate sleeves

GEC ENGINEER: Matt Wilson

SCREENING EQUIPMENT: MiniRae 11.7 (eV) PID

= INTERVAL(S) SAMPLED FOR ANALYSIS

KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION	ADDITIONAL NOTES	WELL CONSTRUCTION
0	S-1	60/36"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt	**S-1:** 0-3" Asphalt 3-11" Brn/Beige F-C SAND, some small to lg grvl, trc silt, trc coal pieces, loose, moist 11-14" LG GRAVEL, loose 14-36" Brn F SAND, ltl silt and M-C sand, trc small to lg grvl, coal and coal ash throughout in small amounts, brick	Boring reached refusal at 7 ft BSG. Retry boring 8 times in an attempt to reach depth, but refusals met between 3 ft and 7 ft BSG. No monitoring well was installed. Coal, gasified coal, coal ash, and brick observed in samples S-1.	
					Sand, Gravel			
					Sand, fill material			
5	S-2	24/0"	5-7'			**S-2:** No recovery, shallow refusals		
10								
15								

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-173A BORING LOG ID: B-10	DATE OF WORK: 9/1/11 SHEET: 1 of 1 WEATHER: 65-75°'s Partly to Mostly Sunny; Dry last 48hrs. BORING LOCATION: In the eastern courtyard of 130 John Street adjacent B-3 to the west of the fire hydrant.

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Track-mounted Geoprobe Rig
FOREMAN: Steve Perry
SAMPLING: Continuous in three foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 11.7 (eV) PID

= INTERVAL(S) SAMPLED FOR ANALYSIS

KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION
0	S-1	60/38"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Sand, Gravel Cobbles Sand, fill material	**S-1:** 0-2" Asphalt 2-5" Grey F SAND to SMALL GRVL, loose 5-8" Brn F SAND to SMALL GRVL, ltl silt, coal and gasified coal pieces 8-9" LG COBBLES 9-38" Brn F SAND, some silt, ltl M-C sand, trc small to lg grvl, M dense, moist, coal, gasified coal, trc brick throughout
5	S-2	60/36"	5-10'	0.0 ppm Background= 0.0 ppm	Sand, trc coal	**S-2:** 0-6" Fall in 6-22" Brn F SAND, some silt, ltl M-C sand, trc small to lg grvl, M dense, moist, coal, gasified coal, trc brick throughout 22-29" Beige F SAND, some silt, trc M sand, very trc coal pieces, moist 29-36" Brn F SAND, some silt, ltl M-C sand, trc small to lg grvl, coal pieces, damp no odor
10	S-3	36/19"	10-13'	NA Background= 0.0 ppm	Sand	**S-3:** 0-9" Fall in 9-19" Brn F to M SAND, some silt, ltl C sand to small grvl, loose, wet
15						

ADDITIONAL NOTES

Denotes approximate depth of water table

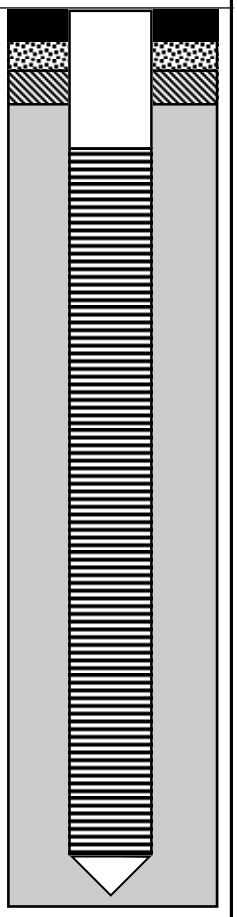
Boring reached refusal at 13 ft BSG.

A 2" PVC monitoring well was installed to ~12 ft BSG with 10ft of slotted screen (0.01" slots) The finished well was designated GEC-5.

Coal, gasified coal, and brick observed in samples S-1 and S-2.

9/2/11 Measured DTW = 11.18 ft

WELL CONSTRUCTION



Measured Depth = 11.80' From top of PVC

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

Goldman Environmental Consultants, Inc. 60 Brooks Drive Braintree, MA	Project: Winn - Boott Mills 911-173A Boring Log ID: B-11	Date of Work: 9/1/11 Sheet: 1 of 1 Weather: 65-75°'s Partly to Mostly Sunny; Dry last 48hrs. Boring Location: In eastern area of exterior courtyard at 130 John Street east of GEC-3.

Boring Contractor: New England Geotech
Drilling Method: Track-mounted Geoprobe Rig
Foreman: Steve Perry
Sampling: Continuous in three foot intervals with dedicated acetate sleeves
GEC Engineer: Matt Wilson
Screening Equipment: MiniRae 11.7 (eV) PID

= Interval(s) sampled for analysis

Key: Cement Seal: Clean Backfill: Bentonite Seal: Sand Pack: Slotted Screen:

Depth (ft)	Sample No.	Sample Pen./Rec.	Sample Depth	Sample Screening	Strata Change	Sample Description	Additional Notes	Well Construction
0	S-1	36/32"	0-3'	0.0 ppm Background= 0.0 ppm	Asphalt Sand, Gravel Sand, fill material	**S-1:** 0-5" Asphlat 5-8" Grey F SAND to SMALL GRAVEL, trc silt and lg grvl, loose 8-13" Brn SMALL to LG GRVL, some F-M sand, ltl silt, loose, moist 13-15" Lt Brn F-M SAND, some C sand to small grvl, loose 15-19.5 Brn F SAND, ltl silt and M-C sand, trc sm grvl, trc coal and brick pieces M dense 19.5-21.5 Drk Brn F SAND, ltl silt and M-C sand, trc sm grvl, trc coal, brick, and fly ash pieces M dense 21.5-27" Blk/Grey F-C SAND, ltl small grvl, a lot of coal, coal ash, fly ash, loose 27-32" Brn/olive F SAND, some silt, trc M-C sand and small to lg grvl M dense **S-2:** 0-4" Light Tan F SAND, some M-C SAND, trc sm grvl, brick pieces, very loose (fall in) 4-35" Light Brn F SAND, some silt, M dense dry	Boring terminated at 6.5 ft BSG per sampling SOW. Water table not encountered. No monitoring well was installed. Coal, fly ash and brick observed in sample S-1.	
3	S-2	42/35"	3-6.5'	0.0 ppm Background= 0.0 ppm	Sand			
6								

References: 1 - *Field Guide for Soil and Stratigraphic Analysis*, v.2, 2001-2006. Midwest Geosciences Group Press.

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-173A BORING LOG ID: B-12	DATE OF WORK: 9/1/11 SHEET: 1 of 1 WEATHER: 65-75°'s Partly to Mostly Sunny; Dry last 48hrs. BORING LOCATION: In the eastern courtyard of 130 John Street near western wall to the east of façade column.

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Track-mounted Geoprobe Rig
FOREMAN: Steve Perry
SAMPLING: Continuous in three foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 11.7 (eV) PID

= INTERVAL(S) SAMPLED FOR ANALYSIS

KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION
0	S-1	60/34"	0-5'	0.0 ppm Background= 0.0 ppm	Asphalt Sand, Gravel Sand, fill material	**S-1:** 0-4" Asphalt 4-7" Grey F SAND to SMALL GRAVEL, trc silt and lg grvl, loose 7-22" Brn F SAND, some silt, ltl M-C sand and small to lg grvl, lg pieces of fly ash at 14" & 19", trc brick, coal ash at 9", M dense 22-31" Brn/Blk F-C COAL, some F-C sand, coal ash, fly ash, loose dry 31-34" Lt Brn F SAND, some F-C coal, coal ash, fly ash, and brick
5	S-2	60/48"	5-10'	0.0 ppm Background= 0.0 ppm	Sand, trc coal	**S-2:** 0-6" Fall in (same as 22-31" above) 6-48" Beige Brn F SAND, ltl silt, trc M-C sand to lg grvl, trc coal pieces throughout, loose, dry
10	S-3	60/31"	10-13'	0.0 Background= 0.0 ppm	Sand	**S-3:** 0-7" Fall in 7-18" Beige/Brn F SAND, some silt, ltl M sand to sm grvl, wet, no odor 18-31" Beige/Grey F SAND, some silt, M dense, wet, no odor
15						

ADDITIONAL NOTES

Denotes approximate depth of water table

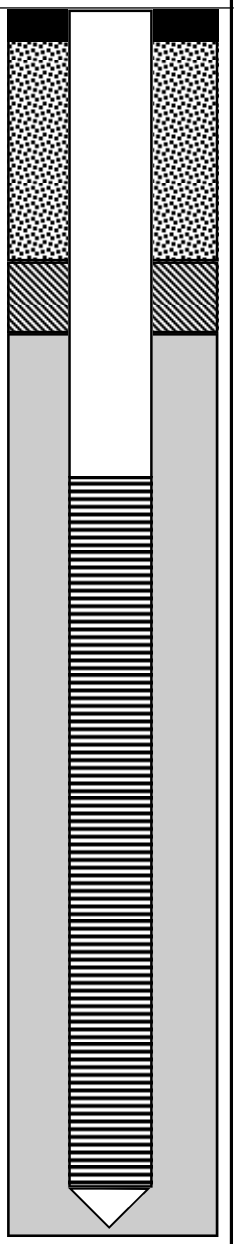
Boring was terminated at 13 ft BSG and casing was driven to 17 ft BSG.

A 2" PVC monitoring well was installed to ~17 ft BSG with 10ft of slotted screen (0.01" slots) The finished well was designated GEC-6.

Coal, gasified coal, and brick observed in samples S-1 and S-2.

9/2/11
Measured
DTW = 11.55 ft

WELL CONSTRUCTION



Measured
Depth = 16.50'
From top of PVC

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

GOLDMAN ENVIRONMENTAL CONSULTANTS, INC. 60 BROOKS DRIVE BRAINTREE, MA	PROJECT: Winn - Boott Mills 911-173A BORING LOG ID: B-13	DATE OF WORK: 9/1/11 SHEET: 1 of 1 WEATHER: 65-75°'s Partly to Mostly Sunny; Dry last 48hrs. BORING LOCATION: In grass area adjacent the northeast side of 130 John Street 9ft from the building. River abuts to the NE.

BORING CONTRACTOR: New England Geotech
DRILLING METHOD: Track-mounted Geoprobe Rig
FOREMAN: Steve Perry
SAMPLING: Continuous in three foot intervals with dedicated acetate sleeves
GEC ENGINEER: Matt Wilson
SCREENING EQUIPMENT: MiniRae 11.7 (eV) PID

= INTERVAL(S) SAMPLED FOR ANALYSIS
KEY: CEMENT SEAL: CLEAN BACKFILL: BENTONITE SEAL: SAND PACK: SLOTTED SCREEN:

DEPTH (FT)	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE SCREENING	STRATA CHANGE	SAMPLE DESCRIPTION
0	S-1	60/39"	0-5'	0.0 ppm Background= 0.0 ppm	Silt Cobbles Sand, fill material Coal	**S-1:** 0-8" Drk Brn SILT, some F-C sand, coal and gasified coal in top 3 inches, moist, loose 8-10" LG COBBLES 10-21" Brn F-C SAND, some silt and M-C sand, trc small to lg grvl, coal and brick fragments, lg brick pieces at 18-21", loose 21-33" Blk/Grey F-C SAND, ltl small grvl, a lot of coal, coal ash, fly ash, loose 33-37" Blk COAL and GASIFIED COAL pieces, ltl F-M sand, disk of tar-like material or possibly soils stuck together with a tar-like odor at 37" 37-39" Bright Red, yellow and orange material resembling F sand over Brn F sand.
5	S-2	60/30"	5-10'	0.0 ppm Background= 0.0 ppm	Sand Sand, fill material	**S-2:** 0-7" Fall in (same as 21-33" above) 7-12" Lt tan F SAND, loose 12-19" Beige F SAND, ltl M-C sand, trc silt and small to lg grvl, glass, coal, brick pieces, M dense, moist, no odor 19-30" Beige F SAND, ltl M-C sand, trc silt and small to lg grvl, M dense, wet at 24"
10	S-3	48/27"	10-14'	NA Background= 0.0 ppm	Sands, Gravel	**S-3:** 0-3" Fall in (same as 21-33" above) 3-5" Brn F SAND, some small to lg grvl, trc silt, wet 5-19" Brn F SAND, trc small to lg grvl, soupy wet 19-24" Brn F SAND, some small to lg grvl, trc silt, wet, trc coal pieces 24-27" Brn F-C SAND, some small to lg grvl, loose, wet
15						

ADDITIONAL NOTES

Denotes approximate depth of water table

Boring reached refusal at 14 ft BSG.

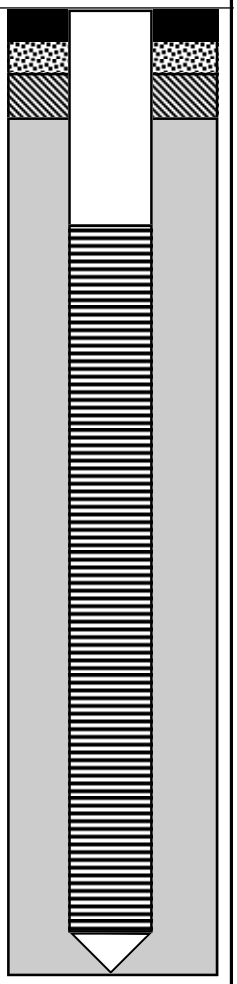
A 2" PVC monitoring well was installed to ~13.5ft BSG with 10ft of slotted screen (0.01" slots) The finished well was designated GEC-7.

Coal, gasified coal, glass, and brick observed in samples S-1 and S-2. Trace amounts of coal in S-3.

Tar-like material observed at bottom of S-1 over brightly colored sand-like material.

9/2/11 Measured DTW = 9.15 ft

WELL CONSTRUCTION



Measured Depth = 13.05' From top of PVC

REFERENCES: 1 - *FIELD GUIDE FOR SOIL AND STRATIGRAPHIC ANALYSIS*, v.2, 2001-2006. MIDWEST GEOSCIENCES GROUP PRESS.

APPENDIX C

History of Compliance/List of Reports Completed to Date

List of Reports Completed to Date:

1) Release Abatement Measure Plan, December 8, 2006 (RTN 3-26688), completed by Environmental Compliance Services, Inc. (ECS), on behalf of Scott Lawson Group, Ltd.

2) Release Abatement Measure Completion Report, January 29, 2008 (RTN 3-26688), completed by ECS on behalf of Boott Mill Development Corporation

3) July 17, 2008, MADEP issued a Notice of Noncompliance (NON) to "Boot Cotton Mill Development Corporation" for not submitting a Response Action Outcome (RAO) Statement or Tier Classification Submittal within one year of release notification.

APPENDIX D

Public Notification Letters and Copy of Newspaper Public Notice

Goldman
Environmental
Consultants, Inc.

60 Brooks Drive
Braintree, MA 02184

781-356-9140
Fax 781-356-9147
www.goldmanenvironmental.com

March 22, 2012

Mayor Patrick Murphy
City of Lowell Mayor's Office
Lowell City Hall
375 Merrimack Street
Lowell, Massachusetts 01852

RE: Release Notification
130 Foot of John Street
Lowell, Massachusetts
RTNs 3-30667

Dear Mayor Patrick Murphy,

On behalf of Boott Properties, LLC, the current owner of the above-referenced property, Goldman Environmental Consultants, Inc. (GEC) is notifying you, in accordance with 310 CMR 40.1403(3)(h) of the submittal of a Release Notification Form to the Massachusetts Department of Environmental Protection (MADEP) pursuant to 310 CMR40.0371. GEC acknowledges that this notification is late, pursuant to 310 CMR 40.1403(3)(h)2.

Attached, is a copy of the Release Notification Form (RNF), BWSC Form 103 submitted to the MADEP on February 22, 2012. In accordance with 310 CMR 40.1403(9) and upon Tire Classification under 310 CMR 40.1404 local officials have the right to request additional Public Involvement Activities.

Should you have any questions regarding this matter, please do not hesitate to contact GEC at (781) 356-9140.

Respectfully submitted,
Goldman Environmental Consultants, Inc.

Lauren McKinlay
Project Manager/Geologist

Enclosure

cc: NERO

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Braintree, MA 02184

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March 22, 2012

Mr. Frank Singleton, Director
City of Lowell Board of Health
341 Pine Street
Lowell, Massachusetts 01851

RE: Release Notification
130 Foot of John Street
Lowell, Massachusetts
RTNs 3-30667

Dear Mr. Singleton,

On behalf of Boott Properties, LLC, the current owner of the above-referenced property, Goldman Environmental Consultants, Inc. (GEC) is notifying you, in accordance with 310 CMR 40.1403(3)(h) of the submittal of a Release Notification Form to the Massachusetts Department of Environmental Protection (MADEP) pursuant to 310 CMR40.0371. GEC acknowledges that this notification is late, pursuant to 310 CMR 40.1403(3)(h)2.

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Respectfully submitted,
Goldman Environmental Consultants, Inc.

Lauren McKinlay
Project Manager/Geologist

Enclosure

cc: NERO

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April 11, 2012

Mayor Patrick Murphy
City of Lowell Mayor's Office
Lowell City Hall
375 Merrimack Street
Lowell, Massachusetts 01852

RE: Phase I Initial Site Investigation Report
Phase II Scope of Work
Tier II Classification and Legal Notice
130 Foot of John Street
Lowell, Massachusetts
RTNs 3-26688 & 3-30667

Dear Mayor Patrick Murphy,

On behalf of Boott Properties, LLC, the current owner of the above-referenced property, Goldman Environmental Consultants, Inc. (GEC) is notifying you, in accordance with 310 CMR 40.1403(3)(e) and 310 CMR 40.1403(6)(b), of the availability of a Phase I Initial Site Investigation Report, Phase II Scope of Work, Tier II Classification. The Phase I Report documents investigations conducted in response to the discovery of a 120-day reporting obligation condition at the above-mentioned property. The Phase II Scope of Work is contained in the Phase I Report, and outlines planned future investigations. The Tier II Classification is also contained within the Phase I Report, and was conducted in accordance with CMR 40.0510 and CMR 40.1500.

The Phase I Initial Site Investigation, Phase II Scope of Work and Tier II Classification may be obtained at the Northeast Regional Office of the Massachusetts Department of Environmental Protection (MADEP) at 205 B Lowell Street in Wilmington, Massachusetts.

The Phase I Report provides documentation of Tier Classification. The site associated has been classified as a Tier II disposal site. A Legal Notice, regarding the Tier Classification, will be published in the *Lowell Sun* on April 17, 2012. A copy of the Legal Notice is provided herein. In accordance with 310 CMR 40.1403(6)(b)(1), a copy of the disposal site map included in the Phase I Report is also provided herein.

Should you have any questions regarding this matter, please do not hesitate to contact GEC at (781) 356-9140.

Respectfully submitted,
Goldman Environmental Consultants, Inc.

Brian T. Butler, LSP #5736
VP, Waste Site Program

cc: NERO

SUMMARY OF FINDINGS AND STATEMENT OF CONCLUSIONS

Based on the investigation documented herein, GEC finds and concludes the following:

1. The subject property, addressed as 130 Foot of John Street in Lowell, Massachusetts, is currently owned by Boott Properties, LLC and contains three adjoining buildings (Building 3, Building 4 and Building 5) utilized as residential, commercial and vacant, "raw" mill space, and is located in an area zoned "Down Town Mixed Use". Historical information indicates that, the property was developed prior to 1892. The property was occupied by the Boott Mills Cotton Goods manufacturer from 1919 to 1955. Since 1955, industrial and commercial activities conducted at the property have included, but were not limited to, wooden box manufacturer, clothing manufacturer, cleaner, textiles, restaurant, dress company, plastic container manufacturers, machine and engineering shop, silk screening companies, electronic assembly company, welding shop, vinyl and cotton lamination companies, bearings manufacturer, various commercial uses and residential.

2. To the extent that the disposal site boundaries have currently been defined, the disposal site boundary extends slightly beyond both courtyard areas.

3. In November 2006, a release of PCBs was discovered in the exterior (eastern) courtyard by TRC of Lowell, MA. TRC was retained by general contractor Consigli Construction, who observed petroleum odor when advancing test pits in the exterior courtyard. When the contamination was discovered, the property was owned by Boott Cotton Mills Development, LLC, a party that was unrelated to the current owner/filer. ECS, on behalf of Scott Lawson Group, Ltd. submitted a RAM Plan to the MADEP on December 8, 2006, providing details on the planned excavation of PCB-contaminated soils. The presence of PCBs in soils at a level (22.73 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg) was reported to the MADEP as a 120-day reportable condition on March 20, 2007. The PCB release condition was assigned RTN 3-26688.

4. Soil excavation was conducted for RTN 3-26688 in March 2007. Following excavation activities nine confirmatory soil samples were collected. On April 30, 2007, the excavation was backfilled with clean soils and gravel. ECS submitted a RAM Completion Report on January 29, 2008, on behalf of Boott Mill Development Corporation. At the time the RAM Completion Report was submitted, the property owner was Boott Cotton Mills Development, LLC. Presumably, Boott Mill Development Corporation and Boot Cotton Mills Development, LLC were affiliates. A stormwater management system was installed in the excavated area subsequent to the RAM.

5. On July 17, 2008, MADEP issued a NON to "Boot Cotton Mill Development Corporation" for not submitting a RAO Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

6. In February 2010 GEC was contracted by an entity interested in purchasing the property to conduct a due diligence Phase I ESA for the property. The Phase I ESA, dated February 25, 2010, identified: (1) the active disposal site associated with RTN 3-26688 and the known release of PCBs, petroleum hydrocarbons and suspected release of metals to soil in the vicinity of the exterior (eastern) courtyard; and (2) a potential release of OHM from an existing wall-mounted transformer and a former maintenance shop located within the enclosed (western) courtyard.

7. In June and September, 2011, due diligence subsurface investigations were conducted by GEC to determine the extent and magnitude of contamination across the disposal site. Subsurface investigations included the installation of several soil borings and monitoring wells, groundwater gauging and sampling activities and the collection of soil vapor samples.

8. The recent discovery of contaminants not reported to MADEP under RTN 3-26688 was reported by GEC to Boott Mill Developer LLC, the party interested in purchasing the property, in December, 2011. The release triggered a 120-day reporting obligation pursuant to 310 CMR 40.0315(1) for lead concentrations in soil; however, since Boott Mill Developer LLC was not the owner they were under no obligation to notify. GEC prepared a Phase II Limited Subsurface Investigation Report, dated December 8, 2011, summarizing the latest subsurface investigations along with conclusion and recommendations. The report was ultimately provided to Boott Properties, LLC (the current owner) and they were notified of their reporting obligations. Boott Properties, LLC then retained GEC to report the release to the MADEP. The MADEP was notified of the condition on February 22, 2012, through Release Notification Form BWSC-103 which was submitted electronically through eDEP. This release incident was assigned RTN 3-30667. This RTN is being linked to RTN 3-26688 via this Phase I submittal.

9. GEC's subsurface investigation within the exterior courtyard found evidence of residual PCB contamination above the applicable MADEP Method 1 S-1 Standards (2 mg/kg), with one soil sample containing PCB (124 mg/kg) at a level exceeding its UCL (100 mg/kg). Elevated levels of PCB contamination persists in both shallow soils and in soils at depths to 10-15 feet below ground surface adjacent to the north central portion of the courtyard (south wall of the renovated portion of Mill building 5). Additionally, shallow soils in the southwest corner and eastern portion of the courtyard are impacted with elevated concentrations of PCBs. Based on recent subsurface investigations, GEC concludes that the remedial activities conducted by ECS as described in their January 2008 report did not completely address the release of PCBs, reportedly from a wall-mounted transformer formerly located on the northern side of the exterior courtyard. The levels of residual PCB contamination is higher than reported in the RAM Completion Report, and the vertical and horizontal extent of contamination is larger than reported in the RAM Completion Report. The full extent of PCB contamination in soils at the disposal site is not known at this time, including whether the contamination extends beneath Mill buildings 3 or 5.

10. No PCBs were detected in any of the groundwater samples collected for dissolved PCB analysis. In addition, groundwater samples were collected from GEC-1, GEC-2, GEC-4, GEC-6 and GEC-7 for analysis of VOCs and from GEC-2 and GEC-6 for analysis of VPH. Little or no VPH or VOCs were detected in the groundwater samples\. Based on these results, PCBs, VOCs, and VPH in groundwater is not a significant issue. Insufficient VOCs and VPH are present in groundwater to result in the co-solution of PCBs in groundwater.

11. For the exterior courtyard, concentrations of lead in shallow soils (0-3 feet) collected from borings B-10, B-11, and B-12 exceed the MADEP's background concentrations for soils associated with fill containing coal ash or wood ash. The levels of lead also exceed the Method 1 S-1 soil standards.

12. For monitoring well GEC-1, located in the exterior courtyard, total lead was detected (71 ug/l) above its Method 1 GW-3 standard (10 ug/l) in the sample collected on September 7, 2011. Yet, no dissolved lead was detected in the filtered sample collected at the same time from GEC-1, thereby suggesting that lead is adsorbed to soil particles and is not mobilized within the water column.

13. GEC's investigation in the exterior courtyard also found elevated levels of PAH constituents benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene and dibenzo[a,h]anthracene above their MADEP-published background concentrations and Method 1 S-1 soil standards. These exceedences were detected in samples obtained from soil recoveries that contained fly ash, coal, gasified coal and / or coal ash. The presence of PAHs is due at least in part to the presence of coal ash in the soils, which is a background condition; however, the transformer oil release may have contributed to the presence of PAHs in soils.

14. Chromium was detected in one soil sample and nickel in two soil samples at levels greater than their Method 1 S-1 standards and slightly greater than background concentrations. The presence of chromium and nickel may be attributable to the observed presence of coal ash, fly ash and coal in the fill, and/or historic industrial operations at the subject property.

15. GEC's investigation within the enclosed courtyard found no evidence of PCB contamination, though there were relatively low levels of PAHs and metals

detected in at least one sample. Lead was detected at higher concentrations, and it was detected in all soil samples submitted for analysis. Again, GEC documented the presence of brick, coal, and coal ash in soils. Except for lead, the metal and PAH concentrations may be attributed to a background condition and not a separate release. Historic industrial operations may have also contributed to the presence of some of the PAHs and metals.

16. Based on current conditions, the contaminated soils are covered by asphalt and concrete pavement and building foundations. There is no mechanism for human exposure to the soil contamination under current conditions, except perhaps during periods of utility repair work. Exposure to the soils may occur in the future, if the pavement or building foundation is removed or during future construction activities.

17. Soil vapor points were installed through the floor of Mill Building 3 and near Mill Building 5, in the areas with the highest levels of PCB-contaminated soils. Soil vapor samples were collected and analyzed for PCBs. No PCBs were detected and the RDLs were low enough to determine that soil vapor intrusion to indoor air is unlikely to be a significant migration pathway for this disposal site.

18. Based on the available groundwater data, there is no significant dissolved-phase contamination associated with the disposal site. No plume of dissolved-phase groundwater contamination is emanating from the disposal site. No non-aqueous phase liquid or free phase product has been encountered at the disposal site.

19. Based on a review of the available data, additional assessment is needed to fully define the magnitude and extent of PCBs and lead contamination in soils. As presented in the Phase II SOW, additional soil and groundwater samples will be collected throughout the disposal site during Phase II investigations to delineate magnitude and extent of contamination and to characterize potential migration and exposure pathways.

20. The Merrimack River abuts the property and generally flows from northwest to southeast in the vicinity of the property. Based on an evaluation of the available groundwater data, the OHM detected in groundwater appear to be adsorbed to soils and are not present in a dissolved state. As a result, groundwater

contamination is unlikely to migrate with groundwater flow and discharge to the Merrimack River or its associated canals. Therefore, a significant impact to surface water is unlikely to be occurring or to occur in the future.

21. Further Response Actions consistent with the MCP are necessary at the disposal site. Tier Classification of the disposal site pursuant to 310 CMR 40.0500 is necessary, and must be conducted prior to implementation of Response Actions [310 CMR 40.0486]. Tier Classification pursuant to 310 CMR 40.0500 is included within this report.

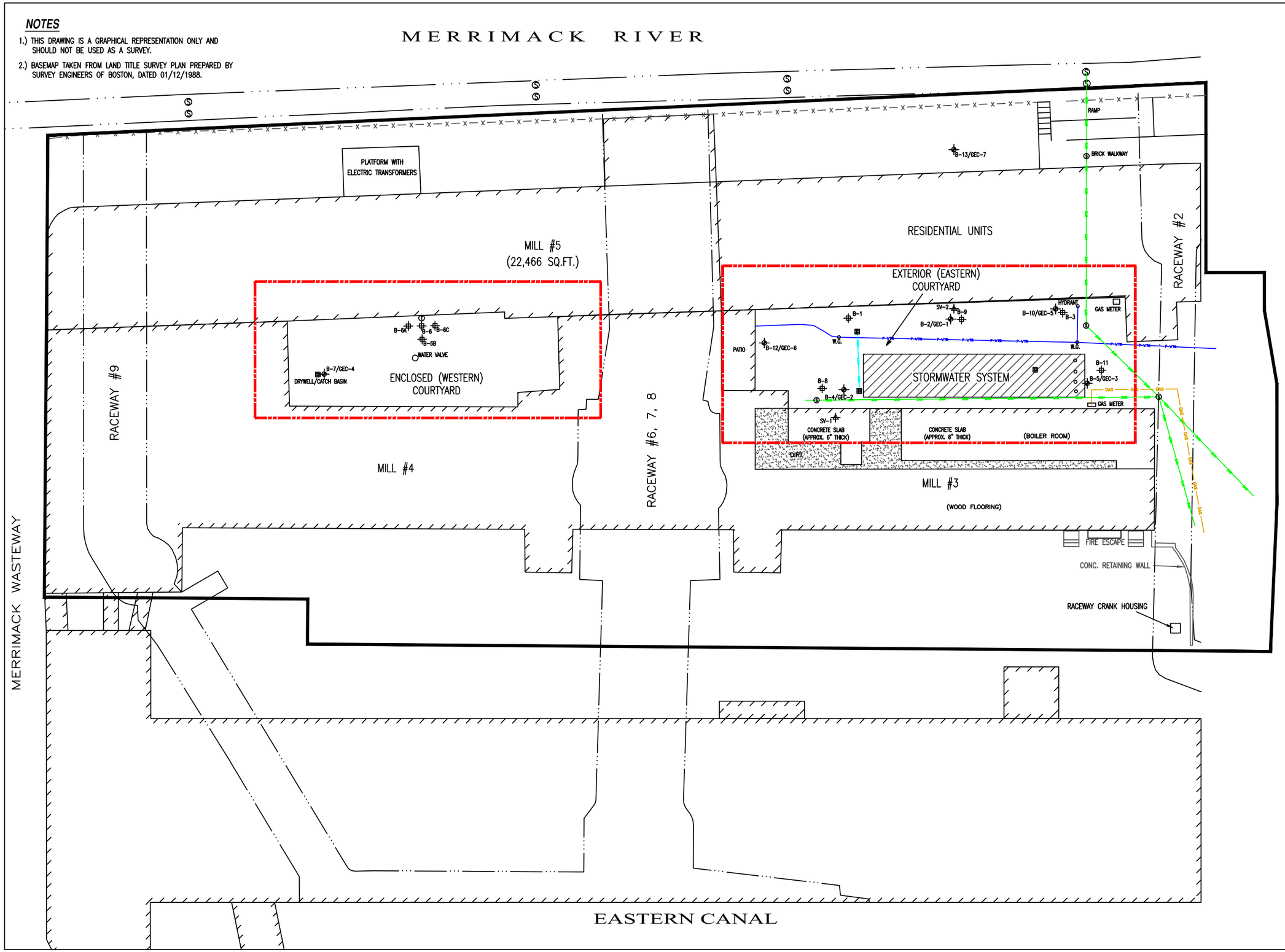
22. Pursuant to 310 CMR 40.1500, the disposal site has a NRS Score of 286. Based on the forgoing, the disposal site is classified as Tier II.

23. Following Tier Classification and prior to initiating Response Actions, a Phase II Scope of Work must be prepared and submitted to the MADEP. A Phase II Scope of Work has been prepared and is included in this report.

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



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Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
- Sanitary Line
- Storm Drain Line
- Gas Line
- Water Line
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall–Mounted Transformer
- Soil Vapor Point

Site Plan

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2

SCALE
0 20' 40'

N

NOTES

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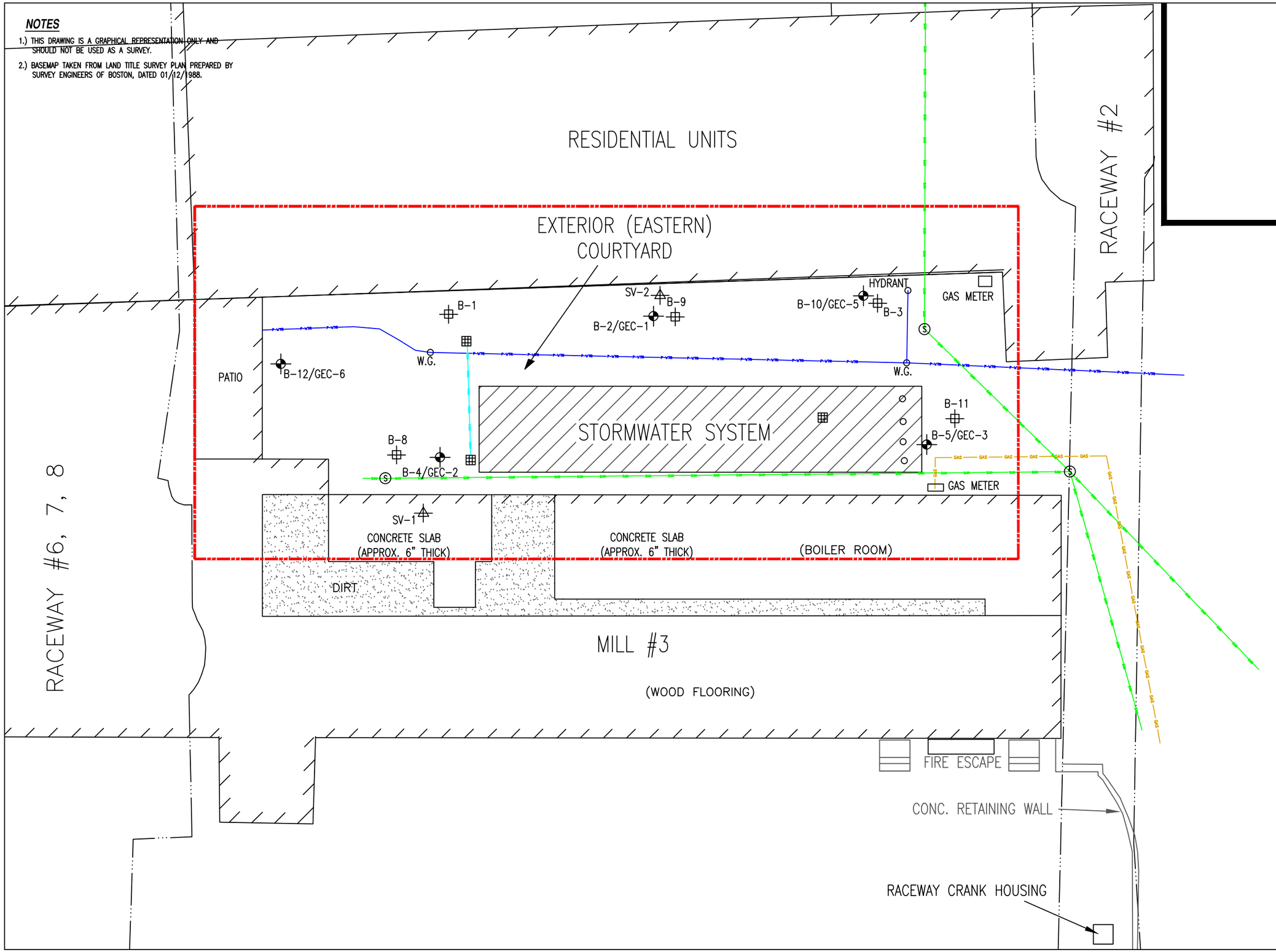

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Site Plan
(Eastern Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2A

SCALE
0 10' 20'

N

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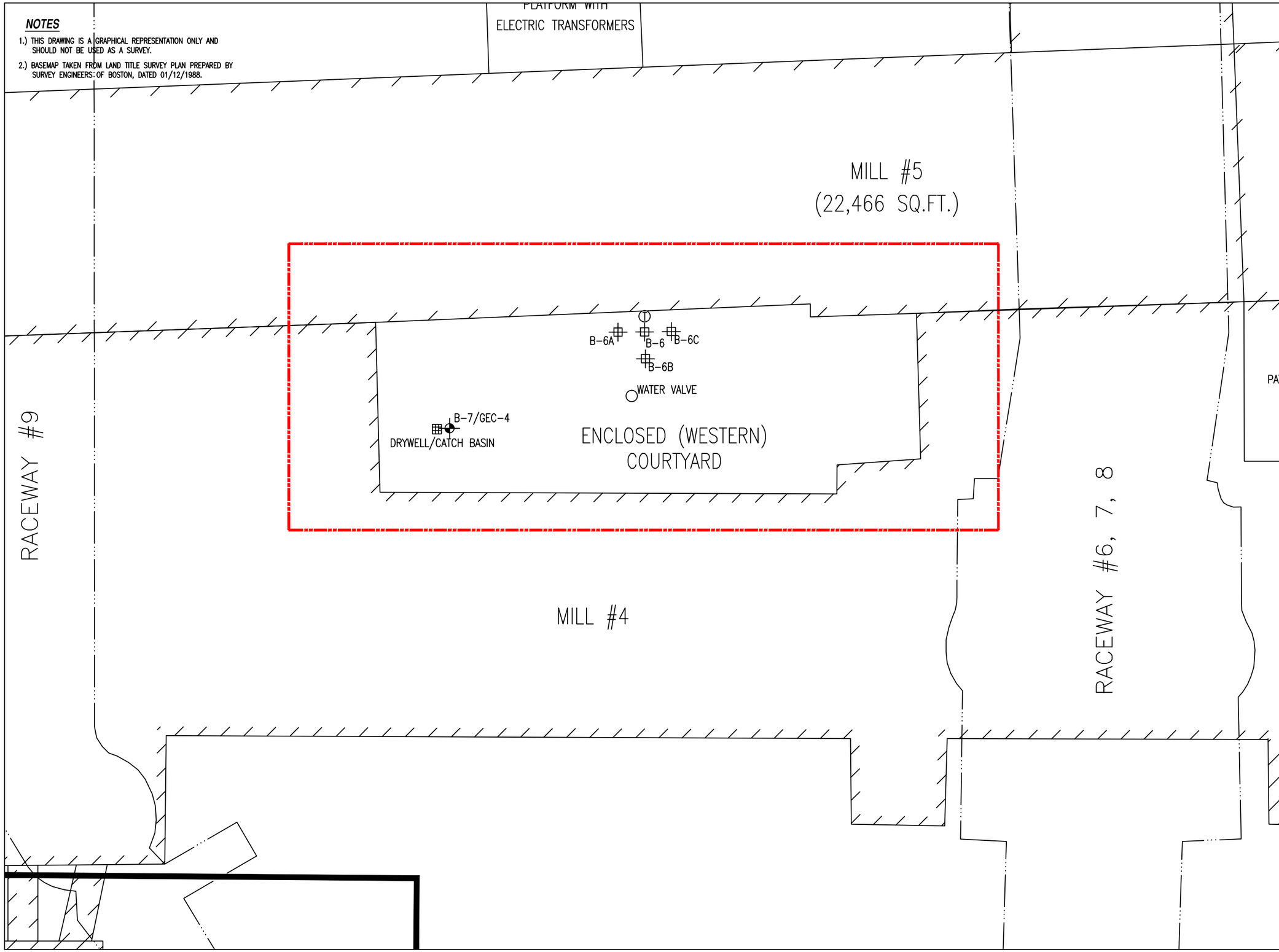

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Legend

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- Soil Vapor Point

Site Plan
(Western Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2B

SCALE
0 10' 20'

N

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April 11, 2012

Mr. Frank Singleton, Director
City of Lowell Board of Health
341 Pine Street
Lowell, Massachusetts 01851

RE: Phase I Initial Site Investigation Report
Phase II Scope of Work
Tier II Classification and Legal Notice
130 Foot of John Street
Lowell, Massachusetts
RTNs 3-26688 & 3-30667

Dear Mr. Singleton,

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Should you have any questions regarding this matter, please do not hesitate to contact GEC at (781) 356-9140.

Respectfully submitted,
Goldman Environmental Consultants, Inc.

Brian T. Butler, LSP #5736
VP, Waste Site Program

cc: NERO

SUMMARY OF FINDINGS AND STATEMENT OF CONCLUSIONS

Based on the investigation documented herein, GEC finds and concludes the following:

1. The subject property, addressed as 130 Foot of John Street in Lowell, Massachusetts, is currently owned by Boott Properties, LLC and contains three adjoining buildings (Building 3, Building 4 and Building 5) utilized as residential, commercial and vacant, "raw" mill space, and is located in an area zoned "Down Town Mixed Use". Historical information indicates that, the property was developed prior to 1892. The property was occupied by the Boott Mills Cotton Goods manufacturer from 1919 to 1955. Since 1955, industrial and commercial activities conducted at the property have included, but were not limited to, wooden box manufacturer, clothing manufacturer, cleaner, textiles, restaurant, dress company, plastic container manufacturers, machine and engineering shop, silk screening companies, electronic assembly company, welding shop, vinyl and cotton lamination companies, bearings manufacturer, various commercial uses and residential.

2. To the extent that the disposal site boundaries have currently been defined, the disposal site boundary extends slightly beyond both courtyard areas.

3. In November 2006, a release of PCBs was discovered in the exterior (eastern) courtyard by TRC of Lowell, MA. TRC was retained by general contractor Consigli Construction, who observed petroleum odor when advancing test pits in the exterior courtyard. When the contamination was discovered, the property was owned by Boott Cotton Mills Development, LLC, a party that was unrelated to the current owner/filer. ECS, on behalf of Scott Lawson Group, Ltd. submitted a RAM Plan to the MADEP on December 8, 2006, providing details on the planned excavation of PCB-contaminated soils. The presence of PCBs in soils at a level (22.73 mg/kg) greater than its RCS-1 Reportable Concentration (2 mg/kg) was reported to the MADEP as a 120-day reportable condition on March 20, 2007. The PCB release condition was assigned RTN 3-26688.

4. Soil excavation was conducted for RTN 3-26688 in March 2007. Following excavation activities nine confirmatory soil samples were collected. On April 30, 2007, the excavation was backfilled with clean soils and gravel. ECS submitted a RAM Completion Report on January 29, 2008, on behalf of Boott Mill Development Corporation. At the time the RAM Completion Report was submitted, the property owner was Boott Cotton Mills Development, LLC. Presumably, Boott Mill Development Corporation and Boot Cotton Mills Development, LLC were affiliates. A stormwater management system was installed in the excavated area subsequent to the RAM.

5. On July 17, 2008, MADEP issued a NON to "Boot Cotton Mill Development Corporation" for not submitting a RAO Statement or Tier Classification Submittal within one year of release notification. No Tier Classification Submittal or RAO Statement has been submitted for RTN 3-26688 since the NON was issued. RTN 3-26688 is currently identified as class Tier 1D (for default). The current owner/filer, Boott Properties, LLC, purchased the property out of foreclosure on October 14, 2010.

6. In February 2010 GEC was contracted by an entity interested in purchasing the property to conduct a due diligence Phase I ESA for the property. The Phase I ESA, dated February 25, 2010, identified: (1) the active disposal site associated with RTN 3-26688 and the known release of PCBs, petroleum hydrocarbons and suspected release of metals to soil in the vicinity of the exterior (eastern) courtyard; and (2) a potential release of OHM from an existing wall-mounted transformer and a former maintenance shop located within the enclosed (western) courtyard.

7. In June and September, 2011, due diligence subsurface investigations were conducted by GEC to determine the extent and magnitude of contamination across the disposal site. Subsurface investigations included the installation of several soil borings and monitoring wells, groundwater gauging and sampling activities and the collection of soil vapor samples.

8. The recent discovery of contaminants not reported to MADEP under RTN 3-26688 was reported by GEC to Boott Mill Developer LLC, the party interested in purchasing the property, in December, 2011. The release triggered a 120-day reporting obligation pursuant to 310 CMR 40.0315(1) for lead concentrations in soil; however, since Boott Mill Developer LLC was not the owner they were under no obligation to notify. GEC prepared a Phase II Limited Subsurface Investigation Report, dated December 8, 2011, summarizing the latest subsurface investigations along with conclusion and recommendations. The report was ultimately provided to Boott Properties, LLC (the current owner) and they were notified of their reporting obligations. Boott Properties, LLC then retained GEC to report the release to the MADEP. The MADEP was notified of the condition on February 22, 2012, through Release Notification Form BWSC-103 which was submitted electronically through eDEP. This release incident was assigned RTN 3-30667. This RTN is being linked to RTN 3-26688 via this Phase I submittal.

9. GEC's subsurface investigation within the exterior courtyard found evidence of residual PCB contamination above the applicable MADEP Method 1 S-1 Standards (2 mg/kg), with one soil sample containing PCB (124 mg/kg) at a level exceeding its UCL (100 mg/kg). Elevated levels of PCB contamination persists in both shallow soils and in soils at depths to 10-15 feet below ground surface adjacent to the north central portion of the courtyard (south wall of the renovated portion of Mill building 5). Additionally, shallow soils in the southwest corner and eastern portion of the courtyard are impacted with elevated concentrations of PCBs. Based on recent subsurface investigations, GEC concludes that the remedial activities conducted by ECS as described in their January 2008 report did not completely address the release of PCBs, reportedly from a wall-mounted transformer formerly located on the northern side of the exterior courtyard. The levels of residual PCB contamination is higher than reported in the RAM Completion Report, and the vertical and horizontal extent of contamination is larger than reported in the RAM Completion Report. The full extent of PCB contamination in soils at the disposal site is not known at this time, including whether the contamination extends beneath Mill buildings 3 or 5.

10. No PCBs were detected in any of the groundwater samples collected for dissolved PCB analysis. In addition, groundwater samples were collected from GEC-1, GEC-2, GEC-4, GEC-6 and GEC-7 for analysis of VOCs and from GEC-2 and GEC-6 for analysis of VPH. Little or no VPH or VOCs were detected in the groundwater samples\. Based on these results, PCBs, VOCs, and VPH in groundwater is not a significant issue. Insufficient VOCs and VPH are present in groundwater to result in the co-solution of PCBs in groundwater.

11. For the exterior courtyard, concentrations of lead in shallow soils (0-3 feet) collected from borings B-10, B-11, and B-12 exceed the MADEP's background concentrations for soils associated with fill containing coal ash or wood ash. The levels of lead also exceed the Method 1 S-1 soil standards.

12. For monitoring well GEC-1, located in the exterior courtyard, total lead was detected (71 ug/l) above its Method 1 GW-3 standard (10 ug/l) in the sample collected on September 7, 2011. Yet, no dissolved lead was detected in the filtered sample collected at the same time from GEC-1, thereby suggesting that lead is adsorbed to soil particles and is not mobilized within the water column.

13. GEC's investigation in the exterior courtyard also found elevated levels of PAH constituents benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene and dibenzo[a,h]anthracene above their MADEP-published background concentrations and Method 1 S-1 soil standards. These exceedences were detected in samples obtained from soil recoveries that contained fly ash, coal, gasified coal and / or coal ash. The presence of PAHs is due at least in part to the presence of coal ash in the soils, which is a background condition; however, the transformer oil release may have contributed to the presence of PAHs in soils.

14. Chromium was detected in one soil sample and nickel in two soil samples at levels greater than their Method 1 S-1 standards and slightly greater than background concentrations. The presence of chromium and nickel may be attributable to the observed presence of coal ash, fly ash and coal in the fill, and/or historic industrial operations at the subject property.

15. GEC's investigation within the enclosed courtyard found no evidence of PCB contamination, though there were relatively low levels of PAHs and metals

detected in at least one sample. Lead was detected at higher concentrations, and it was detected in all soil samples submitted for analysis. Again, GEC documented the presence of brick, coal, and coal ash in soils. Except for lead, the metal and PAH concentrations may be attributed to a background condition and not a separate release. Historic industrial operations may have also contributed to the presence of some of the PAHs and metals.

16. Based on current conditions, the contaminated soils are covered by asphalt and concrete pavement and building foundations. There is no mechanism for human exposure to the soil contamination under current conditions, except perhaps during periods of utility repair work. Exposure to the soils may occur in the future, if the pavement or building foundation is removed or during future construction activities.

17. Soil vapor points were installed through the floor of Mill Building 3 and near Mill Building 5, in the areas with the highest levels of PCB-contaminated soils. Soil vapor samples were collected and analyzed for PCBs. No PCBs were detected and the RDLs were low enough to determine that soil vapor intrusion to indoor air is unlikely to be a significant migration pathway for this disposal site.

18. Based on the available groundwater data, there is no significant dissolved-phase contamination associated with the disposal site. No plume of dissolved-phase groundwater contamination is emanating from the disposal site. No non-aqueous phase liquid or free phase product has been encountered at the disposal site.

19. Based on a review of the available data, additional assessment is needed to fully define the magnitude and extent of PCBs and lead contamination in soils. As presented in the Phase II SOW, additional soil and groundwater samples will be collected throughout the disposal site during Phase II investigations to delineate magnitude and extent of contamination and to characterize potential migration and exposure pathways.

20. The Merrimack River abuts the property and generally flows from northwest to southeast in the vicinity of the property. Based on an evaluation of the available groundwater data, the OHM detected in groundwater appear to be adsorbed to soils and are not present in a dissolved state. As a result, groundwater

contamination is unlikely to migrate with groundwater flow and discharge to the Merrimack River or its associated canals. Therefore, a significant impact to surface water is unlikely to be occurring or to occur in the future.

21. Further Response Actions consistent with the MCP are necessary at the disposal site. Tier Classification of the disposal site pursuant to 310 CMR 40.0500 is necessary, and must be conducted prior to implementation of Response Actions [310 CMR 40.0486]. Tier Classification pursuant to 310 CMR 40.0500 is included within this report.

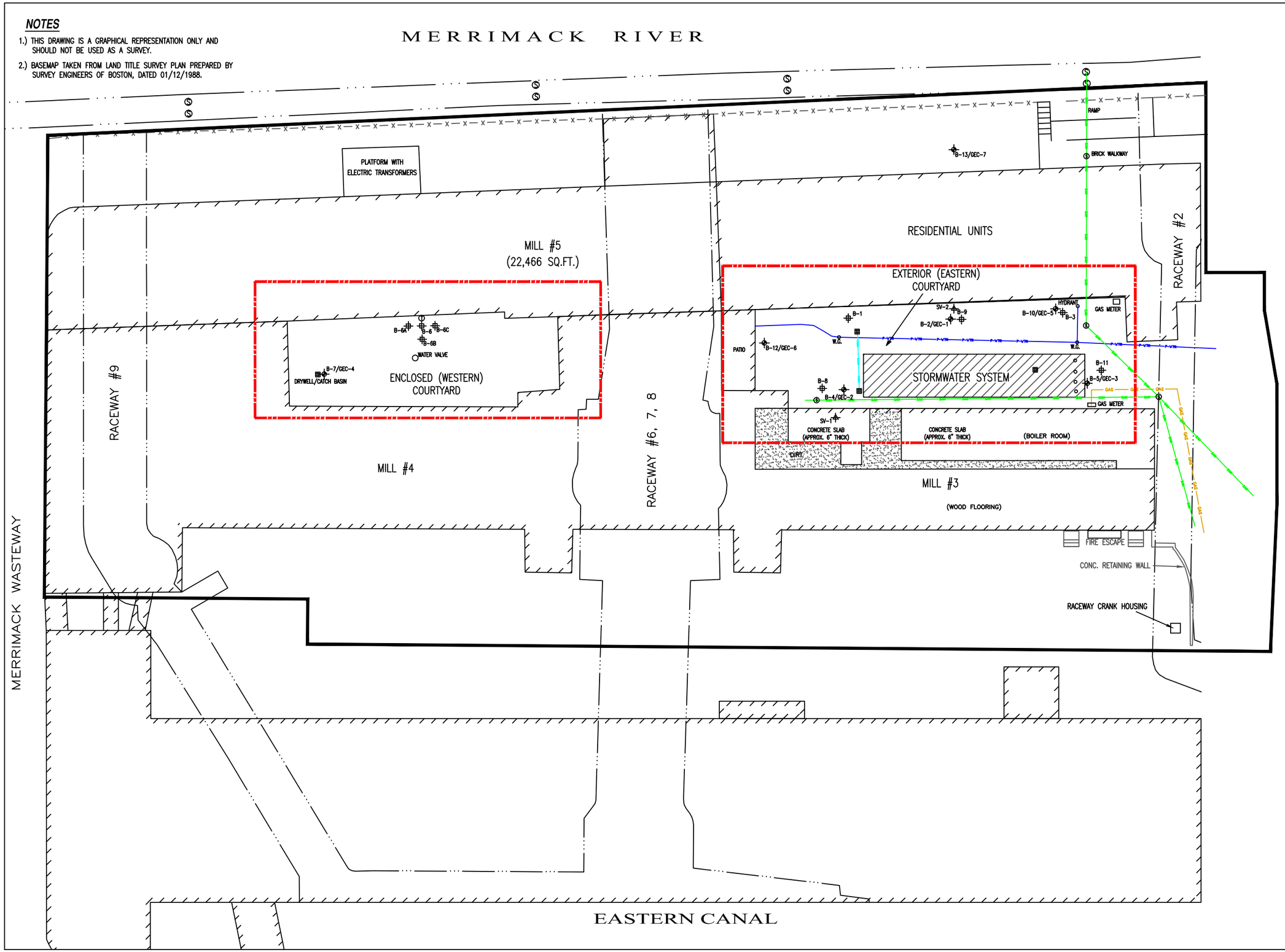
22. Pursuant to 310 CMR 40.1500, the disposal site has a NRS Score of 286. Based on the forgoing, the disposal site is classified as Tier II.

23. Following Tier Classification and prior to initiating Response Actions, a Phase II Scope of Work must be prepared and submitted to the MADEP. A Phase II Scope of Work has been prepared and is included in this report.

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



Goldman Environmental Consultants, Inc.
60 Brooks Drive
Braintree, MA 02184
(781) 356-9140 Fax: (781) 356-9147
www.GoldmanEnvironmental.com

Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
- Sanitary Line
- Storm Drain Line
- Gas Line
- Water Line
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall–Mounted Transformer
- Soil Vapor Point

Site Plan

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2

SCALE
0 20' 40'

N

NOTES

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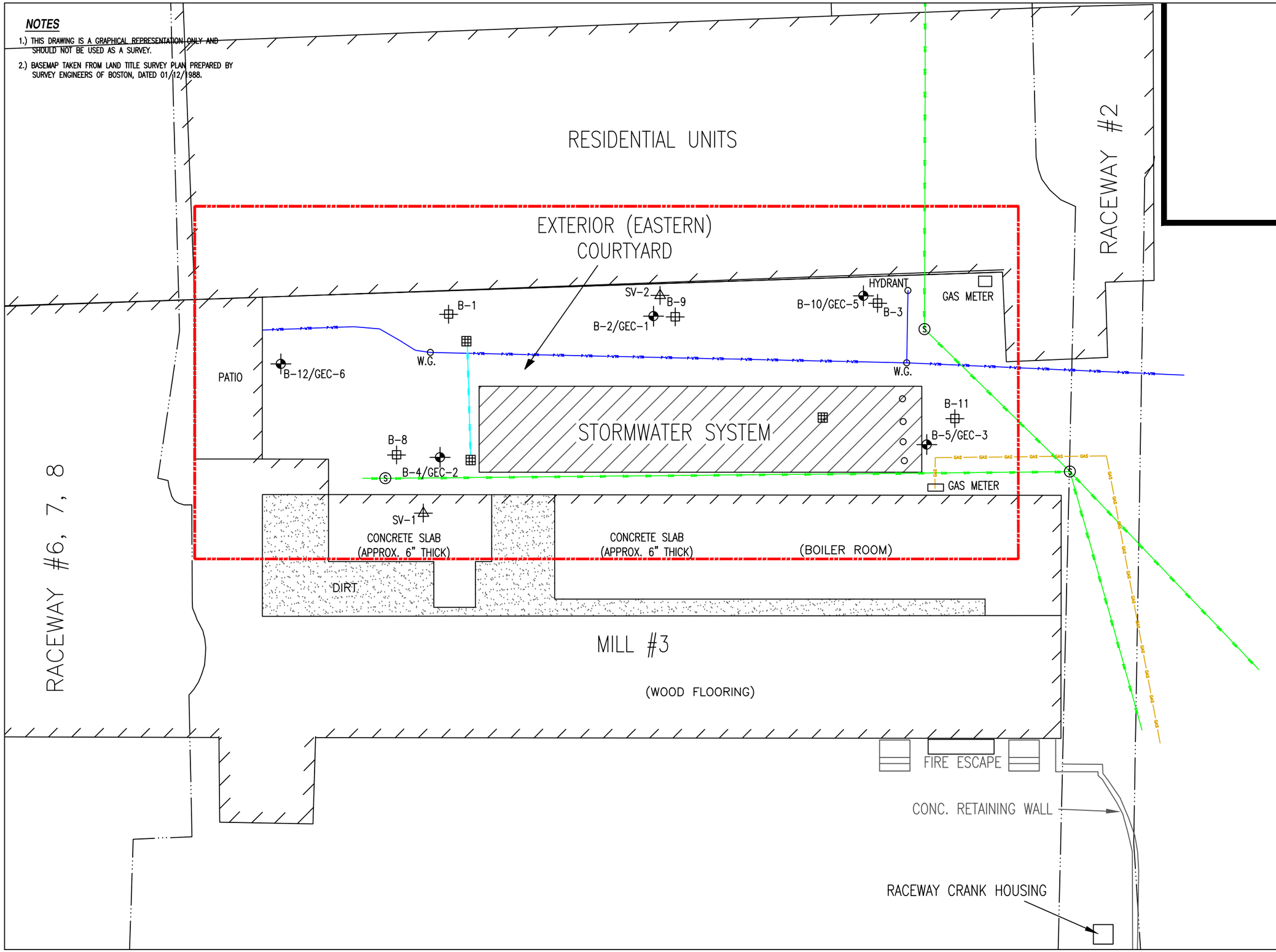

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- Soil Vapor Point

Site Plan
(Eastern Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2A

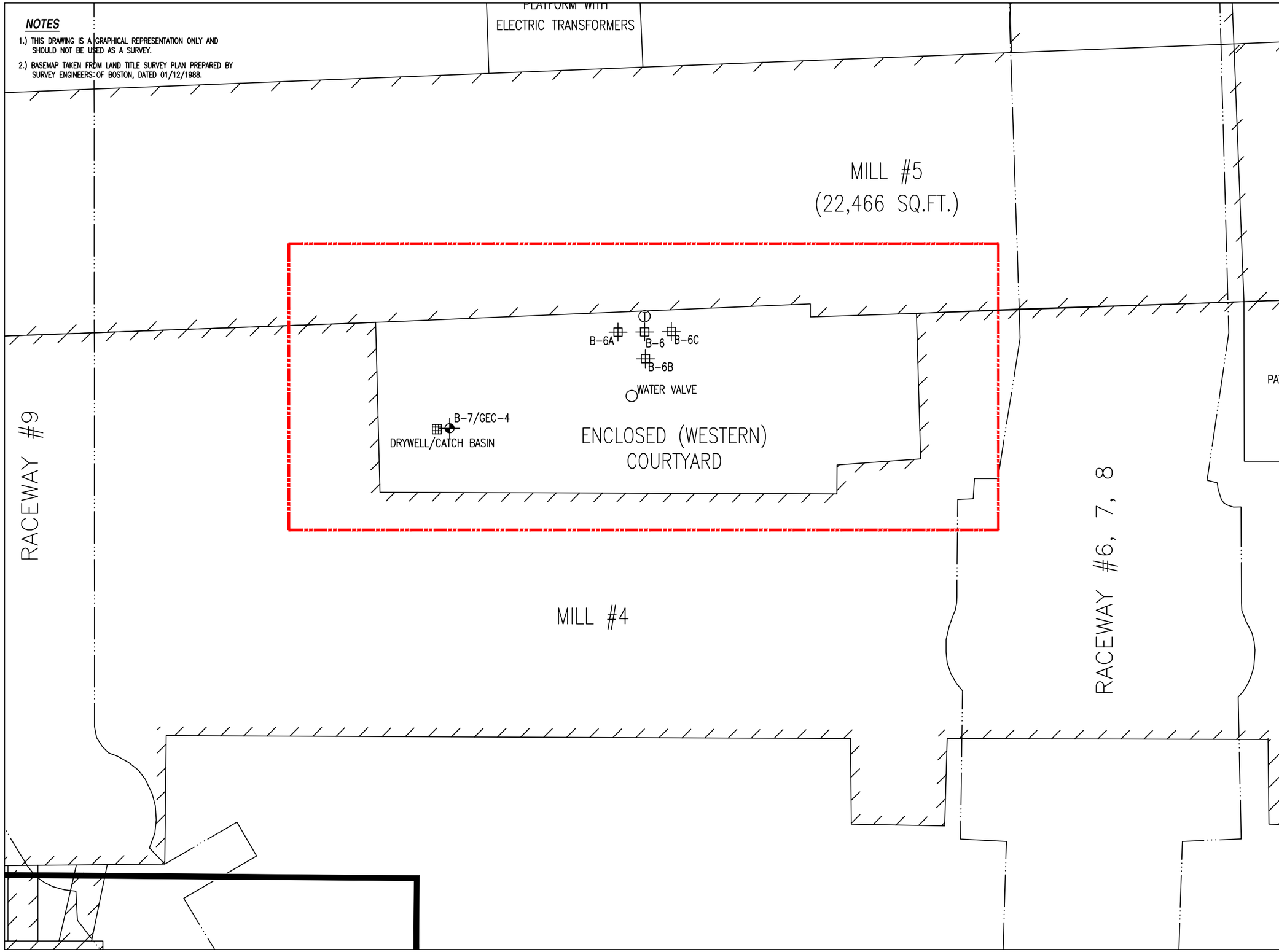
SCALE
0 10' 20'

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) BASEMAP TAKEN FROM LAND TITLE SURVEY PLAN PREPARED BY SURVEY ENGINEERS OF BOSTON, DATED 01/12/1988.



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Legend

- Building
- Stone Wall
- Wood Fence
- Raceway
- Property Boundary
- Site Boundary
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- Storm Drain Line
- Gas Line
- Water Line
- Soil Boring/ Monitoring Well
- Soil Boring
- Catch Basin
- Wall-Mounted Transformer
- Soil Vapor Point

Site Plan
(Western Courtyard)

Boott Mills
John Street
Lowell, Massachusetts

GEC Project Number 1717-2010
GEC File Number 032112A

FIGURE 2B

SCALE
0 10' 20'

N

NOTICE OF AN INITIAL SITE INVESTIGATION AND TIER II CLASSIFICATION

130 FOOT OF JOHN STREET, LOWELL, MA
RELEASE TRACKING NUMBERS 3-26688 & 3-30667

Pursuant to the Massachusetts Contingency Plan (310 CMR 40.0480), an Initial Site Investigation has been performed at the above referenced location.
A release of oil and/or hazardous materials has occurred at this location which is a disposal site (defined by M.G.L. c. 21E, Section 2). Response actions at this site will be conducted by **BOOTT PROPERTIES LLC, 72 SUMNER STREET, MILFORD, MASSACHUSETTS** who has employed **BRAIN BUTLER OF GOLDMAN ENVIRONMENTAL CONSULTANTS, INC.** to manage response actions in accordance with the Massachusetts Contingency Plan (310 CMR 4.0000). This site has been classified as **Tier II,** pursuant to 310 CMR 40.0500**.**
M.G.L. c. 21E and the Massachusetts Contingency Plan provide additional opportunities for public notice of and involvement in decisions regarding response actions at disposal sites: 1) The Chief Municipal Official and Board of Health of the community in which the site is located will be notified of major milestones and events, pursuant to 310 CMR 40.1403; and 2) Upon receipt of a petition from ten or more residents of the municipality in which the disposal site is located, or of a municipality potentially affected by a disposal site, a plan for involving the public in decisions regarding response actions at the site will be prepared and implemented, pursuant to 310 CMR 40.1405.

To obtain more information on this disposal site and the opportunities for public involvement during its remediation, please contact **BRIAN BUTLER, GOLDMAN ENVIRONMENTAL CONSULTANTS, INC., 60 BROOKS DRIVE, BRAINTREE, MASSACHUSETTS 02184** at **781-356-9140 X113**.

Legal Notice to be published in the LOWELL SUN on April 17, 2012.
Lowell Sun
491 Dutton Street
Lowell, Massachusetts 01854
Tel (978) 970-4754

APPENDIX E

Laboratory Reports

GROUNDWATER ANALYTICAL

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

June 15, 2011

Mr. Parrish Smolcha
Goldman Environmental Consultants, Inc.
60 Brooks Drive
Braintree, MA 02184

LABORATORY REPORT

Project: **Boott Mills/911-1730**
Lab ID: **142417**
Received: **06-07-11**

Dear Parrish:

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/nfm

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**Boott Mills/911-1730**	Delivery:	**GWA Courier**	Temperature:	**3.7ºC**
Client:	**Goldman Environmental Consultants, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142417**	Lab Receipt:	**06-07-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-1	B-1 1-5'		Soil	6/6/2011 10:10	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033232	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-2	B-1 10-15'		Soil	6/6/2011 10:11	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C1290757	120 mL Amber Glass	Scientific Specialist	BX37034	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-3	B-2 1-5'		Soil	6/6/2011 11:25	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033233	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-4	B-2 10-15'		Soil	6/6/2011 11:30	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033234	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-5	B-3 5-10'		Soil	6/6/2011 14:50	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033238	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-6	B-4 2-5'		Soil	6/6/2011 15:57	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033243	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-7	B-4 12-15'		Soil	6/6/2011 15:58	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033242	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**Boott Mills/911-1730**	Delivery:	**GWA Courier**	Temperature:	**3.7ºC**
Client:	**Goldman Environmental Consultants, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142417**	Lab Receipt:	**06-07-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-8	B-5 10-15'		Soil	6/6/2011 15:25	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033239	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-9	B-6 0-4'		Soil	6/6/2011 12:20	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033240	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142417-10	B-7 8-10'		Soil	6/6/2011 13:10	EPA 6010B/7471A MA DEP Metals EPA 8082 PCBs MA DEP EPH with PAHs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033236	250 mL Amber Glass	Proline	BX39237	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**Boott Mills/911-1730**	Lab ID:	**142417**
Client:	**Goldman Environmental Consultants, Inc.**	Received:	**06-07-11 18:30**

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 8082: 142417-1,-2,-3,-4,-5,-6,-7,-8,-9,-10
MA DEP EPH: 142417-1,-2,-3,-4,-5,-6,-7,-8,-9,-10
EPA 6010B: 142417-1,-2,-3,-4,-5,-6,-7,-8,-9,-10
EPA 7470A/1A: 142417-1,-2,-3,-4,-5,-6,-7,-8,-9,-10

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC CAM II A ( )	7470/7471 Hg CAM III B (X)	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 (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)?	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:	06-15-11

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-1 1-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-1**	Percent Solids:	**94**
Sampled:	**06-06-11 10:10**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.505 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**2.6**		mg/Kg	1.1	1	06-08-11 19:27	EPA 6010B[1]
7440-38-2	Arsenic, Total	**5.0**		mg/Kg	3.2	1	06-08-11 19:27	EPA 6010B[1]
7440-39-3	Barium, Total	**54**		mg/Kg	5.3	1	06-08-11 19:27	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.32	1	06-08-11 19:27	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.65**		mg/Kg	0.53	1	06-08-11 19:27	EPA 6010B[1]
7440-47-3	Chromium, Total	**14**		mg/Kg	1.1	1	06-08-11 19:27	EPA 6010B[1]
7439-92-1	Lead, Total	**95**		mg/Kg	5.3	1	06-08-11 19:27	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.15**		mg/Kg	0.017	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**10**		mg/Kg	5.3	1	06-08-11 19:27	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.3	1	06-08-11 19:27	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.1	1	06-08-11 19:27	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.3	1	06-08-11 19:27	EPA 6010B[1]
7440-62-2	Vanadium, Total	**16**		mg/Kg	1.1	1	06-08-11 19:27	EPA 6010B[1]
7440-66-6	Zinc, Total	**66**		mg/Kg	5.3	1	06-08-11 19:27	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:	**B-1 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**120 mL Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-2**	Percent Solids:	**80**
Sampled:	**06-06-11 10:11**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.485 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.3	1	06-08-11 19:32	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.9	1	06-08-11 19:32	EPA 6010B[1]
7440-39-3	Barium, Total	**28**		mg/Kg	6.5	1	06-08-11 19:31	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.39	1	06-08-11 19:31	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.65	1	06-08-11 19:32	EPA 6010B[1]
7440-47-3	Chromium, Total	**12**		mg/Kg	1.3	1	06-08-11 19:31	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/Kg	6.5	1	06-08-11 19:32	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.021	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**7.2**		mg/Kg	6.5	1	06-08-11 19:31	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.5	1	06-08-11 19:32	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.3	1	06-08-11 19:31	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	6.5	1	06-08-11 19:32	EPA 6010B[1]
7440-62-2	Vanadium, Total	**24**		mg/Kg	1.3	1	06-08-11 19:31	EPA 6010B[1]
7440-66-6	Zinc, Total	**35**		mg/Kg	6.5	1	06-08-11 19:31	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:	**B-2 1-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-3**	Percent Solids:	**90**
Sampled:	**06-06-11 11:25**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.5 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**3.4**		mg/Kg	1.1	1	06-08-11 19:36	EPA 6010B[1]
7440-38-2	Arsenic, Total	**4.2**		mg/Kg	3.3	1	06-08-11 19:36	EPA 6010B[1]
7440-39-3	Barium, Total	**73**		mg/Kg	5.5	1	06-08-11 19:35	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.33	1	06-08-11 19:35	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.55	1	06-08-11 19:36	EPA 6010B[1]
7440-47-3	Chromium, Total	**15**		mg/Kg	1.1	1	06-08-11 19:35	EPA 6010B[1]
7439-92-1	Lead, Total	**290**		mg/Kg	5.5	1	06-08-11 19:36	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.34**		mg/Kg	0.019	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**11**		mg/Kg	5.5	1	06-08-11 19:36	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.5	1	06-08-11 19:36	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.1	1	06-08-11 19:35	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.5	1	06-08-11 19:36	EPA 6010B[1]
7440-62-2	Vanadium, Total	**25**		mg/Kg	1.1	1	06-08-11 19:35	EPA 6010B[1]
7440-66-6	Zinc, Total	**68**		mg/Kg	5.5	1	06-08-11 19:35	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:	**B-2 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-4**	Percent Solids:	**86**
Sampled:	**06-06-11 11:30**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.505 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**4.0**		mg/Kg	1.1	1	06-08-11 19:42	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.4	1	06-08-11 19:42	EPA 6010B[1]
7440-39-3	Barium, Total	**91**		mg/Kg	5.7	1	06-08-11 19:42	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.34	1	06-08-11 19:42	EPA 6010B[1]
7440-43-9	Cadmium, Total	**1.3**		mg/Kg	0.57	1	06-08-11 19:42	EPA 6010B[1]
7440-47-3	Chromium, Total	**38**		mg/Kg	1.1	1	06-08-11 19:42	EPA 6010B[1]
7439-92-1	Lead, Total	**590**		mg/Kg	5.7	1	06-08-11 19:42	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.39**		mg/Kg	0.02	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**22**		mg/Kg	5.7	1	06-08-11 19:42	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.7	1	06-08-11 19:42	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.1	1	06-08-11 19:42	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.7	1	06-08-11 19:42	EPA 6010B[1]
7440-62-2	Vanadium, Total	**47**		mg/Kg	1.1	1	06-08-11 19:42	EPA 6010B[1]
7440-66-6	Zinc, Total	**140**		mg/Kg	5.7	1	06-08-11 19:42	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
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Report Notations:
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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-3 5-10'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-5**	Percent Solids:	**82**
Sampled:	**06-06-11 14:50**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.515 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**2.8**		mg/Kg	1.2	1	06-08-11 19:58	EPA 6010B[1]
7440-38-2	Arsenic, Total	**6.2**		mg/Kg	3.6	1	06-08-11 19:58	EPA 6010B[1]
7440-39-3	Barium, Total	**33**		mg/Kg	5.9	1	06-08-11 19:58	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.36	1	06-08-11 19:57	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.63**		mg/Kg	0.59	1	06-08-11 19:58	EPA 6010B[1]
7440-47-3	Chromium, Total	**18**		mg/Kg	1.2	1	06-08-11 19:57	EPA 6010B[1]
7439-92-1	Lead, Total	**17**		mg/Kg	5.9	1	06-08-11 19:58	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.061**		mg/Kg	0.021	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**13**		mg/Kg	5.9	1	06-08-11 19:58	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.9	1	06-08-11 19:58	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	06-08-11 19:57	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.9	1	06-08-11 19:58	EPA 6010B[1]
7440-62-2	Vanadium, Total	**24**		mg/Kg	1.2	1	06-08-11 19:57	EPA 6010B[1]
7440-66-6	Zinc, Total	**37**		mg/Kg	5.9	1	06-08-11 19:57	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.

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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-4 2-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-6**	Percent Solids:	**88**
Sampled:	**06-06-11 15:57**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.49 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**3.6**		mg/Kg	1.2	1	06-08-11 20:02	EPA 6010B[1]
7440-38-2	Arsenic, Total	**6.3**		mg/Kg	3.5	1	06-08-11 20:02	EPA 6010B[1]
7440-39-3	Barium, Total	**410**		mg/Kg	5.8	1	06-08-11 20:02	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.35	1	06-08-11 20:02	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.94**		mg/Kg	0.58	1	06-08-11 20:02	EPA 6010B[1]
7440-47-3	Chromium, Total	**20**		mg/Kg	1.2	1	06-08-11 20:02	EPA 6010B[1]
7439-92-1	Lead, Total	**530**		mg/Kg	5.8	1	06-08-11 20:02	EPA 6010B[1]
7439-97-6	Mercury, Total	**2.5**		mg/Kg	0.19	10	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**14**		mg/Kg	5.8	1	06-08-11 20:02	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.8	1	06-08-11 20:02	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	06-08-11 20:02	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.8	1	06-08-11 20:02	EPA 6010B[1]
7440-62-2	Vanadium, Total	**28**		mg/Kg	1.2	1	06-08-11 20:02	EPA 6010B[1]
7440-66-6	Zinc, Total	**220**		mg/Kg	5.8	1	06-08-11 20:02	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-4 12-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-7**	Percent Solids:	**83**
Sampled:	**06-06-11 15:58**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.515 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.2	1	06-08-11 20:09	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.5	1	06-08-11 20:09	EPA 6010B[1]
7440-39-3	Barium, Total	**25**		mg/Kg	5.8	1	06-08-11 20:09	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.35	1	06-08-11 20:08	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.58	1	06-08-11 20:09	EPA 6010B[1]
7440-47-3	Chromium, Total	**8.6**		mg/Kg	1.2	1	06-08-11 20:09	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/Kg	5.8	1	06-08-11 20:09	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.02	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**6.2**		mg/Kg	5.8	1	06-08-11 20:09	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	5.8	1	06-08-11 20:09	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.2	1	06-08-11 20:08	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.8	1	06-08-11 20:09	EPA 6010B[1]
7440-62-2	Vanadium, Total	**16**		mg/Kg	1.2	1	06-08-11 20:08	EPA 6010B[1]
7440-66-6	Zinc, Total	**33**		mg/Kg	5.8	1	06-08-11 20:08	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-5 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-8**	Percent Solids:	**75**
Sampled:	**06-06-11 15:25**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.51 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**3.8**		mg/Kg	1.3	1	06-08-11 20:13	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.9	1	06-08-11 20:13	EPA 6010B[1]
7440-39-3	Barium, Total	**35**		mg/Kg	6.6	1	06-08-11 20:13	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.39	1	06-08-11 20:13	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.66	1	06-08-11 20:13	EPA 6010B[1]
7440-47-3	Chromium, Total	**13**		mg/Kg	1.3	1	06-08-11 20:13	EPA 6010B[1]
7439-92-1	Lead, Total	**6.6**		mg/Kg	6.6	1	06-08-11 20:13	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.022	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**8.7**		mg/Kg	6.6	1	06-08-11 20:13	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.6	1	06-08-11 20:13	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.3	1	06-08-11 20:13	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	6.6	1	06-08-11 20:13	EPA 6010B[1]
7440-62-2	Vanadium, Total	**24**		mg/Kg	1.3	1	06-08-11 20:13	EPA 6010B[1]
7440-66-6	Zinc, Total	**41**		mg/Kg	6.6	1	06-08-11 20:13	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-6 0-4'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-9**	Percent Solids:	**79**
Sampled:	**06-06-11 12:20**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.495 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**4.6**		mg/Kg	1.3	1	06-08-11 20:17	EPA 6010B[1]
7440-38-2	Arsenic, Total	**5.6**		mg/Kg	3.8	1	06-08-11 20:17	EPA 6010B[1]
7440-39-3	Barium, Total	**110**		mg/Kg	6.4	1	06-08-11 20:17	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.38	1	06-08-11 20:17	EPA 6010B[1]
7440-43-9	Cadmium, Total	**0.97**		mg/Kg	0.64	1	06-08-11 20:17	EPA 6010B[1]
7440-47-3	Chromium, Total	**20**		mg/Kg	1.3	1	06-08-11 20:17	EPA 6010B[1]
7439-92-1	Lead, Total	**900**		mg/Kg	6.4	1	06-08-11 20:17	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.69**		mg/Kg	0.021	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**13**		mg/Kg	6.4	1	06-08-11 20:17	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.4	1	06-08-11 20:17	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.3	1	06-08-11 20:17	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	6.4	1	06-08-11 20:17	EPA 6010B[1]
7440-62-2	Vanadium, Total	**23**		mg/Kg	1.3	1	06-08-11 20:17	EPA 6010B[1]
7440-66-6	Zinc, Total	**220**		mg/Kg	6.4	1	06-08-11 20:17	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**B-7 8-10'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-10**	Percent Solids:	**79**
Sampled:	**06-06-11 13:10**		
Received:	**06-07-11 18:30**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-02040-S	EPA 3050B	06-08-11 00:00	0.505 g	ICP-1 PE 3000	LMS
EPA 7471A[2]	MP-2673-S	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.3	1	06-08-11 20:23	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.8	1	06-08-11 20:23	EPA 6010B[1]
7440-39-3	Barium, Total	**20**		mg/Kg	6.3	1	06-08-11 20:23	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.38	1	06-08-11 20:23	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.63	1	06-08-11 20:23	EPA 6010B[1]
7440-47-3	Chromium, Total	**10**		mg/Kg	1.3	1	06-08-11 20:23	EPA 6010B[1]
7439-92-1	Lead, Total	**6.9**		mg/Kg	6.3	1	06-08-11 20:23	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.021	1	06-09-11 10:29	EPA 7471A[2]
7440-02-0	Nickel, Total	**6.9**		mg/Kg	6.3	1	06-08-11 20:23	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	6.3	1	06-08-11 20:23	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	1.3	1	06-08-11 20:23	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	6.3	1	06-08-11 20:23	EPA 6010B[1]
7440-62-2	Vanadium, Total	**18**		mg/Kg	1.3	1	06-08-11 20:23	EPA 6010B[1]
7440-66-6	Zinc, Total	**35**		mg/Kg	6.3	1	06-08-11 20:23	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

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**B-1 1-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-1**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 10:10**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 15:46**	% Solids:	**94**
Analyzed (AR):	**06-08-11 16:30**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	20
n-C19 to n-C36 Aliphatic Hydrocarbons †	**210**		mg/Kg	20
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**150**		mg/Kg	20
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	170		mg/Kg	20

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	**1.9**		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	**0.60**		mg/Kg	0.50
206-44-0	Fluoranthene	**3.2**		mg/Kg	0.50
129-00-0	Pyrene	**3.0**		mg/Kg	0.50
56-55-3	Benzo[a]anthracene	**1.7**		mg/Kg	0.50
218-01-9	Chrysene	**2.0**		mg/Kg	0.50
205-99-2	Benzo[b]fluoranthene	**1.5**		mg/Kg	0.50
207-08-9	Benzo[k]fluoranthene	**1.4**		mg/Kg	0.50
50-32-8	Benzo[a]pyrene	**1.9**		mg/Kg	0.50
193-39-5	Indeno[1,2,3-c,d]pyrene	**1.2**		mg/Kg	0.50
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.50
191-24-2	Benzo[g,h,i]perylene	**1.2**		mg/Kg	0.50

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	2.7	2.4	**89** %	40 - 140 %
	2-Bromonaphthalene	2.7	2.4	**91** %	40 - 140 %
Extraction:	Chloro-octadecane	2.7	1.8	**66** %	40 - 140 %
	ortho-Terphenyl	2.7	2.5	**93** %	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? Yes

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:	**B-1 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**120 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-2**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 10:11**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 17:14**	% Solids:	**80**
Analyzed (AR):	**06-08-11 17:58**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	25
n-C19 to n-C36 Aliphatic Hydrocarbons †	**29**		mg/Kg	25
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		mg/Kg	25
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		mg/Kg	25

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.62
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.62
85-01-8	Phenanthrene	BRL		mg/Kg	0.62
83-32-9	Acenaphthene	BRL		mg/Kg	0.62
208-96-8	Acenaphthylene	BRL		mg/Kg	0.62
86-73-7	Fluorene	BRL		mg/Kg	0.62
120-12-7	Anthracene	BRL		mg/Kg	0.62
206-44-0	Fluoranthene	BRL		mg/Kg	0.62
129-00-0	Pyrene	BRL		mg/Kg	0.62
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.62
218-01-9	Chrysene	BRL		mg/Kg	0.62
205-99-2	Benzo[b]fluoranthene	BRL		mg/Kg	0.62
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.62
50-32-8	Benzo[a]pyrene	BRL		mg/Kg	0.62
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.62
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.62
191-24-2	Benzo[g,h,i]perylene	BRL		mg/Kg	0.62

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.3	2.9	**88** %	40 - 140 %
	2-Bromonaphthalene	3.3	3.0	**89** %	40 - 140 %
Extraction:	Chloro-octadecane	3.3	2.9	**86** %	40 - 140 %
	ortho-Terphenyl	3.3	2.9	**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 11.3.1.1? Yes

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:	**B-2 1-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-3**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 11:25**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 18:42**	% Solids:	**90**
Analyzed (AR):	**06-08-11 19:26**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	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 †	**160**		mg/Kg	22
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**200**		mg/Kg	22
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	270		mg/Kg	22

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.54
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.54
85-01-8	Phenanthrene	**8.4**		mg/Kg	0.54
83-32-9	Acenaphthene	**0.70**		mg/Kg	0.54
208-96-8	Acenaphthylene	BRL		mg/Kg	0.54
86-73-7	Fluorene	**0.85**		mg/Kg	0.54
120-12-7	Anthracene	**2.3**		mg/Kg	0.54
206-44-0	Fluoranthene	**12**		mg/Kg	0.54
129-00-0	Pyrene	**11**		mg/Kg	0.54
56-55-3	Benzo[a]anthracene	**5.9**		mg/Kg	0.54
218-01-9	Chrysene	**6.6**		mg/Kg	0.54
205-99-2	Benzo[b]fluoranthene	**6.1**		mg/Kg	0.54
207-08-9	Benzo[k]fluoranthene	**4.1**		mg/Kg	0.54
50-32-8	Benzo[a]pyrene	**6.1**		mg/Kg	0.54
193-39-5	Indeno[1,2,3-c,d]pyrene	**3.9**		mg/Kg	0.54
53-70-3	Dibenzo[a,h]anthracene	**1.0**		mg/Kg	0.54
191-24-2	Benzo[g,h,i]perylene	**3.5**		mg/Kg	0.54

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	2.9	2.5	**86** %	40 - 140 %
	2-Bromonaphthalene	2.9	2.6	**90** %	40 - 140 %
Extraction:	Chloro-octadecane	2.9	2.2	**76** %	40 - 140 %
	ortho-Terphenyl	2.9	2.7	**95** %	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? Yes

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:	**B-2 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-4**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 11:30**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 20:10**	% Solids:	**86**
Analyzed (AR):	**06-08-11 20:54**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	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 †	**69**		mg/Kg	22
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**38**		mg/Kg	22
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	44		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	BRL		mg/Kg	0.56
83-32-9	Acenaphthene	BRL		mg/Kg	0.56
208-96-8	Acenaphthylene	BRL		mg/Kg	0.56
86-73-7	Fluorene	BRL		mg/Kg	0.56
120-12-7	Anthracene	BRL		mg/Kg	0.56
206-44-0	Fluoranthene	**1.0**		mg/Kg	0.56
129-00-0	Pyrene	**0.95**		mg/Kg	0.56
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.56
218-01-9	Chrysene	**0.68**		mg/Kg	0.56
205-99-2	Benzo[b]fluoranthene	**0.59**		mg/Kg	0.56
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.56
50-32-8	Benzo[a]pyrene	**0.64**		mg/Kg	0.56
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.56
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.56
191-24-2	Benzo[g,h,i]perylene	BRL		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	2.5	**83** %	40 - 140 %
	ortho-Terphenyl	3.0	2.5	**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 11.3.1.1? Yes

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:	**B-3 5-10'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-5**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 14:50**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 21:38**	% Solids:	**82**
Analyzed (AR):	**06-08-11 22:22**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

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 †	**30**		mg/Kg	24
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		mg/Kg	24
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		mg/Kg	24

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.60
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.60
85-01-8	Phenanthrene	BRL		mg/Kg	0.60
83-32-9	Acenaphthene	BRL		mg/Kg	0.60
208-96-8	Acenaphthylene	BRL		mg/Kg	0.60
86-73-7	Fluorene	BRL		mg/Kg	0.60
120-12-7	Anthracene	BRL		mg/Kg	0.60
206-44-0	Fluoranthene	BRL		mg/Kg	0.60
129-00-0	Pyrene	BRL		mg/Kg	0.60
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.60
218-01-9	Chrysene	BRL		mg/Kg	0.60
205-99-2	Benzo[b]fluoranthene	BRL		mg/Kg	0.60
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.60
50-32-8	Benzo[a]pyrene	BRL		mg/Kg	0.60
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.60
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.60
191-24-2	Benzo[g,h,i]perylene	BRL		mg/Kg	0.60

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.2	3.1	**96** %	40 - 140 %
	2-Bromonaphthalene	3.2	3.1	**97** %	40 - 140 %
Extraction:	Chloro-octadecane	3.2	2.9	**92** %	40 - 140 %
	ortho-Terphenyl	3.2	3.0	**95** %	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? Yes

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:	**B-4 2-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-6**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 15:57**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-09-11 09:18**	% Solids:	**88**
Analyzed (AR):	**06-09-11 10:02**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**5**

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 †	**610**		mg/Kg	23
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**560**		mg/Kg	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	690		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	**17**		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	**4.5**		mg/Kg	2.8
206-44-0	Fluoranthene	**24**		mg/Kg	2.8
129-00-0	Pyrene	**19**		mg/Kg	2.8
56-55-3	Benzo[a]anthracene	**9.8**		mg/Kg	2.8
218-01-9	Chrysene	**11**		mg/Kg	2.8
205-99-2	Benzo[b]fluoranthene	**8.7**		mg/Kg	2.8
207-08-9	Benzo[k]fluoranthene	**8.1**		mg/Kg	2.8
50-32-8	Benzo[a]pyrene	**9.8**		mg/Kg	2.8
193-39-5	Indeno[1,2,3-c,d]pyrene	**6.0**		mg/Kg	2.8
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	2.8
191-24-2	Benzo[g,h,i]perylene	**5.8**		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	2.1	**68** %	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 Recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**B-4 12-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-7**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 15:58**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 18:36**	% Solids:	**83**
Analyzed (AR):	**06-08-11 19:20**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

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 †	BRL		mg/Kg	23
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		mg/Kg	23
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		mg/Kg	23

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.58
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.58
85-01-8	Phenanthrene	BRL		mg/Kg	0.58
83-32-9	Acenaphthene	BRL		mg/Kg	0.58
208-96-8	Acenaphthylene	BRL		mg/Kg	0.58
86-73-7	Fluorene	BRL		mg/Kg	0.58
120-12-7	Anthracene	BRL		mg/Kg	0.58
206-44-0	Fluoranthene	BRL		mg/Kg	0.58
129-00-0	Pyrene	BRL		mg/Kg	0.58
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.58
218-01-9	Chrysene	BRL		mg/Kg	0.58
205-99-2	Benzo[b]fluoranthene	BRL		mg/Kg	0.58
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.58
50-32-8	Benzo[a]pyrene	BRL		mg/Kg	0.58
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.58
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.58
191-24-2	Benzo[g,h,i]perylene	BRL		mg/Kg	0.58

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.1	2.5	**82** %	40 - 140 %
	2-Bromonaphthalene	3.1	2.5	**82** %	40 - 140 %
Extraction:	Chloro-octadecane	3.1	2.5	**81** %	40 - 140 %
	ortho-Terphenyl	3.1	2.3	**76** %	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? Yes

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:	**B-5 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-8**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 15:25**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 20:04**	% Solids:	**75**
Analyzed (AR):	**06-08-11 20:48**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	25
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		mg/Kg	25
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		mg/Kg	25
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		mg/Kg	25

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.63
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.63
85-01-8	Phenanthrene	BRL		mg/Kg	0.63
83-32-9	Acenaphthene	BRL		mg/Kg	0.63
208-96-8	Acenaphthylene	BRL		mg/Kg	0.63
86-73-7	Fluorene	BRL		mg/Kg	0.63
120-12-7	Anthracene	BRL		mg/Kg	0.63
206-44-0	Fluoranthene	BRL		mg/Kg	0.63
129-00-0	Pyrene	BRL		mg/Kg	0.63
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.63
218-01-9	Chrysene	BRL		mg/Kg	0.63
205-99-2	Benzo[b]fluoranthene	BRL		mg/Kg	0.63
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.63
50-32-8	Benzo[a]pyrene	BRL		mg/Kg	0.63
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.63
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.63
191-24-2	Benzo[g,h,i]perylene	BRL		mg/Kg	0.63

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.4	2.7	**80** %	40 - 140 %
	2-Bromonaphthalene	3.4	2.7	**80** %	40 - 140 %
Extraction:	Chloro-octadecane	3.4	2.7	**79** %	40 - 140 %
	ortho-Terphenyl	3.4	2.4	**72** %	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? Yes

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:	**B-6 0-4'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-9**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 12:20**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 21:32**	% Solids:	**94**
Analyzed (AR):	**06-08-11 22:16**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		mg/Kg	21
n-C19 to n-C36 Aliphatic Hydrocarbons †	**65**		mg/Kg	21
n-C11 to n-C22 Aromatic Hydrocarbons †◊	**140**		mg/Kg	21
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	210		mg/Kg	21

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.52
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.52
85-01-8	Phenanthrene	**10**		mg/Kg	0.52
83-32-9	Acenaphthene	**1.1**		mg/Kg	0.52
208-96-8	Acenaphthylene	BRL		mg/Kg	0.52
86-73-7	Fluorene	**1.0**		mg/Kg	0.52
120-12-7	Anthracene	**2.2**		mg/Kg	0.52
206-44-0	Fluoranthene	**11**		mg/Kg	0.52
129-00-0	Pyrene	**9.4**		mg/Kg	0.52
56-55-3	Benzo[a]anthracene	**4.7**		mg/Kg	0.52
218-01-9	Chrysene	**5.4**		mg/Kg	0.52
205-99-2	Benzo[b]fluoranthene	**4.5**		mg/Kg	0.52
207-08-9	Benzo[k]fluoranthene	**3.2**		mg/Kg	0.52
50-32-8	Benzo[a]pyrene	**4.3**		mg/Kg	0.52
193-39-5	Indeno[1,2,3-c,d]pyrene	**2.8**		mg/Kg	0.52
53-70-3	Dibenzo[a,h]anthracene	**0.76**		mg/Kg	0.52
191-24-2	Benzo[g,h,i]perylene	**2.3**		mg/Kg	0.52

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	2.8	2.1	**76** %	40 - 140 %
	2-Bromonaphthalene	2.8	2.1	**76** %	40 - 140 %
Extraction:	Chloro-octadecane	2.8	2.2	**79** %	40 - 140 %
	ortho-Terphenyl	2.8	2.5	**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 11.3.1.1? Yes

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:	**B-7 8-10'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-10**	QC Batch ID:	**EP-3237-M**
Sampled:	**06-06-11 13:10**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-08-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-08-11 23:00**	% Solids:	**79**
Analyzed (AR):	**06-08-11 23:44**	Aliphatic Dilution Factor:	**1**
Analyst:	**JJT**	Aromatic Dilution Factor:	**1**

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 †	BRL		mg/Kg	24
n-C11 to n-C22 Aromatic Hydrocarbons †◊	BRL		mg/Kg	24
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		mg/Kg	24

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		mg/Kg	0.61
91-57-6	2-Methylnaphthalene	BRL		mg/Kg	0.61
85-01-8	Phenanthrene	BRL		mg/Kg	0.61
83-32-9	Acenaphthene	BRL		mg/Kg	0.61
208-96-8	Acenaphthylene	BRL		mg/Kg	0.61
86-73-7	Fluorene	BRL		mg/Kg	0.61
120-12-7	Anthracene	BRL		mg/Kg	0.61
206-44-0	Fluoranthene	BRL		mg/Kg	0.61
129-00-0	Pyrene	BRL		mg/Kg	0.61
56-55-3	Benzo[a]anthracene	BRL		mg/Kg	0.61
218-01-9	Chrysene	BRL		mg/Kg	0.61
205-99-2	Benzo[b]fluoranthene	BRL		mg/Kg	0.61
207-08-9	Benzo[k]fluoranthene	BRL		mg/Kg	0.61
50-32-8	Benzo[a]pyrene	BRL		mg/Kg	0.61
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		mg/Kg	0.61
53-70-3	Dibenzo[a,h]anthracene	BRL		mg/Kg	0.61
191-24-2	Benzo[g,h,i]perylene	BRL		mg/Kg	0.61

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	3.3	3.0	**92** %	40 - 140 %
	2-Bromonaphthalene	3.3	3.0	**92** %	40 - 140 %
Extraction:	Chloro-octadecane	3.3	2.8	**87** %	40 - 140 %
	ortho-Terphenyl	3.3	3.0	**91** %	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? Yes

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

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**B-1 1-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-01**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 10:10**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**94**
Analyzed:	**06-09-11 20:00**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	84
11104-28-2	Aroclor 1221	BRL		ug/Kg	84
11141-16-5	Aroclor 1232	BRL		ug/Kg	84
53469-21-9	Aroclor 1242	BRL		ug/Kg	84
12672-29-6	Aroclor 1248	**570**	2C (510)*	ug/Kg	84
11097-69-1	Aroclor 1254	**530**	2C (430)*	ug/Kg	84
11096-82-5	Aroclor 1260	BRL		ug/Kg	84
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	84
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	84

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	14	13	**90** %	30 - 150 %
Column	Decachlorobiphenyl	14	13	**90** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	14	13	**95** %	30 - 150 %
Column	Decachlorobiphenyl	14	10	**72** %	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:	**B-1 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**120 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-02**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 10:11**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**80**
Analyzed:	**06-08-11 22:53**	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	BRL		ug/Kg	100
11096-82-5	Aroclor 1260	BRL		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	Tetrachloro-*m*-xylene	17	10	**62** %	30 - 150 %
Column	Decachlorobiphenyl	17	14	**86** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	17	11	**64** %	30 - 150 %
Column	Decachlorobiphenyl	17	15	**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:	**B-2 1-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-03**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 11:25**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**90**
Analyzed:	**06-09-11 22:12**	Dilution Factor:	**50**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	4,300
11104-28-2	Aroclor 1221	BRL		ug/Kg	4,300
11141-16-5	Aroclor 1232	BRL		ug/Kg	4,300
53469-21-9	Aroclor 1242	BRL		ug/Kg	4,300
12672-29-6	Aroclor 1248	**20,000**	2C (18000)*	ug/Kg	4,300
11097-69-1	Aroclor 1254	**11,000**	2C (7900)*	ug/Kg	4,300
11096-82-5	Aroclor 1260	BRL		ug/Kg	4,300
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	4,300
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	4,300

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	14	n/a	d	30 - 150 %
Column	Decachlorobiphenyl	14	n/a	d	30 - 150 %
Second	Tetrachloro-*m*-xylene	14	n/a	d	30 - 150 %
Column	Decachlorobiphenyl	14	n/a	d	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.

d Recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**B-2 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-04**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 11:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**86**
Analyzed:	**06-09-11 20:47**	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	**1800**	e 1C (1500)*	ug/Kg	91
11097-69-1	Aroclor 1254	**2400**	e 2C (1900)*	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	Tetrachloro-*m*-xylene	15	19	**126** %	30 - 150 %
Column	Decachlorobiphenyl	15	18	**119** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	15	22	**146** %	30 - 150 %
Column	Decachlorobiphenyl	15	15	**97** %	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.
- 2C Concentration reported from second column.
- e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**B-2 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-04RA1**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 11:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**86**
Analyzed:	**06-09-11 21:11**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	460
11104-28-2	Aroclor 1221	BRL		ug/Kg	460
11141-16-5	Aroclor 1232	BRL		ug/Kg	460
53469-21-9	Aroclor 1242	BRL		ug/Kg	460
12672-29-6	Aroclor 1248	**1800**	1C (1500)*	ug/Kg	460
11097-69-1	Aroclor 1254	**2300**	2C (2000)*	ug/Kg	460
11096-82-5	Aroclor 1260	BRL		ug/Kg	460
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	460
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	460

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	15	20	**134** %	30 - 150 %
Column	Decachlorobiphenyl	15	18	**118** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	15	20	**132** %	30 - 150 %
Column	Decachlorobiphenyl	15	22	**142** %	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.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**B-3 5-10'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-05**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 14:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**82**
Analyzed:	**06-09-11 00:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	97
11104-28-2	Aroclor 1221	BRL		ug/Kg	97
11141-16-5	Aroclor 1232	BRL		ug/Kg	97
53469-21-9	Aroclor 1242	BRL		ug/Kg	97
12672-29-6	Aroclor 1248	BRL		ug/Kg	97
11097-69-1	Aroclor 1254	BRL		ug/Kg	97
11096-82-5	Aroclor 1260	BRL		ug/Kg	97
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	97
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	97

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	16	15	**90** %	30 - 150 %
Column	Decachlorobiphenyl	16	15	**94** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	16	15	**93** %	30 - 150 %
Column	Decachlorobiphenyl	16	15	**95** %	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:	**B-4 2-5'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-06**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 15:57**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-09-11 22:35**	Dilution Factor:	**100**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	9,000
11104-28-2	Aroclor 1221	BRL		ug/Kg	9,000
11141-16-5	Aroclor 1232	BRL		ug/Kg	9,000
53469-21-9	Aroclor 1242	BRL		ug/Kg	9,000
12672-29-6	Aroclor 1248	**60000**	1C (55000)*	ug/Kg	9,000
11097-69-1	Aroclor 1254	**64000**	2C (52000)*	ug/Kg	9,000
11096-82-5	Aroclor 1260	BRL		ug/Kg	9,000
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	9,000
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	9,000

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	15	n/a	d	30 - 150 %
Column	Decachlorobiphenyl	15	n/a	d	30 - 150 %
Second	Tetrachloro-*m*-xylene	15	n/a	d	30 - 150 %
Column	Decachlorobiphenyl	15	n/a	d	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.
- 2C Concentration reported from second column.
- d Recovery not measurable due to required sample dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**B-4 12-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-07**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 15:58**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**83**
Analyzed:	**06-09-11 00:53**	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	Tetrachloro-*m*-xylene	16	10	**63** %	30 - 150 %
Column	Decachlorobiphenyl	16	13	**79** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	16	10	**65** %	30 - 150 %
Column	Decachlorobiphenyl	16	14	**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:	**B-5 10-15'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-08**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 15:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**15 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**75**
Analyzed:	**06-09-11 01:16**	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	BRL		ug/Kg	100
11096-82-5	Aroclor 1260	BRL		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	Tetrachloro-*m*-xylene	17	15	**85** %	30 - 150 %
Column	Decachlorobiphenyl	17	16	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	17	16	**90** %	30 - 150 %
Column	Decachlorobiphenyl	17	17	**96** %	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:	**B-6 0-4'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-09**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 12:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**94**
Analyzed:	**06-09-11 01:40**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	82
11104-28-2	Aroclor 1221	BRL		ug/Kg	82
11141-16-5	Aroclor 1232	BRL		ug/Kg	82
53469-21-9	Aroclor 1242	BRL		ug/Kg	82
12672-29-6	Aroclor 1248	BRL		ug/Kg	82
11097-69-1	Aroclor 1254	BRL		ug/Kg	82
11096-82-5	Aroclor 1260	BRL		ug/Kg	82
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	82
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	82

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	14	15	**110** %	30 - 150 %
Column	Decachlorobiphenyl	14	14	**106** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	14	15	**112** %	30 - 150 %
Column	Decachlorobiphenyl	14	16	**114** %	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.

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EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**B-7 8-10'**	Matrix:	**Soil**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142417-10**	QC Batch ID:	**PB-3754-P**
Sampled:	**06-06-11 13:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-07-11 18:30**	Sample Weight:	**16 g**
Extracted:	**06-07-11 23:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-08-11 21:00**	Percent Solids:	**79**
Analyzed:	**06-09-11 02:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	96
11104-28-2	Aroclor 1221	BRL		ug/Kg	96
11141-16-5	Aroclor 1232	BRL		ug/Kg	96
53469-21-9	Aroclor 1242	BRL		ug/Kg	96
12672-29-6	Aroclor 1248	BRL		ug/Kg	96
11097-69-1	Aroclor 1254	BRL		ug/Kg	96
11096-82-5	Aroclor 1260	BRL		ug/Kg	96
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	96
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	96

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	16	13	**84** %	30 - 150 %
Column	Decachlorobiphenyl	16	14	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	16	14	**88** %	30 - 150 %
Column	Decachlorobiphenyl	16	16	**99** %	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

Project Narrative

Project:	**Boott Mills/911-1730**	Lab ID:	**142417**
Client:	**Goldman Environmental Consultants, Inc.**	Received:	**06-07-11 18:30**

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 8082 Non-conformance: Sample 142417-04. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.

2 . EPA 8082 Note: Samples 142417-03, -04 and -06. Sample 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.

3 . MA DEP EPH Non-conformance: Sample 142417-06. Sample did not have measureable surrogate recoveries due to required sample dilution.

4 . MA DEP EPH Note: Sample 142417-06. 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.

Version 10-2010

GROUNDWATER ANALYTICAL

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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: Boott Mills
Firm: GEC
Project Number: 911-1730
Address: 60 Brooks
Sampler Name: Matt Wilson
City / State / Zip:: Braintree MA 02184
Project Manager: Parrish Smolcha
Telephone: (781) 356-9140

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: PSmolcha
- ☐ Please FAX to: _____

BILLING

- ☒ Purchase Order No.: 911-1730
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ TIC Search
SDWA: ☐ 524.2
NPDES: ☐ 624
RCRA/21E: ☐ 8260B TCL-MTBE ☐ 8260B

Volatiles: ☐ 8260B Aromatics ☐ 8260B Halocarbons ☐ 8021B Vermont ☐ 8270C

Semivolatiles: ☐ Acid Only ☐ B/N Only ☐ TIC Search ☐ 525.2 ☐ 625 ☐ 625 PAHs only

Pest/Herb/PCBs Extractable: ☐ 608 Pesticides ☐ 8081A Pesticides ☐ 8082 PCBs ☐ 508 ☐ 508 ☐ 608 PCBs ☐ 531.1

Pest/Herb/PCBs Vol.: ☐ 515.3 ☐ 504.1 EDB/DBCP ☐ 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 TPH ☐ MA DEP EPH w/all targets ☐ EPH C 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 ☐ Semi VOA ☐ Pesticides ☐ Herbicides ☐ Corrosivity (as pH) ☐ Reactivity ☐ Ignitability ☐ Conductivity ☐ Paint Filter ☐ MA Basic Disposal 8260BTCL TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity ☐ MA Extended Disposal 8260B, 8270C, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity

General Chemistry: ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Fluoride ☐ Sulfate ☐ Dissolved Phosphorus ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as NO3/NO2/TKN) ☐ LL Total P ☐ 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)

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)
-6	1010	B-1 0-5'				✓									✓												✓				
	1011	B-1 10-15'																													
	1125	B-2 1-5'																													
	1130	B-2 10-15'																													
	1450	B-3 5-10'																													
	1557	B-4 2-5'																													
	1558	B-4 12-15'																													
	1525	B-5 10-15'																													
	1220	B-6 0-4'																													
✓	1310	B-7 8-10'																													

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: _____

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:
Matthew Wil	6-7-11	0900	GEC Cold Storage	☐ Ice ☐ Refrigerated 2-6 C Recommended 3.7
Relinquished by:	**Date**	**Time**	**Received by:**	**Container Count:**
Matthew Wil	6/7/11	1055	[illegible]	10
Relinquished by:	**Date**	**Time**	**Received by Laboratory:**	**Shipping/Airbill Number:**
[illegible]	6/7/11	1870	[illegible]	

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-3237-M**	Extracted:	**06-08-11 09:30**	Extracted:	**06-08-11 09:30**
Matrix:	**Soil**	Analyzed (AL):	**06-08-11 13:42**	Analyzed (AL):	**06-08-11 15:40**
Units:	**mg/Kg**	Analyzed (AR):	**06-08-11 15:00**	Analyzed (AR):	**06-08-11 16:24**
		Analyst:	**JJT**	Analyst:	**JJT**

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	**55** %	3.3	1.7	**51** %	**6** %	30 - 140 %	25%
124-18-5	*n*-Decane (C_{10})	3.3	2.1	**64** %	3.3	2.0	**60** %	**7** %	40 - 140 %	25%
112-40-3	*n*-Dodecane (C_{12})	3.3	2.3	**69** %	3.3	2.1	**64** %	**7** %	40 - 140 %	25%
629-59-4	*n*-Tetradecane (C_{14})	3.3	2.3	**70** %	3.3	2.1	**65** %	**7** %	40 - 140 %	25%
544-76-3	*n*-Hexadecane (C_{16})	3.3	2.5	**77** %	3.3	2.4	**72** %	**7** %	40 - 140 %	25%
593-45-3	*n*-Octadecane (C_{18})	3.3	2.7	**83** %	3.3	2.5	**77** %	**8** %	40 - 140 %	25%
n/a	*n*-C9 to *n*-C18 Group	20	14	**70** %	20	13	**65** %	**7** %	40 - 140 %	25%
629-92-5	*n*-Nonadecane (C_{19})	3.3	2.8	**84** %	3.3	2.6	**78** %	**8** %	40 - 140 %	25%
112-95-8	*n*-Eicosane (C_{20})	3.3	2.7	**83** %	3.3	2.5	**75** %	**9** %	40 - 140 %	25%
629-97-0	*n*-Docosane (C_{22})	3.3	2.4	**74** %	3.3	2.2	**67** %	**9** %	40 - 140 %	25%
646-31-1	*n*-Tetracosane (C_{24})	3.3	2.4	**74** %	3.3	2.2	**67** %	**10** %	40 - 140 %	25%
630-01-3	*n*-Hexacosane (C_{26})	3.3	2.4	**73** %	3.3	2.2	**66** %	**10** %	40 - 140 %	25%
630-02-4	*n*-Octacosane (C_{28})	3.3	2.4	**73** %	3.3	2.2	**67** %	**10** %	40 - 140 %	25%
638-68-6	*n*-Triacontane (C_{30})	3.3	2.4	**73** %	3.3	2.2	**67** %	**10** %	40 - 140 %	25%
630-06-8	*n*-Hexatriacontane (C_{36})	3.3	2.4	**72** %	3.3	2.2	**65** %	**9** %	40 - 140 %	25%
n/a	*n*-C19 to *n*-C36 Group	26	20	**76** %	26	18	**69** %	**9** %	40 - 140 %	25%
91-20-3	Naphthalene	3.3	2.4	**73** %	3.3	2.4	**73** %	**0** %	40 - 140 %	25%
91-57-6	2-Methylnaphthalene	3.3	2.5	**76** %	3.3	2.5	**77** %	**1** %	40 - 140 %	25%
208-96-8	Acenaphthylene	3.3	2.7	**82** %	3.3	2.7	**82** %	**0** %	40 - 140 %	25%
83-32-9	Acenaphthene	3.3	2.6	**77** %	3.3	2.6	**77** %	**0** %	40 - 140 %	25%
86-73-7	Fluorene	3.3	2.6	**79** %	3.3	2.6	**79** %	**1** %	40 - 140 %	25%
85-01-8	Phenanthrene	3.3	2.9	**88** %	3.3	2.9	**87** %	**1** %	40 - 140 %	25%
120-12-7	Anthracene	3.3	3.0	**92** %	3.3	3.0	**92** %	**1** %	40 - 140 %	25%
206-44-0	Fluoranthene	3.3	2.9	**89** %	3.3	2.9	**88** %	**1** %	40 - 140 %	25%
129-00-0	Pyrene	3.3	3.0	**91** %	3.3	3.0	**89** %	**2** %	40 - 140 %	25%
56-55-3	Benzo[a]anthracene	3.3	2.6	**78** %	3.3	2.5	**76** %	**2** %	40 - 140 %	25%
218-01-9	Chrysene	3.3	2.9	**89** %	3.3	2.8	**86** %	**3** %	40 - 140 %	25%
205-99-2	Benzo[b]fluoranthene	3.3	2.7	**81** %	3.3	2.6	**79** %	**2** %	40 - 140 %	25%
207-08-9	Benzo[k]fluoranthene	3.3	2.8	**84** %	3.3	2.7	**82** %	**3** %	40 - 140 %	25%
50-32-8	Benzo[a]pyrene	3.3	2.9	**89** %	3.3	2.9	**87** %	**3** %	40 - 140 %	25%
193-39-5	Indeno[1,2,3-c,d]pyrene	3.3	2.8	**84** %	3.3	2.7	**82** %	**2** %	40 - 140 %	25%
53-70-3	Dibenzo[a,h]anthracene	3.3	2.7	**82** %	3.3	2.6	**80** %	**2** %	40 - 140 %	25%
191-24-2	Benzo[g,h,i]perylene	3.3	2.7	**83** %	3.3	2.7	**81** %	**2** %	40 - 140 %	25%
n/a	PAH Group	56	47	**83** %	56	46	**82** %	**1** %	40 - 140 %	25%

QC Surrogate Compound		Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Fractionation:	2-Fluorobiphenyl	2.7	2.4	**89** %	2.7	2.4	**89** %		40 - 140 %
	2-Bromonaphthalene	2.7	2.4	**89** %	2.7	2.5	**93** %		40 - 140 %
Extraction:	Chloro-octadecane	2.7	2.2	**81** %	2.7	2.0	**74** %		40 - 140 %
	ortho-Terphenyl	2.7	2.4	**89** %	2.7	2.7	**100** %		40 - 140 %

Fractionation Breakthrough Evaluation						QC Limits
91-20-3	Naphthalene	LCS	**0** %	LCSD	**0** %	5%
91-57-6	2-Methylnaphthalene	LCS	**1** %	LCSD	**1** %	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.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP EPH**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-3237-M**	Extracted:	**06-08-11 09:30**
Matrix:	**Soil**	Analyzed (AL):	**06-08-11 17:08**
		Analyzed (AR):	**06-08-11 17:52**
		Analyst:	**JJT**

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	2.3	**85** %	40 - 140 %
	2-Bromonaphthalene	2.7	2.3	**85** %	40 - 140 %
Extraction:	Chloro-octadecane	2.7	2.2	**82** %	40 - 140 %
	ortho -Terphenyl	2.7	2.3	**86** %	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.

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-3754-P**	Extracted:	**06-07-11 09:30**	Extracted:	**06-07-11 09:30**
Matrix:	**Soil**	Cleaned Up:	**06-07-11 19:30**	Cleaned Up:	**06-07-11 19:30**
Units:	**ug/Kg**	Analyzed:	**06-07-11 22:04**	Analyzed:	**06-07-11 22:27**
		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	320	320	**95%**	**96%**	330	290	300	**88%**	**89%**	**7 %**	**8 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	330	330	320	**98%**	**96%**	330	310	300	**93%**	**89%**	**6 %**	**7 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	13	12	12	**89%**	**89%**	13	11	11	**81%**	**80%**		30 - 150 %
Decachlorobiphenyl	13	12	13	**93%**	**95%**	13	12	12	**88%**	**88%**		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-13 Agilent 6890**
QC Batch ID:	**PB-3754-P**	Extracted:	**06-07-11 09:30**
Matrix:	**Soil**	Cleaned Up:	**06-07-11 19:30**
		Analyzed:	**06-07-11 21:40**
		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	11	**85** %	30 - 150 %
	Decachlorobiphenyl	13	12	**87** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	13	11	**84** %	30 - 150 %
	Decachlorobiphenyl	13	11	**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.

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-2040-SL	EPA 3050B	06-08-11 00:00	06-08-11 18:39	ICP-1 PE 3000	PD
LCS	EPA 7471A	MP-2673-SL	EPA 7471A	06-08-11 00:00	06-09-11 09:39	CVAA-1 PE FIMS	LMS
LCSD	EPA 6010B	MB-2040-SL	EPA 3050B	06-08-11 00:00	06-08-11 18:52	ICP-1 PE 3000	PD
LCSD	EPA 7471A	MP-2673-SL	EPA 7471A	06-08-11 00:00	06-09-11 09:40	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-36-0	Antimony	120	87	**72%**	120	89	**73%**	**1 %**	0-220 %	30 %	EPA 6010B
7440-38-2	Arsenic	93	89	**96%**	93	93	**101%**	**3 %**	83-117 %	30 %	EPA 6010B
7440-39-3	Barium	170	170	**98%**	170	190	**110%**	**6 %**	83-117 %	30 %	EPA 6010B
7440-41-7	Beryllium	62	59	**95%**	62	64	**103%**	**4 %**	84-116 %	30 %	EPA 6010B
7440-43-9	Cadmium	62	64	**104%**	62	68	**111%**	**3 %**	80-120 %	30 %	EPA 6010B
7440-47-3	Chromium	71	73	**103%**	71	79	**110%**	**3 %**	82-118 %	30 %	EPA 6010B
7439-92-1	Lead	92	96	**103%**	92	100	**112%**	**4 %**	83-117 %	30 %	EPA 6010B
7439-97-6	Mercury	3.7	3.7	**98%**	3.7	3.4	**90%**	**4 %**	72-128 %	30 %	EPA 7471A
7440-02-0	Nickel	59	64	**109%**	59	69	**116%**	**3 %**	84-116 %	30 %	EPA 6010B
7782-49-2	Selenium	90	89	**100%**	90	92	**103%**	**1 %**	79-121 %	30 %	EPA 6010B
7440-22-4	Silver	34	31	**89%**	34	34	**99%**	**5 %**	66-134 %	30 %	EPA 6010B
7440-28-0	Thallium	120	120	**95%**	120	120	**101%**	**3 %**	81-119 %	30 %	EPA 6010B
7440-62-2	Vanadium	59	65	**110%**	59	69	**117%**	**3 %**	73-126 %	30 %	EPA 6010B
7440-66-6	Zinc	140	140	**100%**	140	150	**106%**	**3 %**	81-119 %	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-2040-SB	EPA 3050B	06-08-11 00:00	0.5 g	ICP-1 PE 3000	PD
EPA 7471A	MP-2673-SB	EPA 7471A	06-08-11 00:00	0.6 g	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony	BRL		mg/Kg	1.0	1	06-08-11 18:34	EPA 6010B
7440-38-2	Arsenic	BRL		mg/Kg	3.0	1	06-08-11 18:34	EPA 6010B
7440-39-3	Barium	BRL		mg/Kg	5.0	1	06-08-11 18:34	EPA 6010B
7440-41-7	Beryllium	BRL		mg/Kg	0.3	1	06-08-11 18:34	EPA 6010B
7440-43-9	Cadmium	BRL		mg/Kg	0.5	1	06-08-11 18:34	EPA 6010B
7440-47-3	Chromium	BRL		mg/Kg	1.0	1	06-08-11 18:34	EPA 6010B
7439-92-1	Lead	BRL		mg/Kg	5.0	1	06-08-11 18:34	EPA 6010B
7439-97-6	Mercury	BRL		mg/Kg	0.017	1	06-09-11 09:39	EPA 7471A
7440-02-0	Nickel	BRL		mg/Kg	5.0	1	06-08-11 18:34	EPA 6010B
7782-49-2	Selenium	BRL		mg/Kg	5.0	1	06-08-11 18:34	EPA 6010B
7440-22-4	Silver	BRL		mg/Kg	1.0	1	06-08-11 18:34	EPA 6010B
7440-28-0	Thallium	BRL		mg/Kg	5.0	1	06-08-11 18:34	EPA 6010B
7440-62-2	Vanadium	BRL		mg/Kg	1.0	1	06-08-11 18:34	EPA 6010B
7440-66-6	Zinc	BRL		mg/Kg	5.0	1	06-08-11 18:34	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

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

GROUNDWATER ANALYTICAL

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June 24, 2011

Mr. Parrish Smolcha
Goldman Environmental Consultants, Inc.
60 Brooks Drive
Braintree, MA 02184

LABORATORY REPORT

Project: **Boott Mills/911-1730**
Lab ID: **142740**
Received: **06-16-11**

Dear Parrish:

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/nfm

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project:	**Boott Mills/911-1730**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Goldman Environmental Consultants, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142740**	Lab Receipt:	**06-16-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-1	GEC-4		Aqueous	6/15/2011 15:55	EPA 8260B Volatile Organics with Oxygenates				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2021236	40 mL VOA Vial	Industrial	BX39070	HCL	R-6179A	05-03-11	n/a		
C2021224	40 mL VOA Vial	Industrial	BX39070	HCL	R-6179A	05-03-11	n/a		
C2021213	40 mL VOA Vial	Industrial	BX39070	HCL	R-6179A	05-03-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-2	GEC-1		Aqueous	6/15/2011 15:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C1149893	1 L Amber Glass	Proline	BX32060	None	n/a	n/a	11-19-08		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-3	GEC-2		Aqueous	6/15/2011 14:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C1052876	1 L Amber Glass	Proline	BX30817	None	n/a	n/a	11-19-08		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-4	GEC-1		Aqueous	6/15/2011 15:30	MA DEP EPH with PAHs by 8270C-Mod SIM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2029396	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		
C2029395	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-5	GEC-2		Aqueous	6/15/2011 14:00	MA DEP EPH with PAHs by 8270C-Mod SIM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2029391	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		
C2029390	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-6	GEC-3		Aqueous	6/15/2011 13:15	MA DEP EPH with PAHs by 8270C-Mod SIM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2029394	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		
C2029389	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-7	GEC-4		Aqueous	6/15/2011 15:55	MA DEP EPH with PAHs by 8270C-Mod SIM				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2029392	1 L Amber Glass	Proline	BX39335	H2SO4	R-6407C	06-10-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-8	GEC-1		Aqueous	6/15/2011 15:30	EPA 6010B/6020A/7470A MA DEP Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2035303	250 mL Plastic	Proline	BX39360	HNO3	R-6348C	06-14-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-9	GEC-2		Aqueous	6/15/2011 14:00	EPA 6010B/6020A/7470A MA DEP Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2035313	250 mL Plastic	Proline	BX39360	HNO3	R-6348C	06-14-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-10	GEC-3		Aqueous	6/15/2011 13:15	EPA 6010B/6020A/7470A MA DEP Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2013303	250 mL Plastic	Industrial	BX38772	HNO3	R-6348C	04-05-11	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**Boott Mills/911-1730**	Delivery:	**GWA Courier**	Temperature:	**2.0ºC**
Client:	**Goldman Environmental Consultants, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142740**	Lab Receipt:	**06-16-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-11	GEC-4		Aqueous	6/15/2011 13:15	EPA 6010B/6020A/7470A MA DEP Metals Dissolved				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2013364	250 mL Plastic	Industrial	BX38770	HNO3	R-6348C	04-05-11	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-12	GEC-3		Aqueous	6/15/2011 13:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C1076634	1 L Amber Glass	Proline	BX30413	None	n/a	n/a	05-07-08		
C1065352	1 L Amber Glass	Proline	BX29476	None	n/a	n/a	02-04-08		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142740-13	GEC-4		Aqueous	6/15/2011 15:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C1052878	1 L Amber Glass	Proline	BX30817	None	n/a	n/a	11-19-08		

GROUNDWATER ANALYTICAL

EPA Method 8260B
Volatile Organics by GC/MS

Field ID:	**GEC-4**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**40 mL VOA Vial**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**142740-1**	QC Batch ID:	**VM10-1343-W**
Sampled:	**06-15-11 15:55**	Instrument ID:	**MS-10 HP 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**5 mL**
Analyzed:	**06-22-11 10:35**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.50
74-87-3	Chloromethane	BRL		ug/L	0.50
75-01-4	Vinyl Chloride	BRL		ug/L	0.50
74-83-9	Bromomethane	BRL		ug/L	0.50
75-00-3	Chloroethane	BRL		ug/L	0.50
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.50
60-29-7	Diethyl Ether	BRL		ug/L	2.0
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.50
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5.0
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5.0
75-09-2	Methylene Chloride	BRL		ug/L	2.5
107-13-1	Acrylonitrile	BRL		ug/L	2.5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.50
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.50
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.50
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.50
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.50
78-93-3	2-Butanone (MEK)	BRL		ug/L	5.0
74-97-5	Bromochloromethane	BRL		ug/L	0.50
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5.0
67-66-3	Chloroform	BRL		ug/L	0.50
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.50
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.50
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.50
71-43-2	Benzene	BRL		ug/L	0.50
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.50
79-01-6	Trichloroethene	BRL		ug/L	0.50
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.50
74-95-3	Dibromomethane	BRL		ug/L	0.50
75-27-4	Bromodichloromethane	BRL		ug/L	0.50
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.40
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5.0
108-88-3	Toluene	BRL		ug/L	0.50
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.40
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.50
127-18-4	Tetrachloroethene	BRL		ug/L	0.50
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.50
591-78-6	2-Hexanone	BRL		ug/L	5.0
124-48-1	Dibromochloromethane	BRL		ug/L	0.50
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.50
108-90-7	Chlorobenzene	BRL		ug/L	0.50
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.50
100-41-4	Ethylbenzene	BRL		ug/L	0.50
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.50

GROUNDWATER ANALYTICAL

EPA Method 8260B (Continued)
Volatile Organics by GC/MS

Field ID:	**GEC-4**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**40 mL VOA Vial**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**HCl/ Cool**
Laboratory ID:	**142740-1**	QC Batch ID:	**VM10-1343-W**
Sampled:	**06-15-11 15:55**	Instrument ID:	**MS-10 HP 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**5 mL**
Analyzed:	**06-22-11 10:35**	Dilution Factor:	**1**
Analyst:	**LMG**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
95-47-6	*ortho*- Xylene	BRL		ug/L	0.50
100-42-5	Styrene	BRL		ug/L	0.50
75-25-2	Bromoform	BRL		ug/L	2.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.50
108-86-1	Bromobenzene	BRL		ug/L	0.50
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.50
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.50
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.50
95-49-8	2-Chlorotoluene	BRL		ug/L	0.50
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.50
106-43-4	4-Chlorotoluene	BRL		ug/L	0.50
98-06-6	*tert*- Butylbenzene	BRL		ug/L	0.50
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.50
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.50
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.50
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.50
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.50
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.50
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.50
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.50
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.50
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.50
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.50
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.50
637-92-3	Ethyl *tert*- butyl Ether (ETBE)	BRL		ug/L	0.50
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.50

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**114** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**112** %	70 - 130 %
Toluene-d_8	10	12	**117** %	70 - 130 %
4-Bromofluorobenzene	10	11	**113** %	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 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**GEC-1**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142740-02**	QC Batch ID:	**PB-2699-F**
Sampled:	**06-15-11 15:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Weight:	**950 mL**
Extracted:	**06-21-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 21:30**	Dilution Factor:	**1**
Analyzed:	**06-22-11 03:14**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	**3.5**	2C (3.1)*	ug/L	0.2
11097-69-1	Aroclor 1254	**1.6**	2C (1.3)*	ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery		QC Limits
First Column	Tetrachloro-*m*-xylene	0.21	0.19	**89** %		30 - 150 %
	Decachlorobiphenyl	0.21	0.06	**26** %	m	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	0.21	0.19	**90** %		30 - 150 %
	Decachlorobiphenyl	0.21	0.06	**26** %	m	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 3510C. 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.

* Confirmatory column quantification.

2C Concentration reported from second column.

m Recovery outside recommended limits due to sample matrix interference.

PRELIMINARY DATA

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**GEC-2**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142740-03**	QC Batch ID:	**PB-2699-F**
Sampled:	**06-15-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Weight:	**970 mL**
Extracted:	**06-21-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 21:30**	Dilution Factor:	**1**
Analyzed:	**06-22-11 03:38**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	**4.5**	1C (3.8)*	ug/L	0.2
11097-69-1	Aroclor 1254	**3.3**	2C (3.1)*	ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery		QC Limits
First Column	Tetrachloro-*m*-xylene	0.21	0.19	**94** %		30 - 150 %
	Decachlorobiphenyl	0.21	0.05	**22** %	m	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	0.21	0.19	**92** %		30 - 150 %
	Decachlorobiphenyl	0.21	0.04	**22** %	m	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 3510C. 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.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

m Recovery outside recommended limits due to sample matrix interference.

PRELIMINARY DATA

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**GEC-3**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142740-12**	QC Batch ID:	**PB-2699-F**
Sampled:	**06-15-11 13:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Weight:	**870 mL**
Extracted:	**06-21-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 21:30**	Dilution Factor:	**1**
Analyzed:	**06-22-11 04:01**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.23	0.21	**93** %	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.14	**60** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.23	0.21	**91** %	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.14	**61** %	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 3510C. 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

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**GEC-4**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142740-13**	QC Batch ID:	**PB-2699-F**
Sampled:	**06-15-11 15:55**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Weight:	**850 mL**
Extracted:	**06-21-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 21:30**	Dilution Factor:	**1**
Analyzed:	**06-22-11 04:25**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.24	0.23	**98** %	30 - 150 %
Column	Decachlorobiphenyl	0.24	0.19	**79** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.24	0.23	**96** %	30 - 150 %
Column	Decachlorobiphenyl	0.24	0.19	**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 3510C. 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

Massachusetts DEP EPH Method
Extractable Petroleum Hydrocarbons by GC/FID

Field ID:	**GEC-1**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-4**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 15:30**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**900 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-23-11 03:54**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**06-23-11 04:37**	Aromatic Dilution Factor:	**1**
Analyst:	**JJT**		

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 †	**190**		ug/L	110
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	**160**		ug/L	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	170		ug/L	110

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	44	47	**105** %	40 - 140 %
	2-Bromonaphthalene	44	45	**102** %	40 - 140 %
Extraction:	Chloro-octadecane	44	33	**75** %	40 - 140 %
	ortho-Terphenyl	44	39	**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

EPA Method 8270C (Modified)
MA DEP EPH Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**GEC-1**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-04**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 15:30**	Instrument ID:	**MS-6 HP 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**900 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed:	**06-23-11 12:28**	Dilution Factor:	**1**
Analyst:	**MJB**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	0.6
91-57-6	2-Methylnaphthalene	BRL		ug/L	0.6
208-96-8	Acenaphthylene	BRL		ug/L	0.6
83-32-9	Acenaphthene	BRL		ug/L	0.6
86-73-7	Fluorene	BRL		ug/L	0.6
85-01-8	Phenanthrene	**1.1**		ug/L	0.6
120-12-7	Anthracene	BRL		ug/L	0.6
206-44-0	Fluoranthene	**2.1**		ug/L	0.6
129-00-0	Pyrene	**2.0**		ug/L	0.6
56-55-3	Benzo[a]anthracene	**1.0**		ug/L	0.1
218-01-9	Chrysene	**0.9**		ug/L	0.1
205-99-2	Benzo[b]fluoranthene	**1.3**		ug/L	0.1
207-08-9	Benzo[k]fluoranthene	**0.5**		ug/L	0.1
50-32-8	Benzo[a]pyrene	**1.1**		ug/L	0.1
193-39-5	Indeno[1,2,3-c,d]pyrene	**0.9**		ug/L	0.1
53-70-3	Dibenzo[a,h]anthracene	**0.2**		ug/L	0.1
191-24-2	Benzo[g,h,i]perylene	**0.7**		ug/L	0.1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho- Terphenyl	44	33	**74** %	40 - 140 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method.
Method protocol modified to include acidification and the surrogate compound in accordance with the MA DEP Method for the Determination of Extractable Petroleum Hydrocarbons.
Sample extraction performed by EPA Method 3510C.

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:	**GEC-2**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-5**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 14:00**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**870 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-23-11 05:22**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**06-23-11 06:05**	Aromatic Dilution Factor:	**1**
Analyst:	**JJT**		

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 †	**150**		ug/L	110
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	**130**		ug/L	110
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	140		ug/L	110

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	46	48	**105** %	40 - 140 %
	2-Bromonaphthalene	46	46	**101** %	40 - 140 %
Extraction:	Chloro-octadecane	46	35	**76** %	40 - 140 %
	ortho-Terphenyl	46	43	**94** %	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

EPA Method 8270C (Modified)
MA DEP EPH Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**GEC-2**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-05**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 14:00**	Instrument ID:	**MS-6 HP 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**870 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed:	**06-23-11 13:09**	Dilution Factor:	**1**
Analyst:	**MJB**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	0.6
91-57-6	2-Methylnaphthalene	BRL		ug/L	0.6
208-96-8	Acenaphthylene	BRL		ug/L	0.6
83-32-9	Acenaphthene	BRL		ug/L	0.6
86-73-7	Fluorene	BRL		ug/L	0.6
85-01-8	Phenanthrene	BRL		ug/L	0.6
120-12-7	Anthracene	BRL		ug/L	0.6
206-44-0	Fluoranthene	**1.3**		ug/L	0.6
129-00-0	Pyrene	**1.2**		ug/L	0.6
56-55-3	Benzo[a]anthracene	**0.7**		ug/L	0.1
218-01-9	Chrysene	**0.6**		ug/L	0.1
205-99-2	Benzo[b]fluoranthene	**0.9**		ug/L	0.1
207-08-9	Benzo[k]fluoranthene	**0.4**		ug/L	0.1
50-32-8	Benzo[a]pyrene	**0.8**		ug/L	0.1
193-39-5	Indeno[1,2,3-c,d]pyrene	**0.6**		ug/L	0.1
53-70-3	Dibenzo[a,h]anthracene	**0.1**		ug/L	0.1
191-24-2	Benzo[g,h,i]perylene	**0.5**		ug/L	0.1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho- Terphenyl	46	34	**74** %	40 - 140 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method.
Method protocol modified to include acidification and the surrogate compound in accordance
with the MA DEP Method for the Determination of Extractable Petroleum Hydrocarbons.
Sample extraction performed by EPA Method 3510C.

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:	**GEC-3**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-6**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 13:15**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**880 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-23-11 06:50**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**06-23-11 07:33**	Aromatic Dilution Factor:	**1**
Analyst:	**JJT**		

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

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	45	51	**112** %	40 - 140 %
	2-Bromonaphthalene	45	49	**108** %	40 - 140 %
Extraction:	Chloro-octadecane	45	36	**79** %	40 - 140 %
	ortho-Terphenyl	45	43	**95** %	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

EPA Method 8270C (Modified)
MA DEP EPH Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**GEC-3**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-06**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 13:15**	Instrument ID:	**MS-6 HP 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**880 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed:	**06-23-11 13:50**	Dilution Factor:	**1**
Analyst:	**MJB**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	0.6
91-57-6	2-Methylnaphthalene	BRL		ug/L	0.6
208-96-8	Acenaphthylene	BRL		ug/L	0.6
83-32-9	Acenaphthene	BRL		ug/L	0.6
86-73-7	Fluorene	BRL		ug/L	0.6
85-01-8	Phenanthrene	BRL		ug/L	0.6
120-12-7	Anthracene	BRL		ug/L	0.6
206-44-0	Fluoranthene	BRL		ug/L	0.6
129-00-0	Pyrene	BRL		ug/L	0.6
56-55-3	Benzo[a]anthracene	**0.2**		ug/L	0.1
218-01-9	Chrysene	**0.2**		ug/L	0.1
205-99-2	Benzo[b]fluoranthene	**0.3**		ug/L	0.1
207-08-9	Benzo[k]fluoranthene	**0.2**		ug/L	0.1
50-32-8	Benzo[a]pyrene	**0.3**		ug/L	0.1
193-39-5	Indeno[1,2,3-c,d]pyrene	**0.2**		ug/L	0.1
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	0.1
191-24-2	Benzo[g,h,i]perylene	**0.2**		ug/L	0.1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho- Terphenyl	45	37	**80** %	40 - 140 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method.
Method protocol modified to include acidification and the surrogate compound in accordance with the MA DEP Method for the Determination of Extractable Petroleum Hydrocarbons.
Sample extraction performed by EPA Method 3510C.

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:	**GEC-4**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-7**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 15:55**	Instrument ID:	**GC-9 Agilent 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**840 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed (AL):	**06-23-11 08:18**	Aliphatic Dilution Factor:	**1**
Analyzed (AR):	**06-23-11 09:01**	Aromatic Dilution Factor:	**1**
Analyst:	**JJT**		

EPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C9 to n-C18 Aliphatic Hydrocarbons †	BRL		ug/L	120
n-C19 to n-C36 Aliphatic Hydrocarbons †	BRL		ug/L	120
n-C11 to n-C22 Aromatic Hydrocarbons † ◊	BRL		ug/L	120
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons †	BRL		ug/L	120

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
Fractionation:	2-Fluorobiphenyl	48	49	**102** %	40 - 140 %
	2-Bromonaphthalene	48	50	**104** %	40 - 140 %
Extraction:	Chloro-octadecane	48	38	**80** %	40 - 140 %
	ortho-Terphenyl	48	43	**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

EPA Method 8270C (Modified)
MA DEP EPH Polynuclear Aromatic Hydrocarbons by GC/MS-SIM

Field ID:	**GEC-4**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**1 L Amber Glass**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**H2SO4/ Cool**
Laboratory ID:	**142740-07**	QC Batch ID:	**EP-2425-F**
Sampled:	**06-15-11 15:55**	Instrument ID:	**MS-6 HP 6890**
Received:	**06-16-11 18:00**	Sample Volume:	**840 mL**
Extracted:	**06-22-11 09:30**	Final Volume:	**1 mL**
Analyzed:	**06-23-11 14:31**	Dilution Factor:	**1**
Analyst:	**MJB**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	0.6
91-57-6	2-Methylnaphthalene	BRL		ug/L	0.6
208-96-8	Acenaphthylene	BRL		ug/L	0.6
83-32-9	Acenaphthene	BRL		ug/L	0.6
86-73-7	Fluorene	BRL		ug/L	0.6
85-01-8	Phenanthrene	BRL		ug/L	0.6
120-12-7	Anthracene	BRL		ug/L	0.6
206-44-0	Fluoranthene	BRL		ug/L	0.6
129-00-0	Pyrene	BRL		ug/L	0.6
56-55-3	Benzo[a]anthracene	BRL		ug/L	0.1
218-01-9	Chrysene	BRL		ug/L	0.1
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	0.1
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	0.1
50-32-8	Benzo[a]pyrene	BRL		ug/L	0.1
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	0.1
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	0.1
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	0.1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho- Terphenyl	48	36	**75** %	40 - 140 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method.
Method protocol modified to include acidification and the surrogate compound in accordance
with the MA DEP Method for the Determination of Extractable Petroleum Hydrocarbons.
Sample extraction performed by EPA Method 3510C.

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

Trace Metals

Field ID:	**GEC-1**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Plastic**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**142740-8**	Preserved:	**06-16-11 18:00**
Sampled:	**06-15-11 15:30**	Filtered:	**06-16-11 18:00**
Received:	**06-16-11 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6020A[1]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICPMS-1 ELAN 9000	LMS
EPA 6010B[2]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICP-1 PE 3000	LMS
EPA 7470A[3]	MP-2405-W	EPA 7470A	06-22-11 00:00	25 mL	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Dissolved	BRL		mg/L	0.006	1	06-22-11 19:02	EPA 6020A[1]
7440-38-2	Arsenic, Dissolved	BRL		mg/L	0.003	1	06-22-11 19:02	EPA 6020A[1]
7440-39-3	Barium, Dissolved	**0.1**		mg/L	0.05	1	06-23-11 13:13	EPA 6010B[2]
7440-41-7	Beryllium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:13	EPA 6010B[2]
7440-43-9	Cadmium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:13	EPA 6010B[2]
7440-47-3	Chromium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:13	EPA 6010B[2]
7439-92-1	Lead, Dissolved	**0.012**		mg/L	0.005	1	06-23-11 13:13	EPA 6010B[2]
7439-97-6	Mercury, Dissolved	BRL		mg/L	0.0002	1	06-23-11 15:25	EPA 7470A[3]
7440-02-0	Nickel, Dissolved	BRL		mg/L	0.04	1	06-23-11 13:13	EPA 6010B[2]
7782-49-2	Selenium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:13	EPA 6010B[2]
7440-22-4	Silver, Dissolved	BRL		mg/L	0.007	1	06-23-11 13:13	EPA 6010B[2]
7440-28-0	Thallium, Dissolved	BRL		mg/L	0.002	1	06-22-11 19:02	EPA 6020A[1]
7440-62-2	Vanadium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:13	EPA 6010B[2]
7440-66-6	Zinc, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:13	EPA 6010B[2]

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:	**GEC-2**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Plastic**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**142740-9**	Preserved:	**06-16-11 18:00**
Sampled:	**06-15-11 14:00**	Filtered:	**06-16-11 18:00**
Received:	**06-16-11 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6020A[1]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICPMS-1 ELAN 9000	LMS
EPA 6010B[2]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICP-1 PE 3000	LMS
EPA 7470A[3]	MP-2405-W	EPA 7470A	06-22-11 00:00	25 mL	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Dissolved	BRL		mg/L	0.006	1	06-22-11 19:02	EPA 6020A[1]
7440-38-2	Arsenic, Dissolved	BRL		mg/L	0.003	1	06-22-11 19:02	EPA 6020A[1]
7440-39-3	Barium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:28	EPA 6010B[2]
7440-41-7	Beryllium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:28	EPA 6010B[2]
7440-43-9	Cadmium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:28	EPA 6010B[2]
7440-47-3	Chromium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:28	EPA 6010B[2]
7439-92-1	Lead, Dissolved	BRL		mg/L	0.005	1	06-23-11 13:28	EPA 6010B[2]
7439-97-6	Mercury, Dissolved	BRL		mg/L	0.0002	1	06-23-11 15:35	EPA 7470A[3]
7440-02-0	Nickel, Dissolved	BRL		mg/L	0.04	1	06-23-11 13:28	EPA 6010B[2]
7782-49-2	Selenium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:28	EPA 6010B[2]
7440-22-4	Silver, Dissolved	BRL		mg/L	0.007	1	06-23-11 13:28	EPA 6010B[2]
7440-28-0	Thallium, Dissolved	BRL		mg/L	0.002	1	06-22-11 19:02	EPA 6020A[1]
7440-62-2	Vanadium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:28	EPA 6010B[2]
7440-66-6	Zinc, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:28	EPA 6010B[2]

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:	**GEC-3**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Plastic**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**142740-10**	Preserved:	**06-15-11 13:15**
Sampled:	**06-15-11 13:15**	Filtered:	**06-15-11 13:15**
Received:	**06-16-11 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6020A[1]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICPMS-1 ELAN 9000	LMS
EPA 6010B[2]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICP-1 PE 3000	LMS
EPA 7470A[3]	MP-2405-W	EPA 7470A	06-22-11 00:00	25 mL	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Dissolved	BRL		mg/L	0.006	1	06-22-11 19:02	EPA 6020A[1]
7440-38-2	Arsenic, Dissolved	BRL		mg/L	0.003	1	06-22-11 19:02	EPA 6020A[1]
7440-39-3	Barium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:32	EPA 6010B[2]
7440-41-7	Beryllium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:32	EPA 6010B[2]
7440-43-9	Cadmium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:32	EPA 6010B[2]
7440-47-3	Chromium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:32	EPA 6010B[2]
7439-92-1	Lead, Dissolved	BRL		mg/L	0.005	1	06-23-11 13:32	EPA 6010B[2]
7439-97-6	Mercury, Dissolved	BRL		mg/L	0.0002	1	06-23-11 15:38	EPA 7470A[3]
7440-02-0	Nickel, Dissolved	BRL		mg/L	0.04	1	06-23-11 13:32	EPA 6010B[2]
7782-49-2	Selenium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:32	EPA 6010B[2]
7440-22-4	Silver, Dissolved	BRL		mg/L	0.007	1	06-23-11 13:32	EPA 6010B[2]
7440-28-0	Thallium, Dissolved	BRL		mg/L	0.002	1	06-22-11 19:02	EPA 6020A[1]
7440-62-2	Vanadium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:32	EPA 6010B[2]
7440-66-6	Zinc, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:32	EPA 6010B[2]

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:	**GEC-4**	Matrix:	**Aqueous**
Project:	**Boott Mills/911-1730**	Container:	**250 mL Plastic**
Client:	**Goldman Environmental Consultants, Inc.**	Preservation:	**HNO3 / Cool**
Laboratory ID:	**142740-11**	Preserved:	**06-15-11 13:15**
Sampled:	**06-15-11 13:15**	Filtered:	**06-15-11 13:15**
Received:	**06-16-11 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6020A[1]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICPMS-1 ELAN 9000	LMS
EPA 6010B[2]	MB-4459-W	EPA 3010A	06-22-11 00:00	50 mL	ICP-1 PE 3000	LMS
EPA 7470A[3]	MP-2405-W	EPA 7470A	06-22-11 00:00	25 mL	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Dissolved	BRL		mg/L	0.006	1	06-22-11 19:02	EPA 6020A[1]
7440-38-2	Arsenic, Dissolved	BRL		mg/L	0.003	1	06-22-11 19:02	EPA 6020A[1]
7440-39-3	Barium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:36	EPA 6010B[2]
7440-41-7	Beryllium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:36	EPA 6010B[2]
7440-43-9	Cadmium, Dissolved	BRL		mg/L	0.004	1	06-23-11 13:36	EPA 6010B[2]
7440-47-3	Chromium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:36	EPA 6010B[2]
7439-92-1	Lead, Dissolved	BRL		mg/L	0.005	1	06-23-11 13:36	EPA 6010B[2]
7439-97-6	Mercury, Dissolved	BRL		mg/L	0.0002	1	06-23-11 15:41	EPA 7470A[3]
7440-02-0	Nickel, Dissolved	BRL		mg/L	0.04	1	06-23-11 13:36	EPA 6010B[2]
7782-49-2	Selenium, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:36	EPA 6010B[2]
7440-22-4	Silver, Dissolved	BRL		mg/L	0.007	1	06-23-11 13:36	EPA 6010B[2]
7440-28-0	Thallium, Dissolved	BRL		mg/L	0.002	1	06-22-11 19:02	EPA 6020A[1]
7440-62-2	Vanadium, Dissolved	BRL		mg/L	0.01	1	06-23-11 13:36	EPA 6010B[2]
7440-66-6	Zinc, Dissolved	BRL		mg/L	0.05	1	06-23-11 13:36	EPA 6010B[2]

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.

Version 10-2010

GROUNDWATER ANALYTICAL

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CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: Boott Mills	Firm: GEC
Project Number: 911-1730	Address: 60 Brooks Dr.
Sampler Name: MW (Matt Wilson)	City / State / Zip:: Braintree, MA 02184
Project Manager: Parrish Smolcha	Telephone: (781) 356-9140

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: PSmolcha
- ☐ Please FAX to: _____

BILLING

- ☒ Purchase Order No.: 911-1730
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ TIC Search

Volatiles: SDWA ☐ 524.2; NPDES ☐ 624; RCRA/21E ☐ 8260B TCL-MTBE ☐ 8260B; ☐ 602-MTBE; ☐ 8260B Aromatics; ☐ 8260B Halocarbons; ☐ 8021B Vermont

Semivolatiles: ☐ Acid Only; ☐ B/N Only; ☐ TIC Search; SDWA ☐ 525.2; NPDES ☐ 625; RCRA/21E ☐ 8270C

Pest/Herb/PCBs Extractable: SDWA ☐ 505 ☐ 508; NPDES ☐ 608 Pesticides; RCRA/21E ☐ 8082A Pesticides; ☐ 8082A PCBs

Pest/Herb/PCBs Vol.: SDWA ☐ 531.1; ☐ 515.3; ☐ 504.1 EDB/DBCP; NPDES ☐ 615; ☐ 8151A Herbicides; ☐ 8011 EDB/DBCP

Metals: ☐ Specify For Water Samples; ☐ Total ☐ Dissolved; SDWA ☐ Lead and Copper; NPDES ☐ 13 Priority Pollutant; RCRA/21E ☐ 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 C arbon 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 ☐ 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 ☐ Chloride ☐ Fluoride ☐ Sulfate; ☐ Dissolved Phosphorus; ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as NO3/NO2/TKN) ☐ I.I. Total P; ☐ Oil & Grease; ☐ COD ☐ TOC; ☐ BOD ☐ CBOD ☐ TTDS ☐ 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	Type	Container(s) NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Plastic	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	Filtered NO	LABORATORY NUMBER (Lab Use Only)
6/15	1530	GEC-1	GROUNDWATER	GRAB	2						✓							✓					✓		
					2						✓											✓	✓		
					1							✓				✓									
	1400	GEC-2			2						✓							✓					✓		
					2						✓											✓	✓		
	1315	GEC-3			2						✓							✓					✓		
					2						✓											✓	✓		
					1							✓				✓						✓			
	1555	GEC-4			1						✓							✓					✓		
					1						✓											✓	✓		
			✓	✓	1							✓					✓						✓		
			✓	✓	3	✓										✓									

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:
Matthew Wil	6/16/11	0730	GEC cold storage	☐ Ice ☐ Refrigerated ☒ 2-6 C Recommended 2.0°C
Relinquished by:	**Date**	**Time**	**Received by:**	**Container Count:**
Matthew Wil	6/16/11	4:58	Alan Maddigan	
Relinquished by:	**Date**	**Time**	**Received by Laboratory:**	**Shipping/Airbill Number:**
Alan Maddigan	6/16/11	18:00		

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

Category: **Metals**
Matrix: **Aqueous**
Units: **mg/L**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 6020A	MB-4459-WL	EPA 3010A	06-22-11 00:00	06-22-11 00:00	ICPMS-1 ELAN 9000	PD
LCS	EPA 6010B	MB-4459-WL	EPA 3010A	06-22-11 00:00	06-23-11 13:00	ICP-1 PE 3000	PD
LCS	EPA 7470A	MP-2405-WL	EPA 7470A	06-22-11 00:00	06-23-11 15:18	CVAA-1 PE FIMS	LMS
LCSD	EPA 6020A	MB-4459-WL	EPA 3010A	06-22-11 00:00	06-23-11 15:22	ICPMS-1 ELAN 9000	PD
LCSD	EPA 6010B	MB-4459-WL	EPA 3010A	06-22-11 00:00	06-23-11 13:07	ICP-1 PE 3000	PD
LCSD	EPA 7470A	MP-2405-WL	EPA 7470A	06-22-11 00:00	06-23-11 15:22	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-36-0	Antimony	5.0	4.3	**86%**	5.0	4.4	**87%**	**1 %**	80-120 %	20 %	EPA 6020A
7440-38-2	Arsenic	5.0	5.2	**105%**	5.0	5.3	**105%**	**0 %**	80-120 %	20 %	EPA 6020A
7440-39-3	Barium	5.0	4.9	**98%**	5.0	4.9	**97%**	**1 %**	80-120 %	20 %	EPA 6010B
7440-41-7	Beryllium	1.0	0.99	**99%**	1.0	1.00	**100%**	**1 %**	80-120 %	20 %	EPA 6010B
7440-43-9	Cadmium	1.0	1.0	**101%**	1.0	1.0	**102%**	**0 %**	80-120 %	20 %	EPA 6010B
7440-47-3	Chromium	1.0	1.0	**101%**	1.0	1.0	**102%**	**0 %**	80-120 %	20 %	EPA 6010B
7439-92-1	Lead	5.0	5.1	**102%**	5.0	5.2	**103%**	**0 %**	80-120 %	20 %	EPA 6010B
7439-97-6	Mercury	0.0010	0.0011	**105%**	0.0010	0.0011	**112%**	**3 %**	80-120 %	20 %	EPA 7470A
7440-02-0	Nickel	1.0	1.0	**104%**	1.0	1.1	**105%**	**0 %**	80-120 %	20 %	EPA 6010B
7782-49-2	Selenium	5.0	4.8	**96%**	5.0	4.9	**97%**	**1 %**	80-120 %	20 %	EPA 6010B
7440-22-4	Silver	1.0	1.0	**103%**	1.0	1.0	**103%**	**0 %**	80-120 %	20 %	EPA 6010B
7440-28-0	Thallium	5.0	4.7	**93%**	5.0	4.7	**93%**	**0 %**	80-120 %	20 %	EPA 6020A
7440-62-2	Vanadium	1.0	1.0	**102%**	1.0	1.0	**104%**	**1 %**	80-120 %	20 %	EPA 6010B
7440-66-6	Zinc	1.0	1.0	**99%**	1.0	1.0	**101%**	**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 6020A	MB-4459-WB	EPA 3010A	06-22-11 00:00	50 mL	ICPMS-1 ELAN 9000	PD
EPA 6010B	MB-4459-WB	EPA 3010A	06-22-11 00:00	50 mL	ICP-1 PE 3000	PD
EPA 7470A	MP-2405-WB	EPA 7470A	06-22-11 00:00	25 mL	CVAA-1 PE FIMS	LMS

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony	BRL		mg/L	0.003	1	06-22-11 18:47	EPA 6020A
7440-38-2	Arsenic	BRL		mg/L	0.005	1	06-22-11 18:47	EPA 6020A
7440-39-3	Barium	BRL		mg/L	0.05	1	06-23-11 12:56	EPA 6010B
7440-41-7	Beryllium	BRL		mg/L	0.004	1	06-23-11 12:56	EPA 6010B
7440-43-9	Cadmium	BRL		mg/L	0.004	1	06-23-11 12:56	EPA 6010B
7440-47-3	Chromium	BRL		mg/L	0.01	1	06-23-11 12:56	EPA 6010B
7439-92-1	Lead	BRL		mg/L	0.005	1	06-23-11 12:56	EPA 6010B
7439-97-6	Mercury	BRL		mg/L	0.0002	1	06-23-11 15:18	EPA 7470A
7440-02-0	Nickel	BRL		mg/L	0.04	1	06-23-11 12:56	EPA 6010B
7782-49-2	Selenium	BRL		mg/L	0.05	1	06-23-11 12:56	EPA 6010B
7440-22-4	Silver	BRL		mg/L	0.007	1	06-23-11 12:56	EPA 6010B
7440-28-0	Thallium	BRL		mg/L	0.001	1	06-22-11 18:47	EPA 6020A
7440-62-2	Vanadium	BRL		mg/L	0.01	1	06-23-11 12:56	EPA 6010B
7440-66-6	Zinc	BRL		mg/L	0.05	1	06-23-11 12:56	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:	**MA DEP EPH Method**	Instrument ID:	**GC-9 Agilent 6890**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-2425-F**	Extracted:	**06-22-11 09:30**	Extracted:	**06-22-11 09:30**
Matrix:	**Aqueous**	Analyzed (AL):	**06-22-11 23:30**	Analyzed (AL):	**06-23-11 00:58**
Units:	**ug/L**	Analyzed (AR):	**06-23-11 00:13**	Analyzed (AR):	**06-23-11 01:41**
		Analyst:	**JJT**	Analyst:	**JJT**

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	28	**56** %	50	25	**49** %	**12** %	30 - 140 %	25%
124-18-5	*n*-Decane (C_{10})	50	32	**64** %	50	29	**57** %	**12** %	40 - 140 %	25%
112-40-3	*n*-Dodecane (C_{12})	50	34	**68** %	50	32	**63** %	**8** %	40 - 140 %	25%
629-59-4	*n*-Tetradecane (C_{14})	50	35	**70** %	50	36	**72** %	**3** %	40 - 140 %	25%
544-76-3	*n*-Hexadecane (C_{16})	50	38	**76** %	50	41	**82** %	**8** %	40 - 140 %	25%
593-45-3	*n*-Octadecane (C_{18})	50	40	**81** %	50	44	**87** %	**7** %	40 - 140 %	25%
n/a	*n*-C9 to *n*-C18 Group	300	210	**69** %	300	210	**69** %	**1** %	40 - 140 %	25%
629-92-5	*n*-Nonadecane (C_{19})	50	41	**81** %	50	44	**88** %	**8** %	40 - 140 %	25%
112-95-8	*n*-Eicosane (C_{20})	50	40	**80** %	50	43	**87** %	**8** %	40 - 140 %	25%
629-97-0	*n*-Docosane (C_{22})	50	37	**73** %	50	40	**79** %	**8** %	40 - 140 %	25%
646-31-1	*n*-Tetracosane (C_{24})	50	37	**74** %	50	40	**80** %	**8** %	40 - 140 %	25%
630-01-3	*n*-Hexacosane (C_{26})	50	36	**73** %	50	40	**79** %	**8** %	40 - 140 %	25%
630-02-4	*n*-Octacosane (C_{28})	50	36	**71** %	50	39	**77** %	**8** %	40 - 140 %	25%
638-68-6	*n*-Triacontane (C_{30})	50	35	**69** %	50	38	**75** %	**8** %	40 - 140 %	25%
630-06-8	*n*-Hexatriacontane (C_{36})	50	31	**61** %	50	34	**67** %	**10** %	40 - 140 %	25%
n/a	*n*-C19 to *n*-C36 Group	400	290	**73** %	400	320	**79** %	**8** %	40 - 140 %	25%
91-20-3	Naphthalene	50	39	**79** %	50	39	**78** %	**1** %	40 - 140 %	25%
91-57-6	2-Methylnaphthalene	50	41	**83** %	50	41	**81** %	**2** %	40 - 140 %	25%
208-96-8	Acenaphthylene	50	45	**90** %	50	46	**91** %	**1** %	40 - 140 %	25%
83-32-9	Acenaphthene	50	42	**84** %	50	42	**85** %	**1** %	40 - 140 %	25%
86-73-7	Fluorene	50	44	**87** %	50	44	**88** %	**1** %	40 - 140 %	25%
85-01-8	Phenanthrene	50	48	**97** %	50	49	**98** %	**1** %	40 - 140 %	25%
120-12-7	Anthracene	50	49	**98** %	50	49	**99** %	**1** %	40 - 140 %	25%
206-44-0	Fluoranthene	50	48	**97** %	50	49	**98** %	**2** %	40 - 140 %	25%
129-00-0	Pyrene	50	49	**99** %	50	50	**100** %	**1** %	40 - 140 %	25%
56-55-3	Benzo[a]anthracene	50	42	**85** %	50	42	**85** %	**0** %	40 - 140 %	25%
218-01-9	Chrysene	50	51	**102** %	50	51	**103** %	**0** %	40 - 140 %	25%
205-99-2	Benzo[b]fluoranthene	50	45	**89** %	50	44	**89** %	**0** %	40 - 140 %	25%
207-08-9	Benzo[k]fluoranthene	50	47	**95** %	50	48	**95** %	**0** %	40 - 140 %	25%
50-32-8	Benzo[a]pyrene	50	48	**97** %	50	48	**97** %	**0** %	40 - 140 %	25%
193-39-5	Indeno[1,2,3-c,d]pyrene	50	45	**89** %	50	45	**89** %	**0** %	40 - 140 %	25%
53-70-3	Dibenzo[a,h]anthracene	50	46	**91** %	50	45	**91** %	**1** %	40 - 140 %	25%
191-24-2	Benzo[g,h,i]perylene	50	44	**89** %	50	44	**88** %	**1** %	40 - 140 %	25%
n/a	PAH Group	850	780	**91** %	850	780	**91** %	**0** %	40 - 140 %	25%

QC Surrogate Compound		Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Fractionation:	2-Fluorobiphenyl	40	41	**102** %	40	42	**105** %		40 - 140 %
	2-Bromonaphthalene	40	41	**104** %	40	43	**106** %		40 - 140 %
Extraction:	Chloro-octadecane	40	29	**74** %	40	32	**80** %		40 - 140 %
	ortho-Terphenyl	40	37	**93** %	40	37	**92** %		40 - 140 %

Fractionation Breakthrough Evaluation						QC Limits
91-20-3	Naphthalene	LCS	**0** %	LCSD	**0** %	5%
91-57-6	2-Methylnaphthalene	LCS	**1** %	LCSD	**1** %	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.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**MA DEP EPH**	Instrument ID:	**GC-9 Agilent 6890**
QC Batch ID:	**EP-2425-F**	Extracted:	**06-22-11 09:30**
Matrix:	**Aqueous**	Analyzed (AL):	**06-23-11 02:25**
		Analyzed (AR):	**06-23-11 03:09**
		Analyst:	**JJT**

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	42	**105** %	40 - 140 %
	2-Bromonaphthalene	40	40	**100** %	40 - 140 %
Extraction:	Chloro-octadecane	40	34	**84** %	40 - 140 %
	ortho-Terphenyl	40	39	**96** %	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:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1343-W**	Analyzed:	**06-22-11 08:01**	Analyzed:	**06-22-11 08:34**
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	7.6	**76** %	10	7.1	**71** %	**7** %	70 - 130 %	20%
74-87-3	Chloromethane	10	11	**112** %	10	10	**103** %	**8** %	70 - 130 %	20%
75-01-4	Vinyl Chloride	10	11	**113** %	10	9.5	**95** %	**17** %	70 - 130 %	20%
74-83-9	Bromomethane	10	8.6	**86** %	10	8.5	**85** %	**2** %	70 - 130 %	20%
75-00-3	Chloroethane	10	9.8	**98** %	10	9.4	**94** %	**4** %	70 - 130 %	20%
75-69-4	Trichlorofluoromethane	10	8.2	**82** %	10	7.7	**77** %	**6** %	70 - 130 %	20%
60-29-7	Diethyl Ether	20	16	**79** %	20	16	**81** %	**2** %	70 - 130 %	20%
75-35-4	1,1-Dichloroethene	10	9.4	**94** %	10	8.8	**88** %	**6** %	70 - 130 %	20%
76-13-1	1,1,2-Trichlorotrifluoroethane	20	16	**78** %	20	15	**73** %	**7** %	70 - 130 %	20%
67-64-1	Acetone	20	15	**76** %	20	15	**77** %	**1** %	70 - 130 %	20%
75-15-0	Carbon Disulfide	20	14	**72** %	20	13	**66** % q	**8** %	70 - 130 %	20%
75-09-2	Methylene Chloride	10	12	**124** %	10	13	**125** %	**1** %	70 - 130 %	20%
107-13-1	Acrylonitrile	10	11	**108** %	10	11	**108** %	**0** %	70 - 130 %	20%
156-60-5	*trans*-1,2-Dichloroethene	10	9.6	**96** %	10	9.4	**94** %	**2** %	70 - 130 %	20%
1634-04-4	Methyl *tert*-butyl Ether (MTBE)	10	8.7	**87** %	10	8.7	**87** %	**0** %	70 - 130 %	20%
75-34-3	1,1-Dichloroethane	10	10	**101** %	10	9.8	**98** %	**3** %	70 - 130 %	20%
594-20-7	2,2-Dichloropropane	10	10	**100** %	10	9.6	**96** %	**4** %	70 - 130 %	20%
156-59-2	*cis*-1,2-Dichloroethene	10	10	**100** %	10	9.6	**96** %	**3** %	70 - 130 %	20%
78-93-3	2-Butanone (MEK)	20	16	**82** %	20	17	**83** %	**2** %	70 - 130 %	20%
74-97-5	Bromochloromethane	10	9.0	**90** %	10	8.9	**89** %	**0** %	70 - 130 %	20%
109-99-9	Tetrahydrofuran (THF)	20	19	**97** %	20	19	**96** %	**1** %	70 - 130 %	20%
67-66-3	Chloroform	10	9.3	**93** %	10	9.0	**90** %	**4** %	70 - 130 %	20%
71-55-6	1,1,1-Trichloroethane	10	9.6	**96** %	10	9.1	**91** %	**5** %	70 - 130 %	20%
56-23-5	Carbon Tetrachloride	10	9.3	**93** %	10	9.0	**90** %	**4** %	70 - 130 %	20%
563-58-6	1,1-Dichloropropene	10	9.8	**98** %	10	9.4	**94** %	**4** %	70 - 130 %	20%
71-43-2	Benzene	10	10	**101** %	10	9.6	**96** %	**5** %	70 - 130 %	20%
107-06-2	1,2-Dichloroethane	10	9.3	**93** %	10	9.3	**93** %	**0** %	70 - 130 %	20%
79-01-6	Trichloroethene	10	9.4	**94** %	10	9.0	**90** %	**4** %	70 - 130 %	20%
78-87-5	1,2-Dichloropropane	10	11	**107** %	10	10	**101** %	**6** %	70 - 130 %	20%
74-95-3	Dibromomethane	10	9.3	**93** %	10	8.9	**89** %	**5** %	70 - 130 %	20%
75-27-4	Bromodichloromethane	10	9.6	**96** %	10	9.1	**91** %	**5** %	70 - 130 %	20%
123-91-1	1,4-Dioxane	200	220	**108** %	200	260	**128** %	**17** %	70 - 130 %	20%
10061-01-5	*cis*-1,3-Dichloropropene	10	9.6	**96** %	10	9.2	**92** %	**4** %	70 - 130 %	20%
108-10-1	4-Methyl-2-Pentanone (MIBK)	20	19	**93** %	20	19	**93** %	**1** %	70 - 130 %	20%
108-88-3	Toluene	10	10	**101** %	10	9.6	**96** %	**5** %	70 - 130 %	20%
10061-02-6	*trans*-1,3-Dichloropropene	10	9.5	**95** %	10	9.2	**92** %	**4** %	70 - 130 %	20%
79-00-5	1,1,2-Trichloroethane	10	10	**103** %	10	10	**100** %	**3** %	70 - 130 %	20%
127-18-4	Tetrachloroethene	10	9.0	**90** %	10	8.4	**84** %	**7** %	70 - 130 %	20%
142-28-9	1,3-Dichloropropane	10	10	**103** %	10	9.8	**98** %	**4** %	70 - 130 %	20%
591-78-6	2-Hexanone	20	20	**99** %	20	20	**98** %	**1** %	70 - 130 %	20%
124-48-1	Dibromochloromethane	10	9.3	**93** %	10	8.9	**89** %	**4** %	70 - 130 %	20%
106-93-4	1,2-Dibromoethane (EDB)	10	9.8	**98** %	10	9.5	**95** %	**3** %	70 - 130 %	20%
108-90-7	Chlorobenzene	10	9.2	**92** %	10	8.8	**88** %	**5** %	70 - 130 %	20%
630-20-6	1,1,1,2-Tetrachloroethane	10	9.6	**96** %	10	9.3	**93** %	**3** %	70 - 130 %	20%
100-41-4	Ethylbenzene	10	10	**103** %	10	9.7	**97** %	**6** %	70 - 130 %	20%
108-38-3/106-42-3	*meta*-Xylene and *para*-Xylene	20	20	**102** %	20	19	**97** %	**5** %	70 - 130 %	20%
95-47-6	*ortho*-Xylene	10	10	**103** %	10	9.9	**99** %	**4** %	70 - 130 %	20%
100-42-5	Styrene	10	10	**100** %	10	9.4	**94** %	**6** %	70 - 130 %	20%
75-25-2	Bromoform	10	8.5	**85** %	10	8.1	**81** %	**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:	**VM10-1343-W**	Analyzed:	**06-22-11 08:01**	Analyzed:	**06-22-11 08:34**
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	9.5	**95** %	10	8.8	**88** %	**7** %	70 - 130 %	20%
108-86-1	Bromobenzene	10	9.6	**96** %	10	9.1	**91** %	**5** %	70 - 130 %	20%
79-34-5	1,1,2,2-Tetrachloroethane	10	11	**113** %	10	11	**110** %	**3** %	70 - 130 %	20%
96-18-4	1,2,3-Trichloropropane	10	10	**103** %	10	10	**103** %	**1** %	70 - 130 %	20%
110-57-6	*trans*-1,4-Dichloro-2-butene	200	250	**123** %	200	240	**121** %	**2** %	70 - 130 %	20%
103-65-1	*n*-Propylbenzene	10	11	**112** %	10	10	**104** %	**7** %	70 - 130 %	20%
95-49-8	2-Chlorotoluene	10	10	**105** %	10	10	**100** %	**4** %	70 - 130 %	20%
108-67-8	1,3,5-Trimethylbenzene	10	11	**112** %	10	11	**105** %	**7** %	70 - 130 %	20%
106-43-4	4-Chlorotoluene	10	10	**100** %	10	9.4	**94** %	**6** %	70 - 130 %	20%
98-06-6	*tert*-Butylbenzene	10	11	**105** %	10	9.8	**98** %	**8** %	70 - 130 %	20%
95-63-6	1,2,4-Trimethylbenzene	10	11	**111** %	10	10	**105** %	**6** %	70 - 130 %	20%
135-98-8	*sec*-Butylbenzene	10	11	**111** %	10	10	**101** %	**9** %	70 - 130 %	20%
541-73-1	1,3-Dichlorobenzene	10	9.8	**98** %	10	9.2	**92** %	**6** %	70 - 130 %	20%
99-87-6	4-Isopropyltoluene	10	10	**102** %	10	9.5	**95** %	**8** %	70 - 130 %	20%
106-46-7	1,4-Dichlorobenzene	10	9.6	**96** %	10	9.1	**91** %	**5** %	70 - 130 %	20%
95-50-1	1,2-Dichlorobenzene	10	9.7	**97** %	10	9.2	**92** %	**5** %	70 - 130 %	20%
104-51-8	*n*-Butylbenzene	10	11	**114** %	10	10	**104** %	**10** %	70 - 130 %	20%
96-12-8	1,2-Dibromo-3-chloropropane	10	9.9	**99** %	10	10	**100** %	**1** %	70 - 130 %	20%
108-70-3	1,3,5-Trichlorobenzene	10	7.4	**74** %	10	7.0	**70** %	**6** %	70 - 130 %	20%
120-82-1	1,2,4-Trichlorobenzene	10	9.4	**94** %	10	8.9	**89** %	**5** %	70 - 130 %	20%
87-68-3	Hexachlorobutadiene	10	9.2	**92** %	10	8.2	**82** %	**11** %	70 - 130 %	20%
91-20-3	Naphthalene	10	9.2	**92** %	10	9.1	**91** %	**0** %	70 - 130 %	20%
87-61-6	1,2,3-Trichlorobenzene	10	9.7	**97** %	10	9.5	**95** %	**3** %	70 - 130 %	20%
75-65-0	*tert*-Butyl Alcohol (TBA)	200	170	**86** %	200	200	**99** %	**14** %	70 - 130 %	20%
108-20-3	Di-isopropyl Ether (DIPE)	10	9.7	**97** %	10	9.3	**93** %	**4** %	70 - 130 %	20%
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	10	8.9	**89** %	10	8.7	**87** %	**2** %	70 - 130 %	20%
994-05-8	*tert*-Amyl Methyl Ether (TAME)	10	8.1	**81** %	10	7.9	**79** %	**3** %	70 - 130 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
Dibromofluoromethane	10	11	**107** %	10	11	**110** %		70 - 130 %
1,2-Dichloroethane-d_4	10	11	**106** %	10	11	**106** %		70 - 130 %
Toluene-d_8	10	11	**114** %	10	12	**117** %		70 - 130 %
4-Bromofluorobenzene	10	12	**121** %	10	12	**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.

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:	**VM10-1343-W**	Analyzed:	**06-22-11 08:56**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.50
74-87-3	Chloromethane	BRL		ug/L	0.50
75-01-4	Vinyl Chloride	BRL		ug/L	0.50
74-83-9	Bromomethane	BRL		ug/L	0.50
75-00-3	Chloroethane	BRL		ug/L	0.50
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.50
60-29-7	Diethyl Ether	BRL		ug/L	2.0
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.50
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5.0
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5.0
75-09-2	Methylene Chloride	BRL		ug/L	2.5
107-13-1	Acrylonitrile	BRL		ug/L	2.5
156-60-5	*trans*- 1,2-Dichloroethene	BRL		ug/L	0.50
1634-04-4	Methyl *tert*- butyl Ether (MTBE)	BRL		ug/L	0.50
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.50
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.50
156-59-2	*cis*- 1,2-Dichloroethene	BRL		ug/L	0.50
78-93-3	2-Butanone (MEK)	BRL		ug/L	5.0
74-97-5	Bromochloromethane	BRL		ug/L	0.50
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5.0
67-66-3	Chloroform	BRL		ug/L	0.50
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.50
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.50
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.50
71-43-2	Benzene	BRL		ug/L	0.50
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.50
79-01-6	Trichloroethene	BRL		ug/L	0.50
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.50
74-95-3	Dibromomethane	BRL		ug/L	0.50
75-27-4	Bromodichloromethane	BRL		ug/L	0.50
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	*cis*- 1,3-Dichloropropene	BRL		ug/L	0.40
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5.0
108-88-3	Toluene	BRL		ug/L	0.50
10061-02-6	*trans*- 1,3-Dichloropropene	BRL		ug/L	0.40
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.50
127-18-4	Tetrachloroethene	BRL		ug/L	0.50
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.50
591-78-6	2-Hexanone	BRL		ug/L	5.0
124-48-1	Dibromochloromethane	BRL		ug/L	0.50
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.50
108-90-7	Chlorobenzene	BRL		ug/L	0.50
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.50
100-41-4	Ethylbenzene	BRL		ug/L	0.50
108-38-3/106-42-3	*meta*- Xylene and *para*- Xylene	BRL		ug/L	0.50
95-47-6	*ortho*- Xylene	BRL		ug/L	0.50
100-42-5	Styrene	BRL		ug/L	0.50
75-25-2	Bromoform	BRL		ug/L	2.5

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8260B**	Instrument ID:	**MS-10 HP 6890**
QC Batch ID:	**VM10-1343-W**	Analyzed:	**06-22-11 08:56**
Matrix:	**Aqueous**	Analyst:	**LMG**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
98-82-8	Isopropylbenzene	BRL		ug/L	0.50
108-86-1	Bromobenzene	BRL		ug/L	0.50
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.50
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.50
110-57-6	*trans*-1,4-Dichloro-2-butene	BRL		ug/L	25
103-65-1	*n*-Propylbenzene	BRL		ug/L	0.50
95-49-8	2-Chlorotoluene	BRL		ug/L	0.50
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.50
106-43-4	4-Chlorotoluene	BRL		ug/L	0.50
98-06-6	*tert*-Butylbenzene	BRL		ug/L	0.50
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.50
135-98-8	*sec*-Butylbenzene	BRL		ug/L	0.50
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.50
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.50
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.50
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.50
104-51-8	*n*-Butylbenzene	BRL		ug/L	0.50
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	2.5
108-70-3	1,3,5-Trichlorobenzene	BRL		ug/L	0.50
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.50
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.50
91-20-3	Naphthalene	BRL		ug/L	2.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.50
75-65-0	*tert*-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.50
637-92-3	Ethyl *tert*-butyl Ether (ETBE)	BRL		ug/L	0.50
994-05-8	*tert*-Amyl Methyl Ether (TAME)	BRL		ug/L	0.50

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	11	**111** %	70 - 130 %
1,2-Dichloroethane-d_4	10	11	**109** %	70 - 130 %
Toluene-d_8	10	11	**114** %	70 - 130 %
4-Bromofluorobenzene	10	12	**118** %	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 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-2699-F**	Extracted:	**06-21-11 17:30**	Extracted:	**06-21-11 17:30**
Matrix:	**Aqueous**	Cleaned Up:	**06-21-11 21:30**	Cleaned Up:	**06-21-11 21:30**
Units:	**ug/L**	Analyzed:	**06-22-11 02:26**	Analyzed:	**06-22-11 02:50**
		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	5.0	5.2	5.3	**104%**	**105%**	5.0	5.2	5.0	**104%**	**99%**	**0 %**	**6 %**	40 - 140%	20 %
11096-82-5	Aroclor 1260	5.0	5.2	5.1	**105%**	**103%**	5.0	4.9	4.7	**99%**	**94%**	**6 %**	**9 %**	40 - 140%	20 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	0.20	0.20	0.20	**101%**	**99%**	0.20	0.20	0.19	**98%**	**95%**		30 - 150 %
Decachlorobiphenyl	0.20	0.17	0.18	**87%**	**88%**	0.20	0.16	0.16	**80%**	**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 3510C. 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-13 Agilent 6890**
QC Batch ID:	**PB-2699-F**	Extracted:	**06-21-11 17:30**
Matrix:	**Aqueous**	Cleaned Up:	**06-21-11 21:30**
		Analyzed:	**06-22-11 02:02**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	0.20	0.20	**100** %	30 - 150 %
	Decachlorobiphenyl	0.20	0.17	**84** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	0.20	0.19	**97** %	30 - 150 %
	Decachlorobiphenyl	0.20	0.17	**85** %	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 3510C. 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 8270C Modified**	Instrument ID:	**MS-6 HP 6890**	Instrument ID:	**MS-6 HP 6890**
QC Batch ID:	**EP-2425-F**	Extracted:	**06-22-11 09:30**	Extracted:	**06-22-11 09:30**
Matrix:	**Aqueous**	Analyzed:	**06-23-11 10:26**	Analyzed:	**06-23-11 11:07**
Units:	**ug/L**	Analyst:	**MJB**	Analyst:	**MJB**

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits	
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	Spike	RPD
91-20-3	Naphthalene	5.0	4.2	**84** %	5.0	4.3	**86** %	**2** %	40 - 140 %	20%
91-57-6	2-Methylnaphthalene	5.0	4.6	**92** %	5.0	4.7	**94** %	**2** %	40 - 140 %	20%
85-01-8	Phenanthrene	5.0	4.2	**84** %	5.0	4.4	**88** %	**5** %	40 - 140 %	20%
83-32-9	Acenaphthene	5.0	5.7	**114** %	5.0	5.9	**118** %	**3** %	40 - 140 %	20%
208-96-8	Acenaphthylene	5.0	4.8	**96** %	5.0	5.1	**102** %	**6** %	40 - 140 %	20%
86-73-7	Fluorene	5.0	4.9	**98** %	5.0	5.2	**104** %	**6** %	40 - 140 %	20%
120-12-7	Anthracene	5.0	4.8	**96** %	5.0	5.0	**100** %	**4** %	40 - 140 %	20%
206-44-0	Fluoranthene	5.0	4.6	**92** %	5.0	4.7	**94** %	**2** %	40 - 140 %	20%
129-00-0	Pyrene	5.0	4.9	**98** %	5.0	5.2	**104** %	**6** %	40 - 140 %	20%
56-55-3	Benzo[a]anthracene	5.0	4.4	**88** %	5.0	4.8	**96** %	**9** %	40 - 140 %	20%
218-01-9	Chrysene	5.0	4.6	**92** %	5.0	4.9	**98** %	**6** %	40 - 140 %	20%
205-99-2	Benzo[b]fluoranthene	5.0	4.5	**90** %	5.0	4.7	**94** %	**4** %	40 - 140 %	20%
207-08-9	Benzo[k]fluoranthene	5.0	4.4	**88** %	5.0	4.6	**92** %	**4** %	40 - 140 %	20%
50-32-8	Benzo[a]pyrene	5.0	4.8	**96** %	5.0	5.0	**100** %	**4** %	40 - 140 %	20%
193-39-5	Indeno[1,2,3-c,d]pyrene	5.0	4.6	**92** %	5.0	4.8	**96** %	**4** %	40 - 140 %	20%
53-70-3	Dibenzo[a,h]anthracene	5.0	4.5	**90** %	5.0	4.7	**94** %	**4** %	40 - 140 %	20%
191-24-2	Benzo[g,h,i]perylene	5.0	4.6	**92** %	5.0	4.8	**96** %	**4** %	40 - 140 %	20%

QC Surrogate Compound	Spiked	Measured	Recovery	Spiked	Measured	Recovery		QC Limits
ortho -Terphenyl	40	34	**85** %	40	36	**90** %		40 - 140 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method.
Method protocol modified to include acidification and the surrogate compound in accordance with the MA DEP Method for the Determination of Extractable Petroleum Hydrocarbons.
Sample extraction performed by EPA Method 3510C.

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.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8270C (Mod.) - EPH PAHs by GC/MS-SIM**	Instrument ID:	**MS-6 HP 6890**
QC Batch ID:	**EP-2425-F**	Extracted:	**06-22-11 09:30**
Matrix:	**Aqueous**	Analyzed:	**06-23-11 11:47**
		Analyst:	**MJB**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
91-20-3	Naphthalene	BRL		ug/L	0.5
91-57-6	2-Methylnaphthalene	BRL		ug/L	0.5
208-96-8	Acenaphthylene	BRL		ug/L	0.5
83-32-9	Acenaphthene	BRL		ug/L	0.5
86-73-7	Fluorene	BRL		ug/L	0.5
85-01-8	Phenanthrene	BRL		ug/L	0.5
120-12-7	Anthracene	BRL		ug/L	0.5
206-44-0	Fluoranthene	BRL		ug/L	0.5
129-00-0	Pyrene	BRL		ug/L	0.5
56-55-3	Benzo[a]anthracene	BRL		ug/L	0.1
218-01-9	Chrysene	BRL		ug/L	0.1
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	0.1
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	0.1
50-32-8	Benzo[a]pyrene	BRL		ug/L	0.1
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	0.1
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	0.1
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	0.1

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho-Terphenyl	40	32	**80** %	40 - 140 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified by use of selected ion monitoring (SIM) in accordance with Section 7.5.5 of the method.
Method protocol modified to include acidification and the surrogate compound in accordance with the MA DEP Method for the Determination of Extractable Petroleum Hydrocarbons.
Sample extraction performed by EPA Method 3510C.

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

ANALYTICAL REPORT

Lab Number:	L1114144
Client:	Goldman Environmental Consultants 60 Brooks Drive Braintree, MA 02184
ATTN:	Sam Butcher
Phone:	(781) 356-9140
Project Name:	BOOTT MILLS
Project Number:	911-173A
Report Date:	09/21/11

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Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1114144-01	B-8 0-1'	Not Specified	09/01/11 12:25
L1114144-02	B-8 1-3'	Not Specified	09/01/11 12:29
L1114144-03	B-8 0-3'	Not Specified	09/01/11 12:32
L1114144-04	B-8 5-10'	Not Specified	09/01/11 12:50
L1114144-05	B-8 10-15'	Not Specified	09/01/11 12:57
L1114144-06	B-9 0-1'	Not Specified	09/01/11 14:27
L1114144-07	B-9 1-3'	Not Specified	09/01/11 14:30
L1114144-08	B-9 0-3'	Not Specified	09/01/11 14:32
L1114144-09	B-10 0-3'	Not Specified	09/01/11 10:55
L1114144-10	B-10 3-6'	Not Specified	09/01/11 11:10
L1114144-11	B-11 0-3'	Not Specified	09/01/11 09:05
L1114144-12	B-11 3-6'	Not Specified	09/01/11 09:30
L1114144-13	B-8 0-3'	Not Specified	09/01/11 12:32
L1114144-14	B-12 0-3'	Not Specified	09/01/11 13:17
L1114144-15	B-12 3-6'	Not Specified	09/01/11 13:25
L1114144-16	B-13 0-3'	Not Specified	09/01/11 10:00
L1114144-17	B-13 3-6'	Not Specified	09/01/11 10:10

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
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 a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
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

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: BOOTT MILLS **Lab Number:** L1114144
Project Number: 911-173A **Report Date:** 09/21/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Sample Receipt

The samples associated with L1114144 were transferred from Groundwater Analytical to Alpha Analytical on Friday, September 9, 2011. It is assumed that sample integrity was maintained prior to receipt.

The water-preserved VOA vials for the Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing.

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.

Volatile Organics

L1114144-08 was analyzed with the method required holding time exceeded for the undiluted analysis; however, a diluted analysis was run within the method required holding time. Both analyses are being

Project Name: BOOTT MILLS **Lab Number:** L1114144
Project Number: 911-173A **Report Date:** 09/21/11

Case Narrative (continued)

reported.

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG490649-2 LCSD recoveries, associated with L1114144-03, -04, -05, -08 and -11, are below the acceptance criteria for Dichlorodifluoromethane (68%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

The WG490649-2 LCSD recovery, associated with L1114144-03, -04, -05, -08 and -11, are below the individual acceptance criteria for Hexachlorobutadiene (64%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

The WG490649-1/-2 LCS/LCSD RPDs, associated with L1114144-03, -04, -05, -08 and -11, are above the acceptance criteria for Methylene chloride (25%), 1,1-Dichloroethane (27%), Chloroform (28%), Carbon tetrachloride (27%), 1,1,1-Trichloroethane (29%), Bbromomethane (21%), trans-1,2-Dichloroethene (24%), Methyl tert butyl ether (22%), cis-1,2-Dichloroethene (25%), Acetone (25%), Bromochloromethane (22%), 2,2-Dichloropropane (30%) and Isopropylbenzene (21%).

The WG490649-4 LCS recovery, associated with L1114144-08, is above the individual acceptance criteria for 1,2,3- Trichloropropane (132%), but within the overall method allowances. The results of the associated sample are reported; however, all positive detects are considered to have a potentially high bias for this compound.

The WG490649-5 LCSD recovery, associated with L1114144-08, is below the acceptance criteria for Dichlorodifluoromethane (69%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

The initial calibration, associated with L1114144-03, -04, -05, -08 and -11, did not meet the method required minimum response factors on the lowest calibration standards for Bromomethane (0.09956), o-Xylene (0.28056), and 1,4-Dioxane (0.00259),as well as the average response factor for Bromomethane and 1,4-

Project Name: BOOTT MILLS **Lab Number:** L1114144
Project Number: 911-173A **Report Date:** 09/21/11

Case Narrative (continued)

Dioxane.

The continuing calibration standards, associated with L1114144-03, -04, -05, -08 and -11, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

Semivolatile Organics

In reference to question H:

The surrogate recovery for L1114144-14 is outside the individual acceptance criteria for Nitrobenzene-d5 (22%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

In reference to question I:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

PCBs

L1114144-07, -09, -10 and -11 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question G:

L1114144-07, -09, -10 and -11: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The surrogate recoveries for L1114144-07, -09, -10 and -11 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all at 0%) due to the dilution required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analysis are reported.

Metals

L1114144-16 has elevated detection limits for all analytes, with the exception of Mercury, due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A. Simmons Elizabeth Simmons

Title: Technical Director/Representative Date: 09/21/11

ORGANICS

VOLATILES

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-03	Date Collected:	09/01/11 12:32
Client ID:	B-8 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	09/15/11 11:10		
Analyst:	BN		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	530	--	1
1,1-Dichloroethane	ND		ug/kg	79	--	1
Chloroform	ND		ug/kg	79	--	1
Carbon tetrachloride	ND		ug/kg	53	--	1
1,2-Dichloropropane	ND		ug/kg	180	--	1
Dibromochloromethane	ND		ug/kg	53	--	1
1,1,2-Trichloroethane	ND		ug/kg	79	--	1
Tetrachloroethene	ND		ug/kg	53	--	1
Chlorobenzene	ND		ug/kg	53	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	53	--	1
1,1,1-Trichloroethane	ND		ug/kg	53	--	1
Bromodichloromethane	ND		ug/kg	53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	53	--	1
cis-1,3-Dichloropropene	ND		ug/kg	53	--	1
1,1-Dichloropropene	ND		ug/kg	210	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	53	--	1
Benzene	ND		ug/kg	53	--	1
Toluene	ND		ug/kg	79	--	1
Ethylbenzene	ND		ug/kg	53	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	100	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	53	--	1
trans-1,2-Dichloroethene	ND		ug/kg	79	--	1
Trichloroethene	ND		ug/kg	53	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-03 Date Collected: 09/01/11 12:32

Client ID: B-8 0-3' Date Received: 09/09/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	100	--	1
cis-1,2-Dichloroethene	ND		ug/kg	53	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	100	--	1
Dichlorodifluoromethane	ND		ug/kg	530	--	1
Acetone	ND		ug/kg	1900	--	1
Carbon disulfide	ND		ug/kg	210	--	1
2-Butanone	ND		ug/kg	530	--	1
4-Methyl-2-pentanone	ND		ug/kg	530	--	1
2-Hexanone	ND		ug/kg	530	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	260	--	1
1,2-Dibromoethane	ND		ug/kg	210	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	53	--	1
Bromobenzene	ND		ug/kg	260	--	1
n-Butylbenzene	ND		ug/kg	53	--	1
sec-Butylbenzene	ND		ug/kg	53	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	53	--	1
p-Isopropyltoluene	ND		ug/kg	53	--	1
Naphthalene	ND		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	53	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1
Ethyl ether	ND		ug/kg	260	--	1
Isopropyl Ether	ND		ug/kg	210	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-03	Date Collected:	09/01/11 12:32
Client ID:	B-8 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	5300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	90		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-04	Date Collected:	09/01/11 12:50
Client ID:	B-8 5-10'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	09/15/11 12:19		
Analyst:	BN		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	700	--	1
1,1-Dichloroethane	ND		ug/kg	100	--	1
Chloroform	ND		ug/kg	100	--	1
Carbon tetrachloride	ND		ug/kg	70	--	1
1,2-Dichloropropane	ND		ug/kg	240	--	1
Dibromochloromethane	ND		ug/kg	70	--	1
1,1,2-Trichloroethane	ND		ug/kg	100	--	1
Tetrachloroethene	ND		ug/kg	70	--	1
Chlorobenzene	ND		ug/kg	70	--	1
Trichlorofluoromethane	ND		ug/kg	280	--	1
1,2-Dichloroethane	ND		ug/kg	70	--	1
1,1,1-Trichloroethane	ND		ug/kg	70	--	1
Bromodichloromethane	ND		ug/kg	70	--	1
trans-1,3-Dichloropropene	ND		ug/kg	70	--	1
cis-1,3-Dichloropropene	ND		ug/kg	70	--	1
1,1-Dichloropropene	ND		ug/kg	280	--	1
Bromoform	ND		ug/kg	280	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	70	--	1
Benzene	ND		ug/kg	70	--	1
Toluene	ND		ug/kg	100	--	1
Ethylbenzene	ND		ug/kg	70	--	1
Chloromethane	ND		ug/kg	280	--	1
Bromomethane	ND		ug/kg	140	--	1
Vinyl chloride	ND		ug/kg	140	--	1
Chloroethane	ND		ug/kg	140	--	1
1,1-Dichloroethene	ND		ug/kg	70	--	1
trans-1,2-Dichloroethene	ND		ug/kg	100	--	1
Trichloroethene	ND		ug/kg	70	--	1
1,2-Dichlorobenzene	ND		ug/kg	280	--	1
1,3-Dichlorobenzene	ND		ug/kg	280	--	1
1,4-Dichlorobenzene	ND		ug/kg	280	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-04 Date Collected: 09/01/11 12:50

Client ID: B-8 5-10' Date Received: 09/09/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	--	1
p/m-Xylene	ND		ug/kg	140	--	1
o-Xylene	ND		ug/kg	140	--	1
cis-1,2-Dichloroethene	ND		ug/kg	70	--	1
Dibromomethane	ND		ug/kg	280	--	1
1,2,3-Trichloropropane	ND		ug/kg	280	--	1
Styrene	ND		ug/kg	140	--	1
Dichlorodifluoromethane	ND		ug/kg	700	--	1
Acetone	ND		ug/kg	2500	--	1
Carbon disulfide	ND		ug/kg	280	--	1
2-Butanone	ND		ug/kg	700	--	1
4-Methyl-2-pentanone	ND		ug/kg	700	--	1
2-Hexanone	ND		ug/kg	700	--	1
Bromochloromethane	ND		ug/kg	280	--	1
Tetrahydrofuran	ND		ug/kg	280	--	1
2,2-Dichloropropane	ND		ug/kg	350	--	1
1,2-Dibromoethane	ND		ug/kg	280	--	1
1,3-Dichloropropane	ND		ug/kg	280	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	70	--	1
Bromobenzene	ND		ug/kg	350	--	1
n-Butylbenzene	ND		ug/kg	70	--	1
sec-Butylbenzene	ND		ug/kg	70	--	1
tert-Butylbenzene	ND		ug/kg	280	--	1
o-Chlorotoluene	ND		ug/kg	280	--	1
p-Chlorotoluene	ND		ug/kg	280	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	--	1
Hexachlorobutadiene	ND		ug/kg	280	--	1
Isopropylbenzene	ND		ug/kg	70	--	1
p-Isopropyltoluene	ND		ug/kg	70	--	1
Naphthalene	ND		ug/kg	280	--	1
n-Propylbenzene	ND		ug/kg	70	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	--	1
Ethyl ether	ND		ug/kg	350	--	1
Isopropyl Ether	ND		ug/kg	280	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	280	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	280	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-04	Date Collected:	09/01/11 12:50
Client ID:	B-8 5-10'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	7000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	93		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-05	Date Collected:	09/01/11 12:57
Client ID:	B-8 10-15'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	09/15/11 12:47		
Analyst:	BN		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	650	--	1
1,1-Dichloroethane	ND		ug/kg	98	--	1
Chloroform	ND		ug/kg	98	--	1
Carbon tetrachloride	ND		ug/kg	65	--	1
1,2-Dichloropropane	ND		ug/kg	230	--	1
Dibromochloromethane	ND		ug/kg	65	--	1
1,1,2-Trichloroethane	ND		ug/kg	98	--	1
Tetrachloroethene	ND		ug/kg	65	--	1
Chlorobenzene	ND		ug/kg	65	--	1
Trichlorofluoromethane	ND		ug/kg	260	--	1
1,2-Dichloroethane	ND		ug/kg	65	--	1
1,1,1-Trichloroethane	ND		ug/kg	65	--	1
Bromodichloromethane	ND		ug/kg	65	--	1
trans-1,3-Dichloropropene	ND		ug/kg	65	--	1
cis-1,3-Dichloropropene	ND		ug/kg	65	--	1
1,1-Dichloropropene	ND		ug/kg	260	--	1
Bromoform	ND		ug/kg	260	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	65	--	1
Benzene	ND		ug/kg	65	--	1
Toluene	ND		ug/kg	98	--	1
Ethylbenzene	ND		ug/kg	65	--	1
Chloromethane	ND		ug/kg	260	--	1
Bromomethane	ND		ug/kg	130	--	1
Vinyl chloride	ND		ug/kg	130	--	1
Chloroethane	ND		ug/kg	130	--	1
1,1-Dichloroethene	ND		ug/kg	65	--	1
trans-1,2-Dichloroethene	ND		ug/kg	98	--	1
Trichloroethene	ND		ug/kg	65	--	1
1,2-Dichlorobenzene	ND		ug/kg	260	--	1
1,3-Dichlorobenzene	ND		ug/kg	260	--	1
1,4-Dichlorobenzene	ND		ug/kg	260	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-05 Date Collected: 09/01/11 12:57

Client ID: B-8 10-15' Date Received: 09/09/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	130	--	1
p/m-Xylene	ND		ug/kg	130	--	1
o-Xylene	ND		ug/kg	130	--	1
cis-1,2-Dichloroethene	ND		ug/kg	65	--	1
Dibromomethane	ND		ug/kg	260	--	1
1,2,3-Trichloropropane	ND		ug/kg	260	--	1
Styrene	ND		ug/kg	130	--	1
Dichlorodifluoromethane	ND		ug/kg	650	--	1
Acetone	ND		ug/kg	2300	--	1
Carbon disulfide	ND		ug/kg	260	--	1
2-Butanone	ND		ug/kg	650	--	1
4-Methyl-2-pentanone	ND		ug/kg	650	--	1
2-Hexanone	ND		ug/kg	650	--	1
Bromochloromethane	ND		ug/kg	260	--	1
Tetrahydrofuran	ND		ug/kg	260	--	1
2,2-Dichloropropane	ND		ug/kg	330	--	1
1,2-Dibromoethane	ND		ug/kg	260	--	1
1,3-Dichloropropane	ND		ug/kg	260	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	65	--	1
Bromobenzene	ND		ug/kg	330	--	1
n-Butylbenzene	ND		ug/kg	65	--	1
sec-Butylbenzene	ND		ug/kg	65	--	1
tert-Butylbenzene	ND		ug/kg	260	--	1
o-Chlorotoluene	ND		ug/kg	260	--	1
p-Chlorotoluene	ND		ug/kg	260	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	260	--	1
Hexachlorobutadiene	ND		ug/kg	260	--	1
Isopropylbenzene	ND		ug/kg	65	--	1
p-Isopropyltoluene	ND		ug/kg	65	--	1
Naphthalene	ND		ug/kg	260	--	1
n-Propylbenzene	ND		ug/kg	65	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	260	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	260	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	260	--	1
Ethyl ether	ND		ug/kg	330	--	1
Isopropyl Ether	ND		ug/kg	260	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	260	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	260	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-05	Date Collected:	09/01/11 12:57
Client ID:	B-8 10-15'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	6500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	91		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-08	Date Collected:	09/01/11 14:32
Client ID:	B-9 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	09/18/11 11:11		
Analyst:	BN		
Percent Solids:	93%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	490	--	1
1,1-Dichloroethane	ND		ug/kg	74	--	1
Chloroform	ND		ug/kg	74	--	1
Carbon tetrachloride	ND		ug/kg	49	--	1
1,2-Dichloropropane	ND		ug/kg	170	--	1
Dibromochloromethane	ND		ug/kg	49	--	1
1,1,2-Trichloroethane	ND		ug/kg	74	--	1
Tetrachloroethene	ND		ug/kg	49	--	1
Chlorobenzene	ND		ug/kg	49	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	49	--	1
1,1,1-Trichloroethane	ND		ug/kg	49	--	1
Bromodichloromethane	ND		ug/kg	49	--	1
trans-1,3-Dichloropropene	ND		ug/kg	49	--	1
cis-1,3-Dichloropropene	ND		ug/kg	49	--	1
1,1-Dichloropropene	ND		ug/kg	200	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	49	--	1
Benzene	ND		ug/kg	49	--	1
Toluene	ND		ug/kg	74	--	1
Ethylbenzene	ND		ug/kg	49	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	98	--	1
Vinyl chloride	ND		ug/kg	98	--	1
Chloroethane	ND		ug/kg	98	--	1
1,1-Dichloroethene	ND		ug/kg	49	--	1
trans-1,2-Dichloroethene	ND		ug/kg	74	--	1
Trichloroethene	ND		ug/kg	49	--	1
1,2-Dichlorobenzene	ND		ug/kg	200	--	1
1,3-Dichlorobenzene	ND		ug/kg	200	--	1
1,4-Dichlorobenzene	ND		ug/kg	200	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-08 Date Collected: 09/01/11 14:32

Client ID: B-9 0-3' Date Received: 09/09/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	98	--	1
p/m-Xylene	ND		ug/kg	98	--	1
o-Xylene	ND		ug/kg	98	--	1
cis-1,2-Dichloroethene	ND		ug/kg	49	--	1
Dibromomethane	ND		ug/kg	200	--	1
1,2,3-Trichloropropane	ND		ug/kg	200	--	1
Styrene	ND		ug/kg	98	--	1
Dichlorodifluoromethane	ND		ug/kg	490	--	1
Acetone	ND		ug/kg	1800	--	1
Carbon disulfide	ND		ug/kg	200	--	1
2-Butanone	ND		ug/kg	490	--	1
4-Methyl-2-pentanone	ND		ug/kg	490	--	1
2-Hexanone	ND		ug/kg	490	--	1
Bromochloromethane	ND		ug/kg	200	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	200	--	1
1,3-Dichloropropane	ND		ug/kg	200	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	49	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	49	--	1
sec-Butylbenzene	ND		ug/kg	49	--	1
tert-Butylbenzene	ND		ug/kg	200	--	1
o-Chlorotoluene	ND		ug/kg	200	--	1
p-Chlorotoluene	ND		ug/kg	200	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	49	--	1
p-Isopropyltoluene	ND		ug/kg	49	--	1
Naphthalene	240		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	49	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	200	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	200	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	200	--	1
Ethyl ether	ND		ug/kg	240	--	1
Isopropyl Ether	ND		ug/kg	200	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-08	Date Collected:	09/01/11 14:32
Client ID:	B-9 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	4900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	89		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-08	D	Date Collected:	09/01/11 14:32
Client ID:	B-9 0-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	97,8260B			
Analytical Date:	09/15/11 10:43			
Analyst:	BN			
Percent Solids:	93%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	2400	--	5
1,1-Dichloroethane	ND		ug/kg	370	--	5
Chloroform	ND		ug/kg	370	--	5
Carbon tetrachloride	ND		ug/kg	240	--	5
1,2-Dichloropropane	ND		ug/kg	860	--	5
Dibromochloromethane	ND		ug/kg	240	--	5
1,1,2-Trichloroethane	ND		ug/kg	370	--	5
Tetrachloroethene	ND		ug/kg	240	--	5
Chlorobenzene	ND		ug/kg	240	--	5
Trichlorofluoromethane	ND		ug/kg	980	--	5
1,2-Dichloroethane	ND		ug/kg	240	--	5
1,1,1-Trichloroethane	ND		ug/kg	240	--	5
Bromodichloromethane	ND		ug/kg	240	--	5
trans-1,3-Dichloropropene	ND		ug/kg	240	--	5
cis-1,3-Dichloropropene	ND		ug/kg	240	--	5
1,1-Dichloropropene	ND		ug/kg	980	--	5
Bromoform	ND		ug/kg	980	--	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	240	--	5
Benzene	ND		ug/kg	240	--	5
Toluene	ND		ug/kg	370	--	5
Ethylbenzene	ND		ug/kg	240	--	5
Chloromethane	ND		ug/kg	980	--	5
Bromomethane	ND		ug/kg	490	--	5
Vinyl chloride	ND		ug/kg	490	--	5
Chloroethane	ND		ug/kg	490	--	5
1,1-Dichloroethene	ND		ug/kg	240	--	5
trans-1,2-Dichloroethene	ND		ug/kg	370	--	5
Trichloroethene	ND		ug/kg	240	--	5
1,2-Dichlorobenzene	ND		ug/kg	980	--	5
1,3-Dichlorobenzene	ND		ug/kg	980	--	5
1,4-Dichlorobenzene	ND		ug/kg	980	--	5

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-08 D Date Collected: 09/01/11 14:32

Client ID: B-9 0-3' Date Received: 09/09/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	490	--	5
p/m-Xylene	ND		ug/kg	490	--	5
o-Xylene	ND		ug/kg	490	--	5
cis-1,2-Dichloroethene	ND		ug/kg	240	--	5
Dibromomethane	ND		ug/kg	980	--	5
1,2,3-Trichloropropane	ND		ug/kg	980	--	5
Styrene	ND		ug/kg	490	--	5
Dichlorodifluoromethane	ND		ug/kg	2400	--	5
Acetone	ND		ug/kg	8800	--	5
Carbon disulfide	ND		ug/kg	980	--	5
2-Butanone	ND		ug/kg	2400	--	5
4-Methyl-2-pentanone	ND		ug/kg	2400	--	5
2-Hexanone	ND		ug/kg	2400	--	5
Bromochloromethane	ND		ug/kg	980	--	5
Tetrahydrofuran	ND		ug/kg	980	--	5
2,2-Dichloropropane	ND		ug/kg	1200	--	5
1,2-Dibromoethane	ND		ug/kg	980	--	5
1,3-Dichloropropane	ND		ug/kg	980	--	5
1,1,1,2-Tetrachloroethane	ND		ug/kg	240	--	5
Bromobenzene	ND		ug/kg	1200	--	5
n-Butylbenzene	ND		ug/kg	240	--	5
sec-Butylbenzene	ND		ug/kg	240	--	5
tert-Butylbenzene	ND		ug/kg	980	--	5
o-Chlorotoluene	ND		ug/kg	980	--	5
p-Chlorotoluene	ND		ug/kg	980	--	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	980	--	5
Hexachlorobutadiene	ND		ug/kg	980	--	5
Isopropylbenzene	ND		ug/kg	240	--	5
p-Isopropyltoluene	ND		ug/kg	240	--	5
Naphthalene	ND		ug/kg	980	--	5
n-Propylbenzene	ND		ug/kg	240	--	5
1,2,3-Trichlorobenzene	ND		ug/kg	980	--	5
1,2,4-Trichlorobenzene	ND		ug/kg	980	--	5
1,3,5-Trimethylbenzene	ND		ug/kg	980	--	5
1,2,4-Trimethylbenzene	ND		ug/kg	980	--	5
Ethyl ether	ND		ug/kg	1200	--	5
Isopropyl Ether	ND		ug/kg	980	--	5
Ethyl-Tert-Butyl-Ether	ND		ug/kg	980	--	5
Tertiary-Amyl Methyl Ether	ND		ug/kg	980	--	5

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-08	D	Date Collected:	09/01/11 14:32
Client ID:	B-9 0-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	24000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	91		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-11	Date Collected:	09/01/11 09:05
Client ID:	B-11 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	97,8260B		
Analytical Date:	09/15/11 13:14		
Analyst:	BN		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	530	--	1
1,1-Dichloroethane	ND		ug/kg	80	--	1
Chloroform	ND		ug/kg	80	--	1
Carbon tetrachloride	ND		ug/kg	53	--	1
1,2-Dichloropropane	ND		ug/kg	180	--	1
Dibromochloromethane	ND		ug/kg	53	--	1
1,1,2-Trichloroethane	ND		ug/kg	80	--	1
Tetrachloroethene	ND		ug/kg	53	--	1
Chlorobenzene	ND		ug/kg	53	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	53	--	1
1,1,1-Trichloroethane	ND		ug/kg	53	--	1
Bromodichloromethane	ND		ug/kg	53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	53	--	1
cis-1,3-Dichloropropene	ND		ug/kg	53	--	1
1,1-Dichloropropene	ND		ug/kg	210	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	53	--	1
Benzene	ND		ug/kg	53	--	1
Toluene	ND		ug/kg	80	--	1
Ethylbenzene	ND		ug/kg	53	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	110	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	53	--	1
trans-1,2-Dichloroethene	ND		ug/kg	80	--	1
Trichloroethene	ND		ug/kg	53	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-11 Date Collected: 09/01/11 09:05

Client ID: B-11 0-3' Date Received: 09/09/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	110	--	1
cis-1,2-Dichloroethene	ND		ug/kg	53	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	110	--	1
Dichlorodifluoromethane	ND		ug/kg	530	--	1
Acetone	ND		ug/kg	1900	--	1
Carbon disulfide	ND		ug/kg	210	--	1
2-Butanone	ND		ug/kg	530	--	1
4-Methyl-2-pentanone	ND		ug/kg	530	--	1
2-Hexanone	ND		ug/kg	530	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	260	--	1
1,2-Dibromoethane	ND		ug/kg	210	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	53	--	1
Bromobenzene	ND		ug/kg	260	--	1
n-Butylbenzene	ND		ug/kg	53	--	1
sec-Butylbenzene	ND		ug/kg	53	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	53	--	1
p-Isopropyltoluene	ND		ug/kg	53	--	1
Naphthalene	ND		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	53	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1
Ethyl ether	ND		ug/kg	260	--	1
Isopropyl Ether	ND		ug/kg	210	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-11	Date Collected:	09/01/11 09:05
Client ID:	B-11 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 5035 High - Westborough Lab						
1,4-Dioxane	ND		ug/kg	5300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	89		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/15/11 08:24
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 03-05,08,11 Batch: WG490649-3					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/15/11 08:24
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 03-05,08,11 Batch: WG490649-3					
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
2-Butanone	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/15/11 08:24
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 03-05,08,11 Batch: WG490649-3					
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Ethyl ether	ND		ug/kg	250	--
Isopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	91		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/18/11 10:44
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 08 Batch: WG490649-6					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/18/11 10:44
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 08 Batch: WG490649-6					
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
2-Butanone	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/18/11 10:44
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 08 Batch: WG490649-6					
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Ethyl ether	ND		ug/kg	250	--
Isopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-05,08,11 Batch: WG490649-1 WG490649-2								
Methylene chloride	111		86		70-130	**25**	Q	20
1,1-Dichloroethane	102		78		70-130	**27**	Q	20
Chloroform	103		78		70-130	**28**	Q	20
Carbon tetrachloride	101		77		70-130	**27**	Q	20
1,2-Dichloropropane	101		94		70-130	7		20
Dibromochloromethane	93		90		70-130	3		20
1,1,2-Trichloroethane	107		103		70-130	4		20
Tetrachloroethene	92		82		70-130	11		20
Chlorobenzene	94		89		70-130	5		20
Trichlorofluoromethane	99		87		70-130	13		20
1,2-Dichloroethane	103		97		70-130	6		20
1,1,1-Trichloroethane	99		74		70-130	**29**	Q	20
Bromodichloromethane	100		94		70-130	6		20
trans-1,3-Dichloropropene	107		106		70-130	1		20
cis-1,3-Dichloropropene	104		96		70-130	8		20
1,1-Dichloropropene	102		88		70-130	15		20
Bromoform	106		91		70-130	15		20
1,1,2,2-Tetrachloroethane	109		96		70-130	13		20
Benzene	105		96		70-130	9		20
Toluene	98		92		70-130	6		20
Ethylbenzene	101		94		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-05,08,11 Batch: WG490649-1 WG490649-2								
Chloromethane	95		81		70-130	16		20
Bromomethane	106		86		70-130	**21**	Q	20
Vinyl chloride	96		84		70-130	13		20
Chloroethane	99		86		70-130	14		20
1,1-Dichloroethene	95		84		70-130	12		20
trans-1,2-Dichloroethene	97		76		70-130	**24**	Q	20
Trichloroethene	98		89		70-130	10		20
1,2-Dichlorobenzene	89		86		70-130	3		20
1,3-Dichlorobenzene	93		89		70-130	4		20
1,4-Dichlorobenzene	92		88		70-130	4		20
Methyl tert butyl ether	102		82		70-130	**22**	Q	20
p/m-Xylene	104		96		70-130	8		20
o-Xylene	104		95		70-130	9		20
cis-1,2-Dichloroethene	102		79		70-130	**25**	Q	20
Dibromomethane	104		99		70-130	5		20
1,2,3-Trichloropropane	117		103		70-130	13		20
Styrene	106		101		70-130	5		20
Dichlorodifluoromethane	82		**68**	Q	70-130	19		20
Acetone	98		76		70-130	**25**	Q	20
Carbon disulfide	83		75		70-130	10		20
2-Butanone	102		92		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-05,08,11 Batch: WG490649-1 WG490649-2								
4-Methyl-2-pentanone	101		92		70-130	9		20
2-Hexanone	93		90		70-130	3		20
Bromochloromethane	103		83		70-130	**22**	Q	20
Tetrahydrofuran	96		79		70-130	19		20
2,2-Dichloropropane	103		76		70-130	**30**	Q	20
1,2-Dibromoethane	97		93		70-130	4		20
1,3-Dichloropropane	104		101		70-130	3		20
1,1,1,2-Tetrachloroethane	94		89		70-130	5		20
Bromobenzene	105		86		70-130	20		20
n-Butylbenzene	93		92		70-130	1		20
sec-Butylbenzene	100		89		70-130	12		20
tert-Butylbenzene	104		85		70-130	20		20
o-Chlorotoluene	111		93		70-130	18		20
p-Chlorotoluene	111		95		70-130	16		20
1,2-Dibromo-3-chloropropane	87		92		70-130	6		20
Hexachlorobutadiene	74		**64**	Q	70-130	14		20
Isopropylbenzene	110		89		70-130	**21**	Q	20
p-Isopropyltoluene	96		92		70-130	4		20
Naphthalene	88		84		70-130	5		20
n-Propylbenzene	114		95		70-130	18		20
1,2,3-Trichlorobenzene	85		78		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 03-05,08,11 Batch: WG490649-1 WG490649-2								
1,2,4-Trichlorobenzene	87		77		70-130	12		20
1,3,5-Trimethylbenzene	109		91		70-130	18		20
1,2,4-Trimethylbenzene	110		96		70-130	14		20
Ethyl ether	112		109		70-130	3		20
Isopropyl Ether	99		83		70-130	18		20
Ethyl-Tert-Butyl-Ether	106		88		70-130	19		20
Tertiary-Amyl Methyl Ether	107		103		70-130	4		20
1,4-Dioxane	112		103		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		101		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	115		103		70-130
Dibromofluoromethane	97		83		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 08 Batch: WG490649-4 WG490649-5								
Methylene chloride	90		86		70-130	5		20
1,1-Dichloroethane	96		93		70-130	3		20
Chloroform	99		96		70-130	3		20
Carbon tetrachloride	94		92		70-130	2		20
1,2-Dichloropropane	91		91		70-130	0		20
Dibromochloromethane	98		98		70-130	0		20
1,1,2-Trichloroethane	115		113		70-130	2		20
Tetrachloroethene	97		93		70-130	4		20
Chlorobenzene	102		98		70-130	4		20
Trichlorofluoromethane	98		95		70-130	3		20
1,2-Dichloroethane	104		103		70-130	1		20
1,1,1-Trichloroethane	95		92		70-130	3		20
Bromodichloromethane	96		94		70-130	2		20
trans-1,3-Dichloropropene	120		120		70-130	0		20
cis-1,3-Dichloropropene	97		97		70-130	0		20
1,1-Dichloropropene	101		96		70-130	5		20
Bromoform	105		106		70-130	1		20
1,1,2,2-Tetrachloroethane	116		113		70-130	3		20
Benzene	98		96		70-130	2		20
Toluene	108		103		70-130	5		20
Ethylbenzene	112		108		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 08 Batch: WG490649-4 WG490649-5								
Chloromethane	76		70		70-130	8		20
Bromomethane	96		87		70-130	10		20
Vinyl chloride	95		88		70-130	8		20
Chloroethane	101		94		70-130	7		20
1,1-Dichloroethene	89		85		70-130	5		20
trans-1,2-Dichloroethene	89		86		70-130	3		20
Trichloroethene	94		90		70-130	4		20
1,2-Dichlorobenzene	101		99		70-130	2		20
1,3-Dichlorobenzene	107		104		70-130	3		20
1,4-Dichlorobenzene	105		103		70-130	2		20
Methyl tert butyl ether	97		97		70-130	0		20
p/m-Xylene	113		109		70-130	4		20
o-Xylene	112		108		70-130	4		20
cis-1,2-Dichloroethene	92		90		70-130	2		20
Dibromomethane	98		98		70-130	0		20
1,2,3-Trichloropropane	**132**	Q	128		70-130	3		20
Styrene	116		113		70-130	3		20
Dichlorodifluoromethane	77		**69**	Q	70-130	11		20
Acetone	92		88		70-130	4		20
Carbon disulfide	94		90		70-130	4		20
2-Butanone	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 08 Batch: WG490649-4 WG490649-5								
4-Methyl-2-pentanone	90		91		70-130	1		20
2-Hexanone	102		99		70-130	3		20
Bromochloromethane	93		89		70-130	4		20
Tetrahydrofuran	86		84		70-130	2		20
2,2-Dichloropropane	100		98		70-130	2		20
1,2-Dibromoethane	104		103		70-130	1		20
1,3-Dichloropropane	114		114		70-130	0		20
1,1,1,2-Tetrachloroethane	99		97		70-130	2		20
Bromobenzene	104		102		70-130	2		20
n-Butylbenzene	120		117		70-130	3		20
sec-Butylbenzene	113		110		70-130	3		20
tert-Butylbenzene	108		105		70-130	3		20
o-Chlorotoluene	117		115		70-130	2		20
p-Chlorotoluene	119		116		70-130	3		20
1,2-Dibromo-3-chloropropane	118		99		70-130	18		20
Hexachlorobutadiene	74		74		70-130	0		20
Isopropylbenzene	115		112		70-130	3		20
p-Isopropyltoluene	115		112		70-130	3		20
Naphthalene	95		94		70-130	1		20
n-Propylbenzene	123		118		70-130	4		20
1,2,3-Trichlorobenzene	86		86		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 08 Batch: WG490649-4 WG490649-5								
1,2,4-Trichlorobenzene	89		88		70-130	1		20
1,3,5-Trimethylbenzene	116		112		70-130	4		20
1,2,4-Trimethylbenzene	119		117		70-130	2		20
Ethyl ether	105		103		70-130	2		20
Isopropyl Ether	84		84		70-130	0		20
Ethyl-Tert-Butyl-Ether	96		96		70-130	0		20
Tertiary-Amyl Methyl Ether	102		103		70-130	1		20
1,4-Dioxane	98		94		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		114		70-130
Toluene-d8	112		112		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	94		93		70-130

SEMIVOLATILES

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-03	Date Collected:	09/01/11 12:32
Client ID:	B-8 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 20:01		
Analyst:	JB		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	ND		ug/kg	300	--	1
Fluoranthene	ND		ug/kg	220	--	1
Naphthalene	ND		ug/kg	380	--	1
Benzo(a)anthracene	ND		ug/kg	220	--	1
Benzo(a)pyrene	ND		ug/kg	300	--	1
Benzo(b)fluoranthene	ND		ug/kg	220	--	1
Benzo(k)fluoranthene	ND		ug/kg	220	--	1
Chrysene	ND		ug/kg	220	--	1
Acenaphthylene	ND		ug/kg	300	--	1
Anthracene	ND		ug/kg	220	--	1
Benzo(ghi)perylene	ND		ug/kg	300	--	1
Fluorene	ND		ug/kg	380	--	1
Phenanthrene	ND		ug/kg	220	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	220	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	300	--	1
Pyrene	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	450	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	73		30-130
4-Terphenyl-d14	79		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-04	Date Collected:	09/01/11 12:50
Client ID:	B-8 5-10'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 20:26		
Analyst:	JB		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	ND		ug/kg	340	--	1
Fluoranthene	14000		ug/kg	250	--	1
Naphthalene	470		ug/kg	420	--	1
Benzo(a)anthracene	7100		ug/kg	250	--	1
Benzo(a)pyrene	6500		ug/kg	340	--	1
Benzo(b)fluoranthene	7800		ug/kg	250	--	1
Benzo(k)fluoranthene	3300		ug/kg	250	--	1
Chrysene	6400		ug/kg	250	--	1
Acenaphthylene	1100		ug/kg	340	--	1
Anthracene	1500		ug/kg	250	--	1
Benzo(ghi)perylene	4200		ug/kg	340	--	1
Fluorene	ND		ug/kg	420	--	1
Phenanthrene	6000		ug/kg	250	--	1
Dibenzo(a,h)anthracene	1200		ug/kg	250	--	1
Indeno(1,2,3-cd)Pyrene	4900		ug/kg	340	--	1
Pyrene	12000		ug/kg	250	--	1
2-Methylnaphthalene	ND		ug/kg	500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	50		30-130
2-Fluorobiphenyl	59		30-130
4-Terphenyl-d14	75		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-08	Date Collected:	09/01/11 14:32
Client ID:	B-9 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 20:51		
Analyst:	JB		
Percent Solids:	93%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	ND		ug/kg	290	--	1
Fluoranthene	8200		ug/kg	210	--	1
Naphthalene	ND		ug/kg	360	--	1
Benzo(a)anthracene	3700		ug/kg	210	--	1
Benzo(a)pyrene	3500		ug/kg	290	--	1
Benzo(b)fluoranthene	4400		ug/kg	210	--	1
Benzo(k)fluoranthene	1700		ug/kg	210	--	1
Chrysene	3600		ug/kg	210	--	1
Acenaphthylene	460		ug/kg	290	--	1
Anthracene	990		ug/kg	210	--	1
Benzo(ghi)perylene	2500		ug/kg	290	--	1
Fluorene	ND		ug/kg	360	--	1
Phenanthrene	3500		ug/kg	210	--	1
Dibenzo(a,h)anthracene	580		ug/kg	210	--	1
Indeno(1,2,3-cd)Pyrene	2900		ug/kg	290	--	1
Pyrene	7000		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	430	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	53		30-130
2-Fluorobiphenyl	63		30-130
4-Terphenyl-d14	76		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-09	Date Collected:	09/01/11 10:55
Client ID:	B-10 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 21:17		
Analyst:	JB		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	450		ug/kg	300	--	1
Fluoranthene	14000		ug/kg	230	--	1
Naphthalene	ND		ug/kg	380	--	1
Benzo(a)anthracene	5800		ug/kg	230	--	1
Benzo(a)pyrene	5000		ug/kg	300	--	1
Benzo(b)fluoranthene	6400		ug/kg	230	--	1
Benzo(k)fluoranthene	2500		ug/kg	230	--	1
Chrysene	5300		ug/kg	230	--	1
Acenaphthylene	740		ug/kg	300	--	1
Anthracene	2100		ug/kg	230	--	1
Benzo(ghi)perylene	3600		ug/kg	300	--	1
Fluorene	560		ug/kg	380	--	1
Phenanthrene	8200		ug/kg	230	--	1
Dibenzo(a,h)anthracene	1000		ug/kg	230	--	1
Indeno(1,2,3-cd)Pyrene	4100		ug/kg	300	--	1
Pyrene	12000		ug/kg	230	--	1
2-Methylnaphthalene	ND		ug/kg	460	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	34		30-130
2-Fluorobiphenyl	43		30-130
4-Terphenyl-d14	57		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-11	Date Collected:	09/01/11 09:05
Client ID:	B-11 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 21:42		
Analyst:	JB		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	ND		ug/kg	280	--	1
Fluoranthene	1100		ug/kg	210	--	1
Naphthalene	ND		ug/kg	350	--	1
Benzo(a)anthracene	610		ug/kg	210	--	1
Benzo(a)pyrene	630		ug/kg	280	--	1
Benzo(b)fluoranthene	740		ug/kg	210	--	1
Benzo(k)fluoranthene	300		ug/kg	210	--	1
Chrysene	620		ug/kg	210	--	1
Acenaphthylene	ND		ug/kg	280	--	1
Anthracene	ND		ug/kg	210	--	1
Benzo(ghi)perylene	430		ug/kg	280	--	1
Fluorene	ND		ug/kg	350	--	1
Phenanthrene	430		ug/kg	210	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	210	--	1
Indeno(1,2,3-cd)Pyrene	510		ug/kg	280	--	1
Pyrene	1000		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	420	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	45		30-130
2-Fluorobiphenyl	56		30-130
4-Terphenyl-d14	67		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-14	Date Collected:	09/01/11 13:17
Client ID:	B-12 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 22:08		
Analyst:	JB		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	ND		ug/kg	310	--	1
Fluoranthene	1300		ug/kg	230	--	1
Naphthalene	ND		ug/kg	390	--	1
Benzo(a)anthracene	750		ug/kg	230	--	1
Benzo(a)pyrene	650		ug/kg	310	--	1
Benzo(b)fluoranthene	840		ug/kg	230	--	1
Benzo(k)fluoranthene	320		ug/kg	230	--	1
Chrysene	740		ug/kg	230	--	1
Acenaphthylene	ND		ug/kg	310	--	1
Anthracene	ND		ug/kg	230	--	1
Benzo(ghi)perylene	460		ug/kg	310	--	1
Fluorene	ND		ug/kg	390	--	1
Phenanthrene	660		ug/kg	230	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	230	--	1
Indeno(1,2,3-cd)Pyrene	530		ug/kg	310	--	1
Pyrene	1300		ug/kg	230	--	1
2-Methylnaphthalene	ND		ug/kg	470	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**22**	Q	30-130
2-Fluorobiphenyl	30		30-130
4-Terphenyl-d14	34		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-16	Date Collected:	09/01/11 10:00
Client ID:	B-13 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8270C	Extraction Date:	09/13/11 18:45
Analytical Date:	09/15/11 22:33		
Analyst:	JB		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs - Westborough Lab						
Acenaphthene	640		ug/kg	300	--	1
Fluoranthene	13000		ug/kg	220	--	1
Naphthalene	ND		ug/kg	370	--	1
Benzo(a)anthracene	5600		ug/kg	220	--	1
Benzo(a)pyrene	5000		ug/kg	300	--	1
Benzo(b)fluoranthene	6500		ug/kg	220	--	1
Benzo(k)fluoranthene	2600		ug/kg	220	--	1
Chrysene	5900		ug/kg	220	--	1
Acenaphthylene	330		ug/kg	300	--	1
Anthracene	1600		ug/kg	220	--	1
Benzo(ghi)perylene	3200		ug/kg	300	--	1
Fluorene	600		ug/kg	370	--	1
Phenanthrene	9200		ug/kg	220	--	1
Dibenzo(a,h)anthracene	900		ug/kg	220	--	1
Indeno(1,2,3-cd)Pyrene	3700		ug/kg	300	--	1
Pyrene	11000		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	450	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	36		30-130
2-Fluorobiphenyl	44		30-130
4-Terphenyl-d14	64		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C
Analytical Date: 09/15/11 07:46
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 09/13/11 18:45

Parameter	Result	Qualifier	Units	RL	MDL
MCP PAHs - Westborough Lab for sample(s): 03-04,08-09,11,14,16 Batch: WG489662-1					
Acenaphthene	ND		ug/kg	260	--
Fluoranthene	ND		ug/kg	190	--
Naphthalene	ND		ug/kg	320	--
Benzo(a)anthracene	ND		ug/kg	190	--
Benzo(a)pyrene	ND		ug/kg	260	--
Benzo(b)fluoranthene	ND		ug/kg	190	--
Benzo(k)fluoranthene	ND		ug/kg	190	--
Chrysene	ND		ug/kg	190	--
Acenaphthylene	ND		ug/kg	260	--
Anthracene	ND		ug/kg	190	--
Benzo(ghi)perylene	ND		ug/kg	260	--
Fluorene	ND		ug/kg	320	--
Phenanthrene	ND		ug/kg	190	--
Dibenzo(a,h)anthracene	ND		ug/kg	190	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	260	--
Pyrene	ND		ug/kg	190	--
2-Methylnaphthalene	ND		ug/kg	390	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	31		30-130
2-Fluorobiphenyl	39		30-130
4-Terphenyl-d14	52		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP PAHs - Westborough Lab Associated sample(s): 03-04,08-09,11,14,16 Batch: WG489662-2 WG489662-3								
Acenaphthene	62		64		40-140	3		30
Fluoranthene	77		84		40-140	9		30
Naphthalene	52		56		40-140	7		30
Benzo(a)anthracene	71		75		40-140	5		30
Benzo(a)pyrene	66		66		40-140	0		30
Benzo(b)fluoranthene	77		75		40-140	3		30
Benzo(k)fluoranthene	70		72		40-140	3		30
Chrysene	80		74		40-140	8		30
Acenaphthylene	61		61		40-140	0		30
Anthracene	69		74		40-140	7		30
Benzo(ghi)perylene	81		80		40-140	1		30
Fluorene	64		72		40-140	12		30
Phenanthrene	68		72		40-140	6		30
Dibenzo(a,h)anthracene	80		79		40-140	1		30
Indeno(1,2,3-cd)Pyrene	83		83		40-140	0		30
Pyrene	77		85		40-140	10		30
2-Methylnaphthalene	56		55		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOOTT MILLS

Project Number: 911-173A

Lab Number: L1114144

Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP PAHs - Westborough Lab Associated sample(s): 03-04,08-09,11,14,16 Batch: WG489662-2 WG489662-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	53		55		30-130
2-Fluorobiphenyl	61		60		30-130
4-Terphenyl-d14	88		96		30-130

PCBS

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-01	Date Collected:	09/01/11 12:25
Client ID:	B-8 0-1'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 15:04	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	90%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.2	--	1
Aroclor 1221	ND		ug/kg	34.2	--	1
Aroclor 1232	ND		ug/kg	34.2	--	1
Aroclor 1242	ND		ug/kg	34.2	--	1
Aroclor 1248	119		ug/kg	34.2	--	1
Aroclor 1254	149		ug/kg	34.2	--	1
Aroclor 1260	ND		ug/kg	34.2	--	1
Aroclor 1262	ND		ug/kg	34.2	--	1
Aroclor 1268	ND		ug/kg	34.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	75		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-02	Date Collected:	09/01/11 12:29
Client ID:	B-8 1-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 15:16	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	83%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.1	--	1
Aroclor 1221	ND		ug/kg	38.1	--	1
Aroclor 1232	ND		ug/kg	38.1	--	1
Aroclor 1242	ND		ug/kg	38.1	--	1
Aroclor 1248	ND		ug/kg	38.1	--	1
Aroclor 1254	ND		ug/kg	38.1	--	1
Aroclor 1260	ND		ug/kg	38.1	--	1
Aroclor 1262	ND		ug/kg	38.1	--	1
Aroclor 1268	ND		ug/kg	38.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	51		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	59		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-04	Date Collected:	09/01/11 12:50
Client ID:	B-8 5-10'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 15:29	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	77%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	45.5	--	1
Aroclor 1221	ND		ug/kg	45.5	--	1
Aroclor 1232	ND		ug/kg	45.5	--	1
Aroclor 1242	ND		ug/kg	45.5	--	1
Aroclor 1248	ND		ug/kg	45.5	--	1
Aroclor 1254	ND		ug/kg	45.5	--	1
Aroclor 1260	ND		ug/kg	45.5	--	1
Aroclor 1262	ND		ug/kg	45.5	--	1
Aroclor 1268	ND		ug/kg	45.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	57		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-06	Date Collected:	09/01/11 14:27
Client ID:	B-9 0-1'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 15:41	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.4	--	1
Aroclor 1221	ND		ug/kg	36.4	--	1
Aroclor 1232	ND		ug/kg	36.4	--	1
Aroclor 1242	ND		ug/kg	36.4	--	1
Aroclor 1248	ND		ug/kg	36.4	--	1
Aroclor 1254	ND		ug/kg	36.4	--	1
Aroclor 1260	ND		ug/kg	36.4	--	1
Aroclor 1262	ND		ug/kg	36.4	--	1
Aroclor 1268	ND		ug/kg	36.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	81		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-07	D	Date Collected:	09/01/11 14:30
Client ID:	B-9 1-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 14:53		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	92%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	719	--	20
Aroclor 1221	ND		ug/kg	719	--	20
Aroclor 1232	ND		ug/kg	719	--	20
Aroclor 1242	ND		ug/kg	719	--	20
Aroclor 1248	4860		ug/kg	719	--	20
Aroclor 1260	ND		ug/kg	719	--	20
Aroclor 1262	ND		ug/kg	719	--	20
Aroclor 1268	ND		ug/kg	719	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-07	D	Date Collected:	09/01/11 14:30
Client ID:	B-9 1-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 14:53		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	92%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	3350		ug/kg	719	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-09	D	Date Collected:	09/01/11 10:55
Client ID:	B-10 0-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 15:05		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	83%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	382	--	10
Aroclor 1221	ND		ug/kg	382	--	10
Aroclor 1232	ND		ug/kg	382	--	10
Aroclor 1242	ND		ug/kg	382	--	10
Aroclor 1248	1050		ug/kg	382	--	10
Aroclor 1260	ND		ug/kg	382	--	10
Aroclor 1262	ND		ug/kg	382	--	10
Aroclor 1268	ND		ug/kg	382	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-09	D	Date Collected:	09/01/11 10:55
Client ID:	B-10 0-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 15:05		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	83%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	2270		ug/kg	382	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-10	D	Date Collected:	09/01/11 11:10
Client ID:	B-10 3-6'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 15:17		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	78%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	426	--	10
Aroclor 1221	ND		ug/kg	426	--	10
Aroclor 1232	ND		ug/kg	426	--	10
Aroclor 1242	ND		ug/kg	426	--	10
Aroclor 1248	ND		ug/kg	426	--	10
Aroclor 1254	691		ug/kg	426	--	10
Aroclor 1260	ND		ug/kg	426	--	10
Aroclor 1262	ND		ug/kg	426	--	10
Aroclor 1268	ND		ug/kg	426	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-11	D	Date Collected:	09/01/11 09:05
Client ID:	B-11 0-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 15:30		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	91%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	731	--	20
Aroclor 1221	ND		ug/kg	731	--	20
Aroclor 1232	ND		ug/kg	731	--	20
Aroclor 1242	ND		ug/kg	731	--	20
Aroclor 1248	6140		ug/kg	731	--	20
Aroclor 1260	ND		ug/kg	731	--	20
Aroclor 1262	ND		ug/kg	731	--	20
Aroclor 1268	ND		ug/kg	731	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-11	D	Date Collected:	09/01/11 09:05
Client ID:	B-11 0-3'		Date Received:	09/09/11
Sample Location:	Not Specified		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	97,8082		Extraction Date:	09/13/11 23:46
Analytical Date:	09/15/11 15:30		Cleanup Method1:	EPA 3665A
Analyst:	GT		Cleanup Date1:	09/14/11
Percent Solids:	91%		Cleanup Method2:	EPA 3660B
			Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	5050		ug/kg	731	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-12	Date Collected:	09/01/11 09:30
Client ID:	B-11 3-6'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 16:43	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	90%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.0	--	1
Aroclor 1221	ND		ug/kg	36.0	--	1
Aroclor 1232	ND		ug/kg	36.0	--	1
Aroclor 1242	ND		ug/kg	36.0	--	1
Aroclor 1248	ND		ug/kg	36.0	--	1
Aroclor 1254	ND		ug/kg	36.0	--	1
Aroclor 1260	ND		ug/kg	36.0	--	1
Aroclor 1262	ND		ug/kg	36.0	--	1
Aroclor 1268	ND		ug/kg	36.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	78		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-13	Date Collected:	09/01/11 12:32
Client ID:	B-8 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 16:55	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	40.0	--	1
Aroclor 1221	ND		ug/kg	40.0	--	1
Aroclor 1232	ND		ug/kg	40.0	--	1
Aroclor 1242	ND		ug/kg	40.0	--	1
Aroclor 1248	ND		ug/kg	40.0	--	1
Aroclor 1260	ND		ug/kg	40.0	--	1
Aroclor 1262	ND		ug/kg	40.0	--	1
Aroclor 1268	ND		ug/kg	40.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	77		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	85		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-13	Date Collected:	09/01/11 12:32
Client ID:	B-8 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 16:55	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	82%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	69.9		ug/kg	40.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	77		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	85		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-14	Date Collected:	09/01/11 13:17
Client ID:	B-12 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 17:07	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.1	--	1
Aroclor 1221	ND		ug/kg	37.1	--	1
Aroclor 1232	ND		ug/kg	37.1	--	1
Aroclor 1242	ND		ug/kg	37.1	--	1
Aroclor 1260	ND		ug/kg	37.1	--	1
Aroclor 1262	ND		ug/kg	37.1	--	1
Aroclor 1268	ND		ug/kg	37.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	83		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-14	Date Collected:	09/01/11 13:17
Client ID:	B-12 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 17:07	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1248	64.9		ug/kg	37.1	--	1
Aroclor 1254	184		ug/kg	37.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	83		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-15	Date Collected:	09/01/11 13:25
Client ID:	B-12 3-6'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:46
Analytical Date:	09/14/11 17:20	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.8	--	1
Aroclor 1221	ND		ug/kg	36.8	--	1
Aroclor 1232	ND		ug/kg	36.8	--	1
Aroclor 1242	ND		ug/kg	36.8	--	1
Aroclor 1248	ND		ug/kg	36.8	--	1
Aroclor 1254	ND		ug/kg	36.8	--	1
Aroclor 1260	ND		ug/kg	36.8	--	1
Aroclor 1262	ND		ug/kg	36.8	--	1
Aroclor 1268	ND		ug/kg	36.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	68		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	81		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-16	Date Collected:	09/01/11 10:00
Client ID:	B-13 0-3'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:47
Analytical Date:	09/14/11 17:32	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.3	--	1
Aroclor 1221	ND		ug/kg	38.3	--	1
Aroclor 1232	ND		ug/kg	38.3	--	1
Aroclor 1242	ND		ug/kg	38.3	--	1
Aroclor 1248	ND		ug/kg	38.3	--	1
Aroclor 1254	ND		ug/kg	38.3	--	1
Aroclor 1260	ND		ug/kg	38.3	--	1
Aroclor 1262	ND		ug/kg	38.3	--	1
Aroclor 1268	ND		ug/kg	38.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	71		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID:	L1114144-17	Date Collected:	09/01/11 10:10
Client ID:	B-13 3-6'	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082	Extraction Date:	09/13/11 23:47
Analytical Date:	09/14/11 17:44	Cleanup Method1:	EPA 3665A
Analyst:	GT	Cleanup Date1:	09/14/11
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/14/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.8	--	1
Aroclor 1221	ND		ug/kg	36.8	--	1
Aroclor 1232	ND		ug/kg	36.8	--	1
Aroclor 1242	ND		ug/kg	36.8	--	1
Aroclor 1248	ND		ug/kg	36.8	--	1
Aroclor 1254	ND		ug/kg	36.8	--	1
Aroclor 1260	ND		ug/kg	36.8	--	1
Aroclor 1262	ND		ug/kg	36.8	--	1
Aroclor 1268	ND		ug/kg	36.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	87		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	69		30-150

Project Name: BOOTT MILLS

Project Number: 911-173A

Lab Number: L1114144

Report Date: 09/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 09/14/11 18:33
Analyst: GT

Extraction Method: EPA 3546
Extraction Date: 09/13/11 23:46
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/14/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/14/11

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02,04,06-07,09-17 Batch: WG489660-1					
Aroclor 1016	ND		ug/kg	32.3	--
Aroclor 1221	ND		ug/kg	32.3	--
Aroclor 1232	ND		ug/kg	32.3	--
Aroclor 1242	ND		ug/kg	32.3	--
Aroclor 1248	ND		ug/kg	32.3	--
Aroclor 1254	ND		ug/kg	32.3	--
Aroclor 1260	ND		ug/kg	32.3	--
Aroclor 1262	ND		ug/kg	32.3	--
Aroclor 1268	ND		ug/kg	32.3	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	84		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOOTT MILLS

Project Number: 911-173A

Lab Number: L1114144

Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02,04,06-07,09-17 Batch: WG489660-2 WG489660-3								
Aroclor 1016	72		62		40-140	15		30
Aroclor 1260	70		59		40-140	17		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	72		61		30-150
Decachlorobiphenyl	66		53		30-150
2,4,5,6-Tetrachloro-m-xylene	74		63		30-150
Decachlorobiphenyl	75		63		30-150

METALS

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-03
Client ID: B-8 0-3'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 87%

Date Collected: 09/01/11 12:32
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Arsenic, Total	5.4		mg/kg	0.43	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Barium, Total	65		mg/kg	0.43	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Beryllium, Total	0.48		mg/kg	0.22	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Chromium, Total	29		mg/kg	0.43	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Lead, Total	170		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Mercury, Total	0.24		mg/kg	0.09	--	1	09/20/11 20:30	09/21/11 10:45	EPA 7471A	97,7471A	JP
Nickel, Total	22		mg/kg	1.1	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.43	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Vanadium, Total	20		mg/kg	0.43	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG
Zinc, Total	74		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 19:44	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-04
Client ID: B-8 5-10'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 77%

Date Collected: 09/01/11 12:50
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	2.5	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Arsenic, Total	2.7		mg/kg	0.50	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Barium, Total	32		mg/kg	0.50	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Beryllium, Total	0.51		mg/kg	0.25	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.50	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Chromium, Total	10		mg/kg	0.50	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Lead, Total	5.1		mg/kg	2.5	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Mercury, Total	ND		mg/kg	0.11	--	1	09/20/11 20:30	09/21/11 10:47	EPA 7471A	97,7471A	JP
Nickel, Total	6.4		mg/kg	1.3	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	2.5	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.50	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	2.5	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Vanadium, Total	13		mg/kg	0.50	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG
Zinc, Total	32		mg/kg	2.5	--	1	09/13/11 12:02	09/13/11 19:48	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-08
Client ID: B-9 0-3'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 93%

Date Collected: 09/01/11 14:32
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Arsenic, Total	6.7		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Barium, Total	37		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Beryllium, Total	0.27		mg/kg	0.20	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Chromium, Total	48		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Lead, Total	90		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Mercury, Total	0.32		mg/kg	0.09	--	1	09/20/11 20:30	09/21/11 10:48	EPA 7471A	97,7471A	JP
Nickel, Total	48		mg/kg	1.0	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Vanadium, Total	28		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG
Zinc, Total	43		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:51	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-09
Client ID: B-10 0-3'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 83%

Date Collected: 09/01/11 10:55
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	2.3	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Arsenic, Total	6.6		mg/kg	0.46	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Barium, Total	74		mg/kg	0.46	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Beryllium, Total	0.48		mg/kg	0.23	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.46	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Chromium, Total	19		mg/kg	0.46	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Lead, Total	1400		mg/kg	2.3	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Mercury, Total	0.35		mg/kg	0.09	--	1	09/20/11 20:30	09/21/11 10:50	EPA 7471A	97,7471A	JP
Nickel, Total	17		mg/kg	1.2	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	2.3	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.46	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	2.3	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Vanadium, Total	20		mg/kg	0.46	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG
Zinc, Total	100		mg/kg	2.3	--	1	09/13/11 12:02	09/13/11 19:54	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-11
Client ID: B-11 0-3'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 91%

Date Collected: 09/01/11 09:05
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	2.1	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Arsenic, Total	3.6		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Barium, Total	110		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Beryllium, Total	0.40		mg/kg	0.21	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Chromium, Total	22		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Lead, Total	1800		mg/kg	2.1	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Mercury, Total	0.79		mg/kg	0.08	--	1	09/20/11 20:30	09/21/11 10:52	EPA 7471A	97,7471A	JP
Nickel, Total	26		mg/kg	1.0	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	2.1	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	2.1	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Vanadium, Total	20		mg/kg	0.41	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG
Zinc, Total	170		mg/kg	2.1	--	1	09/13/11 12:02	09/13/11 19:58	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-14
Client ID: B-12 0-3'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 85%

Date Collected: 09/01/11 13:17
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Arsenic, Total	9.1		mg/kg	0.45	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Barium, Total	110		mg/kg	0.45	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Beryllium, Total	0.48		mg/kg	0.22	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.45	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Chromium, Total	34		mg/kg	0.45	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Lead, Total	620		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Mercury, Total	0.28		mg/kg	0.10	--	1	09/20/11 20:30	09/21/11 10:54	EPA 7471A	97,7471A	JP
Nickel, Total	41		mg/kg	1.1	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.45	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Vanadium, Total	27		mg/kg	0.45	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG
Zinc, Total	130		mg/kg	2.2	--	1	09/13/11 12:02	09/13/11 20:01	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-16
Client ID: B-13 0-3'
Sample Location: Not Specified
Matrix: Soil
Percent Solids: 87%

Date Collected: 09/01/11 10:00
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	ND		mg/kg	4.4	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Arsenic, Total	7.8		mg/kg	0.87	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Barium, Total	97		mg/kg	0.87	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Beryllium, Total	0.46		mg/kg	0.44	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.87	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Chromium, Total	19		mg/kg	0.87	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Lead, Total	110		mg/kg	4.4	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Mercury, Total	0.64		mg/kg	0.10	--	1	09/20/11 20:30	09/21/11 10:56	EPA 7471A	97,7471A	JP
Nickel, Total	20		mg/kg	2.2	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Selenium, Total	ND		mg/kg	4.4	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Silver, Total	ND		mg/kg	0.87	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Thallium, Total	ND		mg/kg	4.4	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Vanadium, Total	19		mg/kg	0.87	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG
Zinc, Total	95		mg/kg	4.4	--	2	09/13/11 12:02	09/13/11 20:04	EPA 3050B	97,6010B	MG

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 03-04,08-09,11,14,16 Batch: WG489583-1										
Antimony, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Arsenic, Total	ND		mg/kg	0.40	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Barium, Total	ND		mg/kg	0.40	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Beryllium, Total	ND		mg/kg	0.20	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Cadmium, Total	ND		mg/kg	0.40	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Chromium, Total	ND		mg/kg	0.40	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Lead, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Nickel, Total	ND		mg/kg	1.0	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Selenium, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Silver, Total	ND		mg/kg	0.40	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Thallium, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Vanadium, Total	ND		mg/kg	0.40	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG
Zinc, Total	ND		mg/kg	2.0	--	1	09/13/11 12:02	09/13/11 19:17	97,6010B	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 03-04,08-09,11,14,16 Batch: WG491144-1										
Mercury, Total	ND		mg/kg	0.08	--	1	09/20/11 20:30	09/21/11 10:40	97,7471A	JP

Prep Information

Digestion Method: EPA 7471A

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 03-04,08-09,11,14,16 Batch: WG489583-2 WG489583-3 SRM Lot Number: 0518-10-02								
Antimony, Total	91		96		4-196	5		30
Arsenic, Total	100		104		81-119	4		30
Barium, Total	100		104		83-118	4		30
Beryllium, Total	104		104		83-117	0		30
Cadmium, Total	98		98		82-117	0		30
Chromium, Total	101		101		80-119	0		30
Lead, Total	98		100		80-120	2		30
Nickel, Total	104		99		82-117	5		30
Selenium, Total	102		106		80-120	4		30
Silver, Total	104		105		66-134	1		30
Thallium, Total	101		101		79-120	0		30
Vanadium, Total	98		98		79-121	0		30
Zinc, Total	97		100		82-119	3		30
MCP Total Metals - Westborough Lab Associated sample(s): 03-04,08-09,11,14,16 Batch: WG491144-2 WG491144-3 SRM Lot Number: 0518-10-02								
Mercury, Total	95		98		67-133	3		30

INORGANICS
&
MISCELLANEOUS

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-01
Client ID: B-8 0-1'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 12:25
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-02
Client ID: B-8 1-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 12:29
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-03
Client ID: B-8 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 12:32
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-04
Client ID: B-8 5-10'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 12:50
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-05
Client ID: B-8 10-15'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 12:57
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-06
Client ID: B-9 0-1'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 14:27
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-07
Client ID: B-9 1-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 14:30
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-08
Client ID: B-9 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 14:32
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-09
Client ID: B-10 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 10:55
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-10
Client ID: B-10 3-6'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 11:10
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-11
Client ID: B-11 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 09:05
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-12
Client ID: B-11 3-6'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 09:30
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-13
Client ID: B-8 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 12:32
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-14
Client ID: B-12 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 13:17
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-15
Client ID: B-12 3-6'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 13:25
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-16
Client ID: B-13 0-3'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 10:00
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

SAMPLE RESULTS

Lab ID: L1114144-17
Client ID: B-13 3-6'
Sample Location: Not Specified
Matrix: Soil

Date Collected: 09/01/11 10:10
Date Received: 09/09/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89		%	0.10	NA	1	-	09/19/11 16:20	30,2540G	MD

Lab Duplicate Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-17 QC Batch ID: WG490836-1 QC Sample: L1114144-03 Client ID: B-8 0-3'						
Solids, Total	87	87	%	0		20

Project Name: BOOTT MILLS
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Report Date: 09/21/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1114144-01A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-02A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-03A	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260H-10(14)
L1114144-03B	Vial water preserved	A	N/A	6	Y	Absent	MCP-PAH-10(14)
L1114144-03C	Vial water preserved	A	N/A	6	Y	Absent	MCP-PAH-10(14)
L1114144-03E	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),TS(7),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PAH-10(14),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-04A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7),MCP-PAH-10(14)
L1114144-04B	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-04C	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260H-10(14)
L1114144-04D	Vial water preserved	A	N/A	6	Y	Absent	MCP-8082-10(365)
L1114144-04E	Vial water preserved	A	N/A	6	Y	Absent	MCP-8082-10(365)
L1114144-04F	Vial water preserved	A	N/A	6	Y	Absent	MCP-8082-10(365)

*Values in parentheses indicate holding time in days

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1114144-05A	Vial water preserved	A	N/A	6	Y	Absent	TS(7)
L1114144-05B	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260H-10(14)
L1114144-05C	Vial water preserved	A	N/A	6	Y	Absent	TS(7)
L1114144-05D	Vial water preserved	A	N/A	6	Y	Absent	TS(7)
L1114144-05E	Amber 120ml unpreserved	A	N/A	6	Y	Absent	TS(7)
L1114144-06A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-07A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-08A	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),TS(7),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PAH-10(14),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-08B	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260H-10(14)
L1114144-08C	Vial water preserved	A	N/A	6	Y	Absent	MCP-PAH-10(14)
L1114144-08D	Vial water preserved	A	N/A	6	Y	Absent	MCP-PAH-10(14)
L1114144-08E	Vial water preserved	A	N/A	6	Y	Absent	MCP-PAH-10(14)
L1114144-09A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),MCP-PAH-10(14)
L1114144-09B	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),TS(7),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-10A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-11A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),MCP-PAH-10(14)

*Values in parentheses indicate holding time in days

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1114144-11B	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),TS(7),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-11C	Vial MeOH preserved	A	N/A	6	Y	Absent	MCP-8260H-10(14)
L1114144-11D	Vial water preserved	A	N/A	6	Y	Absent	MCP-8082-10(365)
L1114144-11E	Vial water preserved	A	N/A	6	Y	Absent	MCP-8082-10(365)
L1114144-11F	Vial water preserved	A	N/A	6	Y	Absent	MCP-8082-10(365)
L1114144-12A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-13A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-14A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),MCP-PAH-10(14)
L1114144-14B	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),TS(7),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-15A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)
L1114144-16A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),MCP-PAH-10(14)
L1114144-16B	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),TS(7),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1114144-17A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)

*Values in parentheses indicate holding time in days

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114144
Report Date: 09/21/11

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1114144-17B	Amber 250ml unpreserved	A	N/A	6	Y	Absent	MCP-8082-10(365),TS(7)

Container Comments

L1114144-01A

L1114144-03E

L1114144-04A

L1114144-08A

L1114144-09A

L1114144-10A

L1114144-11A

L1114144-12A

L1114144-13A

L1114144-16A

L1114144-17A

*Values in parentheses indicate holding time in days

Project Name: BOOTT MILLS **Lab Number:** L1114144

Project Number: 911-173A **Report Date:** 09/21/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114144
Report Date: 09/21/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: BOOTT MILLS **Lab Number:** L1114144
Project Number: 911-173A **Report Date:** 09/21/11

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 19, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1114144

GROUNDWATER ANALYTICAL

228 Main Street, PO Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 - Fax (508) 759-4475
www.groundwateranalytical.com

CHAIN OF CUSTODY RECORD & WORK ORDER

Project Name: Booth Mills	Firm: GEC
Project Number: 911-173A	Address: 60 Brooks Dr.
Sampler Name: M Wilson	City/State/Zip: Braintree MA 02184
Project Manager: Sam Butcher	Telephone: 781 356-9140
E-mail Address: mwilson@goldsmithenvironmental.com	Fax:

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND
- ☐ 10 Business Days
- ☒ 5 Business Days
- ☐ RUSH (RAN-_____)

BILLING INFORMATION
PO No. 911-173A

ANALYSIS REQUEST

Sampling Information DATE	TIME	SAMPLE IDENTIFICATION	Matrix: Groundwater	Drinking Water	Wastewater	Soil	Other Solid	Oil/Organic Solid	Other	Type: Composite	Grab	Container(s): 40mL VOA Vial	60 mL/ 2 oz. Glass	120 mL/ 4ox Amber Glass	250 mL/ 8 oz. Glass	500 mL/ 16 oz Glass	1L/ 32 oz Amber Glass	250 mL/ 8 oz Plastic	500 mL/ 16 oz Plastic	1 L/ 32 oz Plastic	120 mL Sterile Plastic	Filtered: YES	NO	LAB NUMBER (lab use only)	8082 (PCBs)	8260B (VOCs)	MA VH Metals	8270C (PAHs)
9-1-11	1225	B-8 0-1'				X					X			X												X		
9-1-11	1229	B-8 1-3'				X								X												X		
9-1-11	1232	B-8 0-3'				X						4			X										X	X	X	
9-1-11	1250	B-8 5-10'				X						4		1	1										X	X	X	X
9-1-11	1257	B-8 10-15'				X						4		1												X		
9-1-11	1427	B-9 0-1'				X						4			1										X			
9-1-11	1430	B-9 1-3'				X						4		1	1										X			
9-1-11	1432	B-9 0-3'				X						4		1												X	X	X
9-1-11	1055	B-10 0-3'				X						4		1											X	X	X	X
9-1-11	1110	B-10 3-6'				X								1											X			

REMARKS / SPECIAL INSTRUCTIONS
- ☒ MCP Data Certification Required
- ☐ MCP Drinking Water Sample Included
- ☐ Analyze Duplicates and Trip Blanks only if positive results.

Additional Comments:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard
☐ CT	☒ MCP GW-1/S-1
☐ ME	☐ MCP GW-1/S-2
☒ MA	☐ NY STARS
☐ NH	☐ Drinking Water
☐ NY	☐ Wastewater
☐ RI	☐ Waste Disposal
☐ VT	☐ Dredge Materials

Project Specific QA

Many regulatory programs and US EPA-approved 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 pre-arranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD, and Sample Duplicate required an additional sample aliquot.

Project Specific QA Required
☐ Sample Duplicate ☐ MS ☐ MSDS

CHAIN OF CUSTODY RECORD

Note: All samples submitted are subject to Standard Terms and Conditions

Relinquished By:	Date	Time	Received By:
[signature]	9-2-11	1652	[signature]
[signature]	9/2/11	1815	[signature]
[signature]	9/2/11	1650	[signature]

Method of Shipment: ☒ GWA Courier ☐ Express Mail ☐ Fed Ex ☐ Consultant Courier

Temp 2.9

ALPHA Job # _____

GROUNDWATER ANALYTICAL

228 Main Street, PO Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 - Fax (508) 759-4475
www.groundwateranalytical.com

CHAIN OF CUSTODY RECORD & WORK ORDER

Project Name: BOOT HILL	Firm:
Project Number:	Address:
Sampler Name:	City/State/Zip:
Project Manager:	Telephone:
E-mail Address:	Fax:

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND
- ☐ 10 Business Days
- ☒ 5 Business Days
- ☐ RUSH (RAN-_____)

BILLING INFORMATION
PO No. 911-1234

ANALYSIS REQUEST

Sampling Information DATE	TIME	SAMPLE IDENTIFICATION	Matrix: Groundwater	Drinking Water	Wastewater	Soil	Other Solid	Oil/Organic Solid	Other	Type: Composite	Grab	Container(s): 40mL VOA Vial	60 mL/ 2 oz. Glass	120 mL/ 4ox Amber Glass	250 mL/ 8 oz Glass	500 mL/ 16 oz Glass	1L/ 32 oz Amber Glass	250 mL/ 8 oz Plastic	500 mL/ 16 oz Plastic	1 L/ 32 oz Plastic	120 mL Sterile Plastic	Filtered: YES	NO	LAB NUMBER (lab use only)	8082 PCBs	8260B VOCs	MCP 14 Metals	8270C PAHs
9-1-11	905	B-11 0-3				X					X	4		1											X	X	X	X
9-1-11	930	B-11 3-6				X								1											X			
9-1-11	1232	B-8 0-3				X								X											X			
9-1-11	1317	B-12 0-3				X								X	X										X		X	X
9-1-11	1325	B-12 3-6				X								1											X			
9-1-11	1000	B-13 0-3				X								1	1										X		X	X
9-1-11	1010	B-13 3-6				X					✓			X											X			

REMARKS / SPECIAL INSTRUCTIONS
- ☒ MCP Data Certification Required
- ☐ MCP Drinking Water Sample Included
- ☐ Analyze Duplicates and Trip Blanks only if positive results.

Additional Comments:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard
☐ CT	☒ MCP GW-1/S-1
☐ ME	☐ MCP GW-1/S-2
☒ MA	☐ NY STARS
☐ NH	☐ Drinking Water
☐ NY	☐ Wastewater
☐ RI	☐ Waste Disposal
☐ VT	☐ Dredge Materials

Project Specific QA

Many regulatory programs and US EPA-approved 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 pre-arranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD, and Sample Duplicate required an additional sample aliquot.

Project Specific QA Required
☐ Sample Duplicate ☐ MS ☐ MSDS

CHAIN OF CUSTODY RECORD

Note: All samples submitted are subject to Standard Terms and Conditions

Relinquished By:	Date	Time	Received By:
[illegible]	9-2-11	1652	[illegible]
[illegible]	9/2/11	1815	[illegible]
[illegible]	9/9/11	1650	[illegible]

Method of Shipment:
☐ GWA Courier ☐ Express Mail ☐ Fed Ex ☐ Consultant Courier

Temp 2.9

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1114144

Instrument ID: Charlie.i Calibration Date: 18-SEP-2011 Time: 09:50

Lab File ID: 0918A01 Init. Calib. Date(s): 08-SEP-2 08-SEP-2

Sample No: 8260 CCAL Init. Calib. Times : 09:00 11:46

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.23797	.18378	.1	23	20	F
chloromethane	.45035	.34034	.1	24	20	F
vinyl chloride	.2874	.27293	.1	5	20	
bromomethane	.0901	.08633	.1	4	20	F
chloroethane	100	101	.1	-1	20	
trichlorofluoromethane	.22065	.2163	.1	2	20	
ethyl ether	.11907	.12458	.05	-5	20	
1,1,-dichloroethene	.16745	.14965	.1	11	20	
carbon disulfide	.58018	.54324	.1	6	20	
methylene chloride	100	90.174	.1	10	20	
acetone	100	92.305	.1	8	20	
trans-1,2-dichloroethene	.18204	.1625	.1	11	20	
methyl tert butyl ether	.55756	.53923	.1	3	20	
Diisopropyl Ether	1.0021	.84352	.05	16	20	
1,1-dichloroethane	.41378	.3977	.2	4	20	
Ethyl-Tert-Butyl-Ether	.80731	.77659	.05	4	20	
cis-1,2-dichloroethene	.19221	.17669	.1	8	20	
2,2-dichloropropane	.26883	.26796	.05	0	20	
bromochloromethane	.09351	.0872	.05	7	20	
chloroform	.33707	.33412	.2	1	20	
carbontetrachloride	.2262	.21165	.1	6	20	
tetrahydrofuran	.22841	.19727	.05	14	20	
1,1,1-trichloroethane	.30662	.29218	.1	5	20	
2-butanone	.2929	.26558	.1	9	20	
1,1-dichloropropene	.24468	.24728	.05	-1	20	
benzene	.71316	.69866	.5	2	20	
Tertiary-Amyl Methyl Ether	.47775	.4877	.05	-2	20	
1,2-dichloroethane	.37881	.39432	.1	-4	20	
trichloroethene	.20184	.19052	.2	6	20	
dibromomethane	.12436	.12122	.05	3	20	
1,2-dichloropropane	.23006	.2092	.1	9	20	
bromodichloromethane	.24678	.23677	.2	4	20	
1,4-dioxane	.00441	.00431	.05	2	20	F
cis-1,3-dichloropropene	.28742	.27937	.2	3	20	
toluene	.56564	.60966	.4	-8	20	
4-methyl-2-pentanone	.16118	.14587	.1	9	20	
tetrachloroethene	.24802	.24097	.2	3	20	
trans-1,3-dichloropropene	.34499	.41266	.1	-20	20	

FORM VII MCP-8260H-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1114144

Instrument ID: Charlie.i Calibration Date: 18-SEP-2011 Time: 09:50

Lab File ID: 0918A01 Init. Calib. Date(s): 08-SEP-2 08-SEP-2

Sample No: 8260 CCAL Init. Calib. Times : 09:00 11:46

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.18374	.21119	.1	-15	20	
chlorodibromomethane	.22767	.22347	.1	2	20	
1,3-dichloropropane	.37472	.42575	.05	-14	20	
1,2-dibromoethane	.23007	.23933	.1	-4	20	
2-hexanone	.4691	.47995	.1	-2	20	
chlorobenzene	.63376	.64836	.5	-2	20	
ethyl benzene	1.0892	1.2234	.1	-12	20	
1,1,1,2-tetrachloroethane	.22996	.22857	.05	1	20	
p/m xylene	.39883	.45007	.1	-13	20	
o xylene	.37647	.42301	.3	-12	20	
styrene	.64679	.75076	.3	-16	20	
bromoform	.28713	.30092	.1	-5	20	
isopropylbenzene	1.6906	1.9393	.1	-15	20	
bromobenzene	.46098	.47998	.05	-4	20	
n-propylbenzene	2.1295	2.6142	.05	-23	20	F
1,1,2,2,-tetrachloroethane	.58605	.68158	.3	-16	20	
2-chlorotoluene	1.37	1.6066	.05	-17	20	
1,3,5-trimethybenzene	1.5205	1.7641	.05	-16	20	
1,2,3-trichloropropane	.5164	.67927	.05	-32	20	F
4-chorotoluene	1.4219	1.6887	.05	-19	20	
tert-butylbenzene	1.2169	1.3163	.05	-8	20	
1,2,4-trimethylbenzene	1.5291	1.8247	.05	-19	20	
sec-butylbenzene	1.8857	2.1242	.05	-13	20	
p-isopropyltoluene	1.5170	1.7518	.05	-15	20	
1,3-dichlorobenzene	.92636	.99125	.6	-7	20	
1,4-dichlorobenzene	.99121	1.0413	.5	-5	20	
n-butylbenzene	1.6008	1.9282	.05	-20	20	F
1,2-dichlorobenzene	.89246	.89947	.4	-1	20	
1,2-dibromo-3-chloropropane	.14782	.1748	.05	-18	20	
hexachlorobutadiene	.29778	.22074	.05	26	20	F
1,2,4-trichlorobenzene	.60693	.53838	.2	11	20	
naphthalene	1.8125	1.7297	.05	5	20	
1,2,3-trichlorobenzene	.54061	.46357	.05	14	20	
dibromofluoromethane	.26649	.25145	.05	6	30	
1,2-dichloroethane-d4	.38462	.44161	.05	-15	30	
toluene-d8	1.1950	1.3390	.05	-12	30	
4-bromofluorobenzene	.90135	.95291	.05	-6	30	

FORM VII MCP-8260H-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1114144

Instrument ID: Charlie.i Calibration Date: 15-SEP-2011 Time: 07:29

Lab File ID: 0915A02 Init. Calib. Date(s): 08-SEP-2 08-SEP-2

Sample No: 8260 CCAL Init. Calib. Times : 09:00 11:46

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.23797	.19574	.1	18	20	
chloromethane	.45035	.427	.1	5	20	
vinyl chloride	.2874	.27636	.1	4	20	
bromomethane	.0901	.08789	.1	2	20	F
chloroethane	100	98.982	.1	1	20	
trichlorofluoromethane	.22065	.21853	.1	1	20	
ethyl ether	.11907	.13347	.05	-12	20	
1,1,-dichloroethene	.16745	.15841	.1	5	20	
carbon disulfide	.58018	.4799	.1	17	20	
methylene chloride	100	111	.1	-11	20	
acetone	100	100	.1	0	20	
trans-1,2-dichloroethene	.18204	.17653	.1	3	20	
methyl tert butyl ether	.55756	.56795	.1	-2	20	
Diisopropyl Ether	1.0021	.98871	.05	1	20	
1,1-dichloroethane	.41378	.42102	.2	-2	20	
Ethyl-Tert-Butyl-Ether	.80731	.85633	.05	-6	20	
cis-1,2-dichloroethene	.19221	.19678	.1	-2	20	
2,2-dichloropropane	.26883	.27658	.05	-3	20	
bromochloromethane	.09351	.09638	.05	-3	20	
chloroform	.33707	.34704	.2	-3	20	
carbontetrachloride	.2262	.2278	.1	-1	20	
tetrahydrofuran	.22841	.2204	.05	4	20	
1,1,1-trichloroethane	.30662	.30239	.1	1	20	
2-butanone	.2929	.29738	.1	-2	20	
1,1-dichloropropene	.24468	.25087	.05	-3	20	
benzene	.71316	.74863	.5	-5	20	
Tertiary-Amyl Methyl Ether	.47775	.51201	.05	-7	20	
1,2-dichloroethane	.37881	.39147	.1	-3	20	
trichloroethene	.20184	.19871	.2	2	20	
dibromomethane	.12436	.12988	.05	-4	20	
1,2-dichloropropane	.23006	.23254	.1	-1	20	
bromodichloromethane	.24678	.24709	.2	0	20	
1,4-dioxane	.00441	.00493	.05	-12	20	F
cis-1,3-dichloropropene	.28742	.29868	.2	-4	20	
toluene	.56564	.55583	.4	2	20	
4-methyl-2-pentanone	.16118	.16236	.1	-1	20	
tetrachloroethene	.24802	.22715	.2	8	20	
trans-1,3-dichloropropene	.34499	.36968	.1	-7	20	

FORM VII MCP-8260H-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1114144

Instrument ID: Charlie.i Calibration Date: 15-SEP-2011 Time: 07:29

Lab File ID: 0915A02 Init. Calib. Date(s): 08-SEP-2 08-SEP-2

Sample No: 8260 CCAL Init. Calib. Times : 09:00 11:46

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.18374	.19646	.1	-7	20	
chlorodibromomethane	.22767	.21161	.1	7	20	
1,3-dichloropropane	.37472	.38784	.05	-4	20	
1,2-dibromoethane	.23007	.22308	.1	3	20	
2-hexanone	.4691	.43741	.1	7	20	
chlorobenzene	.63376	.59871	.5	6	20	
ethyl benzene	1.0892	1.1023	.1	-1	20	
1,1,1,2-tetrachloroethane	.22996	.21526	.05	6	20	
p/m xylene	.39883	.41428	.1	-4	20	
o xylene	.37647	.39037	.3	-4	20	
styrene	.64679	.6881	.3	-6	20	
bromoform	.28713	.30563	.1	-6	20	
isopropylbenzene	1.6906	1.8536	.1	-10	20	
bromobenzene	.46098	.48309	.05	-5	20	
n-propylbenzene	2.1295	2.4268	.05	-14	20	
1,1,2,2,-tetrachloroethane	.58605	.63906	.3	-9	20	
2-chlorotoluene	1.37	1.5154	.05	-11	20	
1,3,5-trimethybenzene	1.5205	1.6592	.05	-9	20	
1,2,3-trichloropropane	.5164	.60471	.05	-17	20	
4-chorotoluene	1.4219	1.5744	.05	-11	20	
tert-butylbenzene	1.2169	1.2679	.05	-4	20	
1,2,4-trimethylbenzene	1.5291	1.6872	.05	-10	20	
sec-butylbenzene	1.8857	1.8906	.05	0	20	
p-isopropyltoluene	1.5170	1.4566	.05	4	20	
1,3-dichlorobenzene	.92636	.86211	.6	7	20	
1,4-dichlorobenzene	.99121	.91627	.5	8	20	
n-butylbenzene	1.6008	1.4873	.05	7	20	
1,2-dichlorobenzene	.89246	.7968	.4	11	20	
1,2-dibromo-3-chloropropane	.14782	.12806	.05	13	20	
hexachlorobutadiene	.29778	.22063	.05	26	20	F
1,2,4-trichlorobenzene	.60693	.53055	.2	13	20	
naphthalene	1.8125	1.5943	.05	12	20	
1,2,3-trichlorobenzene	.54061	.46054	.05	15	20	
dibromofluoromethane	.26649	.25724	.05	3	30	
1,2-dichloroethane-d4	.38462	.38955	.05	-1	30	
toluene-d8	1.1950	1.2025	.05	-1	30	
4-bromofluorobenzene	.90135	1.0408	.05	-15	30	

FORM VII MCP-8260H-10

```
JOB: L1114121     REPORT STYLE: Data Usability Report
001: Cover & Signature Pages - OK
005: Mass. MCP Questions - 2010 - OK
006: Narrative Page(s) - OK
010: Cover Page - OK
011: Volatiles Sample Results - OK
012: Volatiles Blank Report - OK
013: Volatiles LCS Report - OK
019: Cover Page - OK
020: Semivolatiles Sample Results - OK
021: Semivolatiles Blank Report - OK
022: Semivolatiles LCS Report - OK
070: Cover Page - OK
071: PCB Sample Results - OK
072: PCB Blank Report - OK
074: PCB LCS Report - OK
100: Metals Sample Results - OK
101: Metals Blank Report - OK
102: Metals LCS Report - OK
104: Metals Matrix Spike Report - OK
510: Container Report - OK
520: Glossary - OK
540: Reference Report - OK
------------------------------------------------------------
No results found for sample L1114121-01 for product SUB-VPH
```

ANALYTICAL REPORT

Lab Number:	L1114121
Client:	Goldman Environmental Consultants 60 Brooks Drive Braintree, MA 02184
ATTN:	Sam Butcher
Phone:	(781) 356-9140
Project Name:	BOOTT MILLS
Project Number:	911-173A
Report Date:	09/26/11

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Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1114121-01	GEC-1	Not Specified	09/07/11 12:15
L1114121-02	GEC-1 (FILTERED)	Not Specified	09/07/11 12:15

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
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 a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
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

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: BOOTT MILLS **Lab Number:** L1114121
Project Number: 911-173A **Report Date:** 09/26/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

MCP Related Narratives

Sample Receipt

The samples associated with L1114121 were transferred from Groundwater Analytical to Alpha Analytical on Friday, September 9, 2011. It is assumed that sample integrity was maintained prior to receipt.
The samples were Field Filtered for Dissolved Metals only.

Project Name: BOOTT MILLS **Lab Number:** L1114121
Project Number: 911-173A **Report Date:** 09/26/11

Case Narrative (continued)

Volatile Organics

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG489818-2 LCSD recoveries, associated with L1114121-01, are below the individual acceptance criteria for cis-1,3-Dichloropropene (69%) and Carbon disulfide (67%), but within the overall method allowances. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG489818-1 LCS recovery, associated with L1114121-01, is below the acceptance criteria for Acetone (69%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

The WG489818-1/-2 LCS/LCSD RPD, associated with L1114121-01, is above the acceptance criteria for 1,2-Dibromo-3-chloropropane (26%).

The initial calibration, associated with L1114121-01, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00501), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone, 1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane and Hexachlorobutadiene.

The continuing calibration standard, associated with L1114121-01, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Semivolatile Organics

In reference to question I:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

Project Name: BOOTT MILLS **Lab Number:** L1114121
Project Number: 911-173A **Report Date:** 09/26/11

Case Narrative (continued)

Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/26/11

ORGANICS

VOLATILES

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114121
Report Date: 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-01	Date Collected:	09/07/11 12:15
Client ID:	GEC-1	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	09/13/11 20:23		
Analyst:	TT		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

SAMPLE RESULTS

Lab ID: L1114121-01 Date Collected: 09/07/11 12:15

Client ID: GEC-1 Date Received: 09/09/11

Sample Location: Not Specified Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-01	Date Collected:	09/07/11 12:15
Client ID:	GEC-1	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	90		70-130

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/13/11 13:21
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG489818-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/13/11 13:21
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG489818-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/13/11 13:21
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG489818-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG489818-1 WG489818-2								
Methylene chloride	90		87		70-130	3		20
1,1-Dichloroethane	86		81		70-130	6		20
Chloroform	82		79		70-130	4		20
Carbon tetrachloride	79		78		70-130	1		20
1,2-Dichloropropane	84		77		70-130	9		20
Dibromochloromethane	82		80		70-130	2		20
1,1,2-Trichloroethane	96		93		70-130	3		20
Tetrachloroethene	94		96		70-130	2		20
Chlorobenzene	84		87		70-130	4		20
Trichlorofluoromethane	96		93		70-130	3		20
1,2-Dichloroethane	83		81		70-130	2		20
1,1,1-Trichloroethane	86		83		70-130	4		20
Bromodichloromethane	83		70		70-130	17		20
trans-1,3-Dichloropropene	88		82		70-130	7		20
cis-1,3-Dichloropropene	72		**69**	Q	70-130	4		20
1,1-Dichloropropene	87		86		70-130	1		20
Bromoform	84		88		70-130	5		20
1,1,2,2-Tetrachloroethane	95		92		70-130	3		20
Benzene	85		80		70-130	6		20
Toluene	97		87		70-130	11		20
Ethylbenzene	90		85		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG489818-1 WG489818-2								
Chloromethane	76		70		70-130	8		20
Bromomethane	84		81		70-130	4		20
Vinyl chloride	79		72		70-130	9		20
Chloroethane	92		88		70-130	4		20
1,1-Dichloroethene	85		83		70-130	2		20
trans-1,2-Dichloroethene	85		82		70-130	4		20
Trichloroethene	87		84		70-130	4		20
1,2-Dichlorobenzene	94		96		70-130	2		20
1,3-Dichlorobenzene	93		97		70-130	4		20
1,4-Dichlorobenzene	93		96		70-130	3		20
Methyl tert butyl ether	83		77		70-130	8		20
p/m-Xylene	87		86		70-130	1		20
o-Xylene	90		88		70-130	2		20
cis-1,2-Dichloroethene	88		82		70-130	7		20
Dibromomethane	90		87		70-130	3		20
1,2,3-Trichloropropane	96		97		70-130	1		20
Styrene	92		88		70-130	4		20
Dichlorodifluoromethane	81		78		70-130	4		20
Acetone	**69**	Q	72		70-130	4		20
Carbon disulfide	71		**67**	Q	70-130	6		20
2-Butanone	77		71		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG489818-1 WG489818-2								
4-Methyl-2-pentanone	83		80		70-130	4		20
2-Hexanone	98		90		70-130	9		20
Bromochloromethane	89		83		70-130	7		20
Tetrahydrofuran	78		75		70-130	4		20
2,2-Dichloropropane	87		85		70-130	2		20
1,2-Dibromoethane	94		90		70-130	4		20
1,3-Dichloropropane	95		93		70-130	2		20
1,1,1,2-Tetrachloroethane	89		88		70-130	1		20
Bromobenzene	96		97		70-130	1		20
n-Butylbenzene	86		92		70-130	7		20
sec-Butylbenzene	90		90		70-130	0		20
tert-Butylbenzene	93		95		70-130	2		20
o-Chlorotoluene	95		97		70-130	2		20
p-Chlorotoluene	96		111		70-130	14		20
1,2-Dibromo-3-chloropropane	79		103		70-130	**26**	Q	20
Hexachlorobutadiene	91		99		70-130	8		20
Isopropylbenzene	87		84		70-130	4		20
p-Isopropyltoluene	92		94		70-130	2		20
Naphthalene	84		91		70-130	8		20
n-Propylbenzene	98		95		70-130	3		20
1,2,3-Trichlorobenzene	92		95		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG489818-1 WG489818-2								
1,2,4-Trichlorobenzene	89		102		70-130	14		20
1,3,5-Trimethylbenzene	95		95		70-130	0		20
1,2,4-Trimethylbenzene	93		98		70-130	5		20
Ethyl ether	88		86		70-130	2		20
Isopropyl Ether	89		83		70-130	7		20
Ethyl-Tert-Butyl-Ether	91		84		70-130	8		20
Tertiary-Amyl Methyl Ether	89		82		70-130	8		20
1,4-Dioxane	70		72		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		93		70-130
Toluene-d8	112		108		70-130
4-Bromofluorobenzene	97		103		70-130
Dibromofluoromethane	98		89		70-130

SEMIVOLATILES

Project Name: BOOTT MILLS
Project Number: 911-173A
Lab Number: L1114121
Report Date: 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-01	Date Collected:	09/07/11 12:15
Client ID:	GEC-1	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8270C-SIM	Extraction Date:	09/13/11 15:29
Analytical Date:	09/14/11 23:59		
Analyst:	JC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	--	1
Fluoranthene	0.25		ug/l	0.20	--	1
Naphthalene	ND		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	0.28		ug/l	0.20	--	1
Benzo(b)fluoranthene	0.27		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	ND		ug/l	0.20	--	1
Benzo(ghi)perylene	0.36		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)Pyrene	0.37		ug/l	0.20	--	1
Pyrene	0.24		ug/l	0.20	--	1
2-Methylnaphthalene	ND		ug/l	0.20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		30-130
2-Fluorobiphenyl	69		30-130
4-Terphenyl-d14	75		30-130

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-02	Date Collected:	09/07/11 12:15
Client ID:	GEC-1 (FILTERED)	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8270C-SIM	Extraction Date:	09/13/11 15:29
Analytical Date:	09/15/11 00:26		
Analyst:	JC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.20	--	1
Naphthalene	ND		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	ND		ug/l	0.20	--	1
Benzo(b)fluoranthene	ND		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	ND		ug/l	0.20	--	1
Benzo(ghi)perylene	ND		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--	1
Pyrene	ND		ug/l	0.20	--	1
2-Methylnaphthalene	ND		ug/l	0.20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		30-130
2-Fluorobiphenyl	78		30-130
4-Terphenyl-d14	82		30-130

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C-SIM
Analytical Date: 09/14/11 09:27
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 09/13/11 15:29

Parameter	Result	Qualifier	Units	RL	MDL
MCP PAHs by SIM - Westborough Lab for sample(s): 01-02 Batch: WG489574-1					
Acenaphthene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	62		30-130
4-Terphenyl-d14	72		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP PAHs by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG489574-2 WG489574-3								
Acenaphthene	75		77		40-140	3		20
Fluoranthene	94		91		40-140	3		20
Naphthalene	78		77		40-140	1		20
Benzo(a)anthracene	118		109		40-140	8		20
Benzo(a)pyrene	89		82		40-140	8		20
Benzo(b)fluoranthene	110		105		40-140	5		20
Benzo(k)fluoranthene	93		90		40-140	3		20
Chrysene	83		79		40-140	5		20
Acenaphthylene	90		93		40-140	3		20
Anthracene	80		78		40-140	3		20
Benzo(ghi)perylene	111		102		40-140	8		20
Fluorene	77		79		40-140	3		20
Phenanthrene	89		89		40-140	0		20
Dibenzo(a,h)anthracene	119		112		40-140	6		20
Indeno(1,2,3-cd)Pyrene	93		85		40-140	9		20
Pyrene	92		88		40-140	4		20
2-Methylnaphthalene	81		83		40-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOOTT MILLS

Project Number: 911-173A

Lab Number: L1114121

Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP PAHs by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG489574-2 WG489574-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	74		82		30-130
2-Fluorobiphenyl	78		85		30-130
4-Terphenyl-d14	82		83		30-130

PCBS

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-01	Date Collected:	09/07/11 12:15
Client ID:	GEC-1	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	09/14/11 11:46
Analytical Date:	09/15/11 12:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/15/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/15/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	107		30-150
Decachlorobiphenyl	79		30-150

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-01	Date Collected:	09/07/11 12:15
Client ID:	GEC-1	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	09/14/11 11:46
Analytical Date:	09/15/11 12:44	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/15/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/15/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1254	0.433		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	107		30-150
Decachlorobiphenyl	79		30-150

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-02	Date Collected:	09/07/11 12:15
Client ID:	GEC-1 (FILTERED)	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	97,8082	Extraction Date:	09/14/11 11:46
Analytical Date:	09/15/11 13:00	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	09/15/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	09/15/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	90		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	103		30-150
Decachlorobiphenyl	121		30-150

Project Name: BOOTT MILLS

Project Number: 911-173A

Lab Number: L1114121

Report Date: 09/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082
Analytical Date: 09/15/11 14:20
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 09/14/11 11:46
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/15/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/15/11

Parameter	Result	Qualifier	Units	RL	MDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG489769-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	88		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02 Batch: WG489769-2 WG489769-3								
Aroclor 1016	77		78		40-140	1		20
Aroclor 1260	72		74		40-140	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	93		75		30-150
Decachlorobiphenyl	58		73		30-150
2,4,5,6-Tetrachloro-m-xylene	100		79		30-150
Decachlorobiphenyl	71		87		30-150

METALS

Project Name:	BOOTT MILLS	**Lab Number:**	L1114121
Project Number:	911-173A	**Report Date:**	09/26/11

SAMPLE RESULTS

Lab ID:	L1114121-01	Date Collected:	09/07/11 12:15
Client ID:	GEC-1	Date Received:	09/09/11
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab											
Hardness	120		mg/l	0.66	--	1	09/14/11 16:00	09/15/11 19:06	EPA 3005A	1,6010B	MG
MCP Total Metals - Westborough Lab											
Lead, Total	0.071		mg/l	0.010	--	1	09/13/11 16:10	09/19/11 16:22	EPA 3005A	97,6010B	MG
MCP Dissolved Metals - Westborough Lab											
Lead, Dissolved	ND		mg/l	0.010	--	1	09/13/11 16:10	09/16/11 12:00	EPA 3005A	97,6010B	AI

Project Name: BOOTT MILLS **Lab Number:** L1114121

Project Number: 911-173A **Report Date:** 09/26/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01 Batch: WG489939-1										
Hardness	ND		mg/l	0.66	--	1	09/14/11 16:00	09/15/11 18:32	1,6010B	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01 Batch: WG491575-1										
Lead, Total	ND		mg/l	0.010	--	1	09/13/11 16:10	09/19/11 15:59	97,6010B	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG491582-1										
Lead, Dissolved	ND		mg/l	0.010	--	1	09/13/11 16:10	09/16/11 10:45	97,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01 Batch: WG489939-2								
Hardness	98		-		80-120	-		
MCP Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG491575-2 WG491575-3								
Lead, Total	108		100		80-120	8		20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG491582-2 WG491582-3								
Lead, Dissolved	97		98		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01 QC Batch ID: WG489939-4 QC Sample: L1114120-01 Client ID: MS Sample												
Hardness	58	66.2	120	94		-	-		75-125	-		20

Project Name: BOOTT MILLS
Project Number: 911-173A

Lab Number: L1114121
Report Date: 09/26/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1114121-01A	Clear Vial HCl preserved	A	N/A	6	Y	Absent	MCP-8260-10(14)
L1114121-01B	Clear Vial HCl preserved	A	N/A	6	Y	Absent	MCP-8260-10(14)
L1114121-01C	Clear Vial HCl preserved	A	N/A	6	Y	Absent	MCP-8260-10(14)
L1114121-01D	Clear Vial HCl preserved	A	N/A	6	Y	Absent	SUB-VPH(14)
L1114121-01E	Clear Vial HCl preserved	A	N/A	6	Y	Absent	SUB-VPH(14)
L1114121-01F	Clear Vial HCl preserved	A	N/A	6	Y	Absent	SUB-VPH(14)
L1114121-01G	Plastic 250ml HNO3 preserved	A	<2	6	Y	Absent	HARDT(180),MCP-PB-6010T-10(180)
L1114121-01H	Plastic 250ml HNO3 preserved	A	<2	6	Y	Absent	MCP-PB-6010S-10(180)
L1114121-01I	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-8082-10(365)
L1114121-01J	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-8082-10(365)
L1114121-01K	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-PAHSIM-10(7)
L1114121-01L	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-PAHSIM-10(7)
L1114121-02A	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-8082-10(365)
L1114121-02B	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-8082-10(365)
L1114121-02C	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-PAHSIM-10(7)
L1114121-02D	Amber 1000ml unpreserved	A	7	6	Y	Absent	MCP-PAHSIM-10(7)

*Values in parentheses indicate holding time in days

Project Name:	BOOTT MILLS	**Lab Number:**	L1114121
Project Number:	911-173A	**Report Date:**	09/26/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	BOOTT MILLS	**Lab Number:**	L1114121
Project Number:	911-173A	**Report Date:**	09/26/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: BOOTT MILLS **Lab Number:** L1114121
Project Number: 911-173A **Report Date:** 09/26/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 19, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1114121

GROUNDWATER ANALYTICAL

228 Main Street, PO Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 - Fax (508) 759-4475
www.groundwateranalytical.com

CHAIN OF CUSTODY RECORD & WORK ORDER

Project Name: Boott Mills
Project Number: 911-173A
Sampler Name: Matt Wilson
Project Manager: Sam Butcher
E-mail Address: MWilson@goldmanenvironmental.com

Firm: GEC
Address: 60 Brooks Dr.
City/State/Zip: Braintree MA, 02184
Telephone: 781-356-9140
Fax:

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND
- ☐ 10 Business Days
- ☒ 5 Business Days
- ☐ RUSH (RAN-_____)

BILLING INFORMATION
PO No. 911-173A

ANALYSIS REQUEST

Sampling Information: DATE	TIME	SAMPLE IDENTIFICATION	Matrix: Groundwater	Drinking Water	Wastewater	Soil	Other Solid	Oil/Organic Solid	Other	Type: Composite	Grab	Container(s): 40mL VOA Vial	60 mL/ 2 oz. Glass	120 mL/ 4ox Amber Glass	250 mL/ 8 oz Glass	500 mL/ 16 oz Glass	1L/ 32 oz Amber Glass	250 mL/ 8 oz. Plastic	500 mL/ 16 oz Plastic	1 L/ 32 oz Plastic	120 mL Sterile Plastic	Filtered: YES	NO	LAB NUMBER (lab use only)	VOC - 8260B	VPH - Carbon Ranges only	Total PCBs - 8082	Dissolved PCBs - 8082	Total PAHs - 8270C	Dissolved PAHs - 8270C	Total Pb	Dissolved Pb	Hardness
9-7-11	1215	GEC-1	X								X	6											X		X	X							
												~~6~~					4						X				X	~~X~~	X	~~X~~			
																		1					X								X		X
																	4					X					X		X				
																		1				X									X		

REMARKS / SPECIAL INSTRUCTIONS
- ☒ MCP Data Certification Required
- ☐ MCP Drinking Water Sample Included
- ☐ Analyze Duplicates and Trip Blanks only if positive results.

Additional Comments:

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard
☐ CT	☒ MCP GW-1/S-1
☐ ME	☐ MCP GW-1/S-2
☒ MA	☐ NY STARS
☐ NH	☐ Drinking Water
☐ NY	☐ Wastewater
☐ RI	☐ Waste Disposal
☐ VT	☐ Dredge Materials

Project Specific QA

Many regulatory programs and US EPA-approved 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 pre-arranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD, and Sample Duplicate required an additional sample aliquot.

Project Specific QA Required
☐ Sample Duplicate ☐ MS ☐ MSDS

CHAIN OF CUSTODY RECORD

Note: All samples submitted are subject to Standard Terms and Conditions

Relinquished By:	Date	Time	Received By:
Matthew Wilson	9/8	1110	GEC Refrig.
Matthew Wilson	9/8	1404	Joe Clery
Joe Clery	9/8/11	1500	[illegible]

Method of Shipment: 9/9/11 1650
☐ GWA Courier ☒ Express Mail ☐ Fed Ex ☐ Consultant Courier

Temp 3.3

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1114121

Instrument ID: Jack.i Calibration Date: 13-SEP-2011 Time: 11:44

Lab File ID: 0913A06 Init. Calib. Date(s): 04-SEP-2 04-SEP-2

Sample No: 8260 CCAL Init. Calib. Times : 13:13 17:02

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.76859	.62378	.1	19	20	
chloromethane	1.8202	1.3762	.1	24	20	F
vinyl chloride	1.0510	.83392	.1	21	20	F
bromomethane	.43747	.36875	.1	16	20	
chloroethane	.54383	.50056	.1	8	20	
trichlorofluoromethane	1.0374	.99171	.1	4	20	
ethyl ether	.31196	.27497	.05	12	20	
1,1,-dichloroethene	.56292	.47796	.1	15	20	
carbon disulfide	1.7263	1.2195	.05	29	20	F
methylene chloride	.75023	.67163	.05	10	20	
acetone	100	68.921	.1	31	20	F
trans-1,2-dichloroethene	.71515	.60978	.1	15	20	
methyl tert butyl ether	1.8091	1.5009	.1	17	20	
Ethyl-Tert-Butyl-Ether	2.8677	2.5971	.05	9	20	
Diisopropyl Ether	4.2740	3.7874	.05	11	20	
1,1-dichloroethane	1.8165	1.5553	.2	14	20	
cis-1,2-dichloroethene	.78878	.69447	.1	12	20	
2,2-dichloropropane	1.1768	1.0276	.05	13	20	
bromochloromethane	.36144	.32133	.05	11	20	
chloroform	1.4534	1.1935	.2	18	20	
carbontetrachloride	.97497	.76766	.1	21	20	F
tetrahydrofuran	.39156	.30611	.05	22	20	F
1,1,1-trichloroethane	1.2658	1.0843	.1	14	20	
Tertiary-Amyl Methyl Ether	1.6636	1.4825	.05	11	20	
1,1-dichloropropene	1.0855	.94714	.05	13	20	
2-butanone	.51345	.39681	.1	23	20	F
benzene	3.1506	2.6910	.5	15	20	
1,2-dichloroethane	1.3055	1.0885	.1	17	20	
trichloroethene	.81747	.70758	.2	13	20	
dibromomethane	.36458	.32703	.05	10	20	
1,2-dichloropropane	1.0292	.8608	.1	16	20	
bromodichloromethane	1.0955	.90684	.2	17	20	
1,4-dioxane	.00551	.00386	.05	30	20	F
cis-1,3-dichloropropene	1.0178	.73189	.2	28	20	F
toluene	2.1807	2.1234	.4	3	20	
tetrachloroethene	.96369	.90619	.2	6	20	
4-methyl-2-pentanone	.29234	.24143	.1	17	20	
trans-1,3-dichloropropene	.9808	.86744	.1	12	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1114121

Instrument ID: Jack.i Calibration Date: 13-SEP-2011 Time: 11:44

Lab File ID: 0913A06 Init. Calib. Date(s): 04-SEP-2 04-SEP-2

Sample No: 8260 CCAL Init. Calib. Times : 13:13 17:02

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.58285	.55978	.1	4	20	
chlorodibromomethane	.8441	.69084	.1	18	20	
1,3-dichloropropane	1.0968	1.0462	.05	5	20	
1,2-dibromoethane	100	93.698	.1	6	20	
2-hexanone	.80474	.79212	.1	2	20	
chlorobenzene	2.4623	2.0664	.5	16	20	
ethyl benzene	4.0120	3.5975	.1	10	20	
1,1,1,2-tetrachloroethane	.89837	.79653	.05	11	20	
p/m xylene	1.5733	1.3727	.1	13	20	
o xylene	1.5071	1.3637	.3	10	20	
styrene	2.4425	2.24	.3	8	20	
bromoform	.76716	.64423	.1	16	20	
isopropylbenzene	3.8054	3.3277	.1	13	20	
bromobenzene	1.5932	1.5307	.05	4	20	
n-propylbenzene	6.8219	6.6527	.05	2	20	
1,1,2,2,-tetrachloroethane	1.333	1.2622	.3	5	20	
2-chlorotoluene	4.9822	4.7358	.05	5	20	
1,2,3-trichloropropane	1.0590	1.0109	.05	5	20	
1,3,5-trimethybenzene	5.0961	4.8503	.05	5	20	
4-chorotoluene	4.3458	4.1799	.05	4	20	
tert-butylbenzene	4.1140	3.8300	.05	7	20	
1,2,4-trimethylbenzene	5.0928	4.7431	.05	7	20	
sec-butylbenzene	5.4892	4.9344	.05	10	20	
p-isopropyltoluene	4.5694	4.1814	.05	8	20	
1,3-dichlorobenzene	2.8651	2.6757	.6	7	20	
1,4-dichlorobenzene	2.9721	2.7534	.5	7	20	
n-butylbenzene	3.7507	3.2360	.05	14	20	
1,2-dichlorobenzene	2.7530	2.5830	.4	6	20	
1,2-dibromo-3-chloropropane	100	78.827	.05	21	20	F
hexachlorobutadiene	100	91.229	.05	9	20	
1,2,4-trichlorobenzene	1.3652	1.2154	.2	11	20	
naphthalene	3.1868	2.6633	.05	16	20	
1,2,3-trichlorobenzene	1.1276	1.0315	.05	9	20	
dibromofluoromethane	.28348	.27921	.05	2	20	
1,2-dichloroethane-d4	.36816	.36715	.05	0	20	
toluene-d8	1.1838	1.3275	.05	-12	20	
4-bromofluorobenzene	.84652	.81993	.05	3	20	

FORM VII MCP-8260-10

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

September 23, 2011

Matt Wilson
Goldman Environmental
60 Brooks Drive
Braintree, MA 02184

Project Location: Lowell, MA
Client Job Number:
Project Number: 911-173A
Laboratory Work Order Number: 11I0524

Enclosed are results of analyses for samples received by the laboratory on September 15, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

Goldman Environmental
60 Brooks Drive
Braintree, MA 02184
ATTN: Matt Wilson

REPORT DATE: 9/23/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 911-173A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11I0524

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

PROJECT LOCATION: Lowell, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
GEC-2	11I0524-01	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
GEC-6	11I0524-02	Ground Water		MADEP-VPH-04-1.1	
				SM18-20 2340B	
				SW-846 6010C	
				SW-846 8082A	
				SW-846 8260C	
GEC-7	11I0524-03	Ground Water		SW-846 8082A	
				SW-846 8260C	
B-6A 0-2	11I0524-04	Soil		SM 2540G	
				SW-846 6010C	
B-6B 0-4	11I0524-05	Soil		SM 2540G	
				SW-846 6010C	
B-6C 0-4	11I0524-06	Soil		SM 2540G	
				SW-846 6010C	
GEC-2 (Dissolved)	11I0524-07	Ground Water		SW-846 8082A	
				SW-846 8270D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only lead was requested and reported.

For method 8270, only PAH compounds were requested and reported.

For method MA VPH, only carbon ranges were requested and reported.

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SM18-20 2340B

Qualifications:

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

Analyte & Samples(s) Qualified:

Hardness

11I0524-02[GEC-6]

SW-846 8260C

Qualifications:

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

Analyte & Samples(s) Qualified:

Bromomethane, Chloromethane

B037090-BS1

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

Analyte & Samples(s) Qualified:

2-Butanone (MEK), Bromomethane, Chloromethane

11I0524-01[GEC-2], 11I0524-02[GEC-6], 11I0524-03[GEC-7], B037090-BLK1, B037090-BS1, B037090-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

Carbon Disulfide, Methylene Chloride

11I0524-01[GEC-2], 11I0524-02[GEC-6], 11I0524-03[GEC-7]

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

11I0524-01[GEC-2], 11I0524-02[GEC-6], 11I0524-03[GEC-7], B037090-BLK1, B037090-BS1, B037090-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B037090-BS1, B037090-BSD1

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MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

SW-846 8260C

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2

Sample ID: 11I0524-01 | Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water | Stop Date/Time: 9/12/2011 3:05:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 17:40	TJR
2-Butanone (MEK)	ND	10	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 17:40	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Chloromethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 17:40	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/19/11	9/19/11 17:40	TJR

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2

Sample ID: 11I0524-01
Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 3:05:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/19/11	9/19/11 17:40	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 17:40	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	70-130		9/19/11 17:40
Toluene-d8	102	70-130		9/19/11 17:40
4-Bromofluorobenzene	97.4	70-130		9/19/11 17:40

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

Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2

Sample ID: 11I0524-01 | Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water | Stop Date/Time: 9/12/2011 3:05:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/21/11 21:53	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	98.2	30-130		9/21/11 21:53
2-Fluorobiphenyl	90.1	30-130		9/21/11 21:53
Terphenyl-d14	66.1	30-130		9/21/11 21:53

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2

Sample ID: 11I0524-01
Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 3:05:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	60.0	30-150		9/19/11 18:16
Decachlorobiphenyl [2]	56.2	30-150		9/19/11 18:16
Tetrachloro-m-xylene [1]	84.7	30-150		9/19/11 18:16
Tetrachloro-m-xylene [2]	83.1	30-150		9/19/11 18:16

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2

Sample ID: 11I0524-01
Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 3:05:00PM

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/22/11 0:19	TJR
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/22/11 0:19	TJR
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/22/11 0:19	TJR
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/22/11 0:19	TJR
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/22/11 0:19	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	115	70-130		9/22/11 0:19
2,5-Dibromotoluene (PID)	96.7	70-130		9/22/11 0:19

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

Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-6

Sample ID: 11I0524-02 | Start Date/Time: 9/12/2011 3:39:00PM

Sample Matrix: Ground Water | Stop Date/Time: 9/12/2011 4:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 18:06	TJR
2-Butanone (MEK)	ND	10	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 18:06	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Chloromethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 18:06	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/19/11	9/19/11 18:06	TJR

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-6

Sample ID: 11I0524-02
Start Date/Time: 9/12/2011 3:39:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 4:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/19/11	9/19/11 18:06	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:06	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	70-130		9/19/11 18:06
Toluene-d8	103	70-130		9/19/11 18:06
4-Bromofluorobenzene	98.4	70-130		9/19/11 18:06

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-6

Sample ID: 11I0524-02
Start Date/Time: 9/12/2011 3:39:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 4:15:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	59.2	30-150		9/19/11 18:30
Decachlorobiphenyl [2]	55.4	30-150		9/19/11 18:30
Tetrachloro-m-xylene [1]	91.6	30-150		9/19/11 18:30
Tetrachloro-m-xylene [2]	87.1	30-150		9/19/11 18:30

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-6

Sample ID: 11I0524-02
Start Date/Time: 9/12/2011 3:39:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 4:15:00PM

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/21/11 23:31	TJR
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/21/11 23:31	TJR
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/21/11 23:31	TJR
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/21/11 23:31	TJR
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	9/21/11	9/21/11 23:31	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	110	70-130		9/21/11 23:31
2,5-Dibromotoluene (PID)	89.3	70-130		9/21/11 23:31

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-6

Sample ID: 11I0524-02
Start Date/Time: 9/12/2011 3:39:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 4:15:00PM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	9/19/11	9/20/11 1:02	OP
Hardness	230	3.0	mg/L	1	L-07	SM18-20 2340B	9/22/11	9/22/11 11:10	OP

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-6

Sample ID: 11I0524-02
Start Date/Time: 9/12/2011 3:39:00PM

Sample Matrix: Ground Water
Stop Date/Time: 9/12/2011 4:15:00PM

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	9/20/11	9/21/11 17:37	OP

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Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-7

Sample ID: 11I0524-03 | Start Date/Time: 9/13/2011 10:15:00AM

Sample Matrix: Ground Water | Stop Date/Time: 9/13/2011 3:17:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	11	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 18:33	TJR
2-Butanone (MEK)	ND	10	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 18:33	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Chloromethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	9/19/11	9/19/11 18:33	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/19/11	9/19/11 18:33	TJR

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Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-7

Sample ID: 11I0524-03
Start Date/Time: 9/13/2011 10:15:00AM

Sample Matrix: Ground Water
Stop Date/Time: 9/13/2011 3:17:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/19/11	9/19/11 18:33	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/19/11	9/19/11 18:33	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	70-130		9/19/11 18:33
Toluene-d8	101	70-130		9/19/11 18:33
4-Bromofluorobenzene	96.6	70-130		9/19/11 18:33

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

Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-7

Sample ID: 11I0524-03 | Start Date/Time: 9/13/2011 10:15:00AM

Sample Matrix: Ground Water | Stop Date/Time: 9/13/2011 3:17:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 18:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	44.4	30-150		9/19/11 18:43
Decachlorobiphenyl [2]	39.3	30-150		9/19/11 18:43
Tetrachloro-m-xylene [1]	96.6	30-150		9/19/11 18:43
Tetrachloro-m-xylene [2]	81.3	30-150		9/19/11 18:43

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: B-6A 0-2
Sampled: 9/13/2011 13:55

Sample ID: 11I0524-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	930	0.79	mg/Kg dry	1		SW-846 6010C	9/21/11	9/22/11 15:21	OP

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Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: B-6A 0-2
Sampled: 9/13/2011 13:55

Sample ID: 11I0524-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	9/22/11	9/22/11 19:01	VAF

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: B-6B 0-4
Sampled: 9/13/2011 14:10

Sample ID: 11I0524-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	310	0.86	mg/Kg dry	1		SW-846 6010C	9/21/11	9/22/11 15:26	OP

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: B-6B 0-4
Sampled: 9/13/2011 14:10

Sample ID: 11I0524-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	9/22/11	9/22/11 19:01	VAF

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: B-6C 0-4
Sampled: 9/13/2011 14:21

Sample ID: 11I0524-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	390	1.1	mg/Kg dry	1		SW-846 6010C	9/21/11	9/22/11 15:31	OP

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: B-6C 0-4
Sampled: 9/13/2011 14:21

Sample ID: 11I0524-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.1		% Wt	1		SM 2540G	9/22/11	9/22/11 19:01	VAF

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Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2 (Dissolved)

Sample ID: 11I0524-07 | Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water | Stop Date/Time: 9/12/2011 3:05:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/19/11	9/20/11 12:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	82.9	30-130		9/20/11 12:33
2-Fluorobiphenyl	82.2	30-130		9/20/11 12:33
Terphenyl-d14	71.7	30-130		9/20/11 12:33

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

Project Location: Lowell, MA | Sample Description: | Work Order: 11I0524

Date Received: 9/15/2011

Field Sample #: GEC-2 (Dissolved)

Sample ID: 11I0524-07 | Start Date/Time: 9/12/2011 2:25:00PM

Sample Matrix: Ground Water | Stop Date/Time: 9/12/2011 3:05:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/17/11	9/19/11 13:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.0	30-150		9/19/11 13:19
Decachlorobiphenyl [2]	81.7	30-150		9/19/11 13:19
Tetrachloro-m-xylene [1]	80.7	30-150		9/19/11 13:19
Tetrachloro-m-xylene [2]	76.2	30-150		9/19/11 13:19

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

Sample Extraction Data

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-01 [GEC-2]	B037735	5	5.00	09/21/11
11I0524-02 [GEC-6]	B037735	5	5.00	09/21/11

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11I0524-04 [B-6A 0-2]	B037727	09/22/11
11I0524-05 [B-6B 0-4]	B037727	09/22/11
11I0524-06 [B-6C 0-4]	B037727	09/22/11

Prep Method: SW-846 3005A-SM18-20 2340B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-02 [GEC-6]	B037737	50.0	50.0	09/22/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11I0524-04 [B-6A 0-2]	B037677	1.07	50.0	09/21/11
11I0524-05 [B-6B 0-4]	B037677	1.03	50.0	09/21/11
11I0524-06 [B-6C 0-4]	B037677	0.997	50.0	09/21/11

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-02 [GEC-6]	B037468	50.0	50.0	09/19/11

Prep Method: SW-846 3005A Dissolved-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-02 [GEC-6]	B037574	50.0	50.0	09/20/11

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-01 [GEC-2]	B037442	1000	10.0	09/17/11
11I0524-02 [GEC-6]	B037442	800	8.00	09/17/11
11I0524-03 [GEC-7]	B037442	500	5.00	09/17/11
11I0524-07 [GEC-2 (Dissolved)]	B037442	1000	10.0	09/17/11

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-01 [GEC-2]	B037090	5	5.00	09/19/11
11I0524-02 [GEC-6]	B037090	5	5.00	09/19/11
11I0524-03 [GEC-7]	B037090	5	5.00	09/19/11

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0524-01 [GEC-2]	B037451	1000	1.00	09/19/11
11I0524-07 [GEC-2 (Dissolved)]	B037451	1000	1.00	09/19/11

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037090 - SW-846 5030B										
Blank (B037090-BLK1)				Prepared & Analyzed: 09/19/11						
Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05
2-Butanone (MEK)	ND	10	µg/L							R-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							R-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037090 - SW-846 5030B										
Blank (B037090-BLK1)				Prepared & Analyzed: 09/19/11						
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.3	70-130			
LCS (B037090-BS1)				Prepared & Analyzed: 09/19/11						
Acetone	103	10	µg/L	100		103	40-160			†
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130			
Benzene	11.3	1.0	µg/L	10.0		113	70-130			
Bromobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130			
Bromodichloromethane	10.5	1.0	µg/L	10.0		105	70-130			
Bromoform	10.6	1.0	µg/L	10.0		106	70-130			
Bromomethane	5.98	2.0	µg/L	10.0		59.8	40-160			L-14, R-05, V-20 †
2-Butanone (MEK)	90.9	10	µg/L	100		90.9	40-160			R-05 †
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.14	0.50	µg/L	10.0		91.4	70-130			
Carbon Disulfide	12.8	5.0	µg/L	10.0		128	70-130			
Carbon Tetrachloride	11.4	1.0	µg/L	10.0		114	70-130			
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130			
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130			
Chloroform	10.9	2.0	µg/L	10.0		109	70-130			
Chloromethane	5.83	2.0	µg/L	10.0		58.3	40-160			L-14, R-05 †
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.99	2.0	µg/L	10.0		89.9	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130			
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B037090 - SW-846 5030B											
LCS (B037090-BS1)				Prepared & Analyzed: 09/19/11							
Dichlorodifluoromethane (Freon 12)	7.79	2.0	µg/L	10.0		77.9	40-160				†
1,1-Dichloroethane	11.5	1.0	µg/L	10.0		115	70-130				
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130				
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130				
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130				
trans-1,2-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130				
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	70-130				
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130				
2,2-Dichloropropane	11.9	1.0	µg/L	10.0		119	70-130				
1,1-Dichloropropene	11.5	2.0	µg/L	10.0		115	70-130				
cis-1,3-Dichloropropene	11.0	0.40	µg/L	10.0		110	70-130				
trans-1,3-Dichloropropene	11.8	0.40	µg/L	10.0		118	70-130				
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130				
Diisopropyl Ether (DIPE)	9.98	0.50	µg/L	10.0		99.8	70-130				
1,4-Dioxane	84.1	50	µg/L	100		84.1	40-160			V-16	†
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130				
Hexachlorobutadiene	11.2	0.50	µg/L	10.0		112	70-130				
2-Hexanone (MBK)	83.4	10	µg/L	100		83.4	40-160				†
Isopropylbenzene (Cumene)	13.0	1.0	µg/L	10.0		130	70-130				
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115	70-130				
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130				
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130				
4-Methyl-2-pentanone (MIBK)	81.2	10	µg/L	100		81.2	40-160				†
Naphthalene	9.41	2.0	µg/L	10.0		94.1	70-130				
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130				
Styrene	11.0	1.0	µg/L	10.0		110	70-130				
1,1,1,2-Tetrachloroethane	11.7	1.0	µg/L	10.0		117	70-130				
1,1,2,2-Tetrachloroethane	9.76	0.50	µg/L	10.0		97.6	70-130				
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116	70-130				
Tetrahydrofuran	9.76	2.0	µg/L	10.0		97.6	70-130				
Toluene	11.1	1.0	µg/L	10.0		111	70-130				
1,2,3-Trichlorobenzene	10.4	2.0	µg/L	10.0		104	70-130				
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130				
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130				
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130				
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
Trichlorofluoromethane (Freon 11)	9.68	2.0	µg/L	10.0		96.8	70-130				
1,2,3-Trichloropropane	8.77	2.0	µg/L	10.0		87.7	70-130				
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130				
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
Vinyl Chloride	8.39	2.0	µg/L	10.0		83.9	70-130				
m+p Xylene	22.7	2.0	µg/L	20.0		113	70-130				
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B037090 - SW-846 5030B												
LCS Dup (B037090-BSD1)				Prepared & Analyzed: 09/19/11								
Acetone	124	10	µg/L	100		124	40-160	19.1		20		†
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130	4.45		20		
Benzene	11.3	1.0	µg/L	10.0		113	70-130	0.443		20		
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.568		20		
Bromochloromethane	11.7	1.0	µg/L	10.0		117	70-130	1.38		20		
Bromodichloromethane	10.4	1.0	µg/L	10.0		104	70-130	0.287		20		
Bromoform	11.2	1.0	µg/L	10.0		112	70-130	5.43		20		
Bromomethane	7.51	2.0	µg/L	10.0		75.1	40-160	**22.7**	*	20	R-05, V-20	†
2-Butanone (MEK)	112	10	µg/L	100		112	40-160	**20.4**	*	20	R-05	†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.10		20		
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	2.22		20		
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	0.899		20		
tert-Butyl Ethyl Ether (TBEE)	9.43	0.50	µg/L	10.0		94.3	70-130	3.12		20		
Carbon Disulfide	12.2	5.0	µg/L	10.0		122	70-130	4.72		20		
Carbon Tetrachloride	11.3	1.0	µg/L	10.0		113	70-130	0.878		20		
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	1.15		20		
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	0.00		20		
Chloroethane	11.1	2.0	µg/L	10.0		111	70-130	8.28		20		
Chloroform	11.0	2.0	µg/L	10.0		110	70-130	0.457		20		
Chloromethane	8.30	2.0	µg/L	10.0		83.0	40-160	**35.0**	*	20	R-05	†
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	1.00		20		
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	0.809		20		
1,2-Dibromo-3-chloropropane (DBCP)	10.2	2.0	µg/L	10.0		102	70-130	12.2		20		
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130	5.38		20		
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130	4.98		20		
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.62		20		
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.26		20		
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.25		20		
Dichlorodifluoromethane (Freon 12)	7.62	2.0	µg/L	10.0		76.2	40-160	2.21		20		†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130	1.22		20		
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.497		20		
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	2.72		20		
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.932		20		
trans-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	0.598		20		
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130	1.18		20		
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130	1.60		20		
2,2-Dichloropropane	11.8	1.0	µg/L	10.0		118	70-130	0.930		20		
1,1-Dichloropropene	11.2	2.0	µg/L	10.0		112	70-130	2.65		20		
cis-1,3-Dichloropropene	11.0	0.40	µg/L	10.0		110	70-130	0.00		20		
trans-1,3-Dichloropropene	11.8	0.40	µg/L	10.0		118	70-130	0.0851		20		
Diethyl Ether	10.7	2.0	µg/L	10.0		107	70-130	1.89		20		
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103	70-130	2.96		20		
1,4-Dioxane	99.4	50	µg/L	100		99.4	40-160	16.7		20	V-16	†
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	1.99		20		
Hexachlorobutadiene	11.2	0.50	µg/L	10.0		112	70-130	0.0894		20		
2-Hexanone (MBK)	97.3	10	µg/L	100		97.3	40-160	15.4		20		†
Isopropylbenzene (Cumene)	12.6	1.0	µg/L	10.0		126	70-130	3.37		20		
p-Isopropyltoluene (p-Cymene)	11.4	1.0	µg/L	10.0		114	70-130	0.785		20		
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.0		112	70-130	5.91		20		
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130	5.95		20		
4-Methyl-2-pentanone (MIBK)	93.3	10	µg/L	100		93.3	40-160	13.8		20		†
Naphthalene	10.6	2.0	µg/L	10.0		106	70-130	11.6		20		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037090 - SW-846 5030B										
LCS Dup (B037090-BSD1)				Prepared & Analyzed: 09/19/11						
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.86	20	
Styrene	10.8	1.0	µg/L	10.0		108	70-130	2.57	20	
1,1,1,2-Tetrachloroethane	11.5	1.0	µg/L	10.0		115	70-130	1.63	20	
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130	9.75	20	
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130	2.35	20	
Tetrahydrofuran	11.5	2.0	µg/L	10.0		115	70-130	16.4	20	
Toluene	11.0	1.0	µg/L	10.0		110	70-130	1.63	20	
1,2,3-Trichlorobenzene	11.0	2.0	µg/L	10.0		110	70-130	5.78	20	
1,2,4-Trichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	2.41	20	
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	1.22	20	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	3.45	20	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	2.82	20	
Trichlorofluoromethane (Freon 11)	9.59	2.0	µg/L	10.0		95.9	70-130	0.934	20	
1,2,3-Trichloropropane	9.77	2.0	µg/L	10.0		97.7	70-130	10.8	20	
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.643	20	
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	1.13	20	
Vinyl Chloride	8.37	2.0	µg/L	10.0		83.7	70-130	0.239	20	
m+p Xylene	22.4	2.0	µg/L	20.0		112	70-130	1.42	20	
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130	2.35	20	
Surrogate: 1,2-Dichloroethane-d4	*26.0*		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037451 - SW-846 3510C										
Blank (B037451-BLK1)				Prepared: 09/19/11 Analyzed: 09/20/11						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Surrogate: Nitrobenzene-d5	*89.7*		µg/L	100		89.7	30-130			
Surrogate: 2-Fluorobiphenyl	*89.0*		µg/L	100		89.0	30-130			
Surrogate: Terphenyl-d14	*85.3*		µg/L	100		85.3	30-130			
LCS (B037451-BS1)				Prepared: 09/19/11 Analyzed: 09/20/11						
Acenaphthene	95.6	5.0	µg/L	100		95.6	40-140			
Acenaphthylene	86.9	5.0	µg/L	100		86.9	40-140			
Anthracene	106	5.0	µg/L	100		106	40-140			
Benzo(a)anthracene	98.0	5.0	µg/L	100		98.0	40-140			
Benzo(a)pyrene	104	5.0	µg/L	100		104	40-140			
Benzo(b)fluoranthene	106	5.0	µg/L	100		106	40-140			
Benzo(g,h,i)perylene	65.2	5.0	µg/L	100		65.2	40-140			
Benzo(k)fluoranthene	99.5	5.0	µg/L	100		99.5	40-140			
Chrysene	104	5.0	µg/L	100		104	40-140			
Dibenz(a,h)anthracene	73.3	5.0	µg/L	100		73.3	40-140			
Fluoranthene	112	5.0	µg/L	100		112	40-140			
Fluorene	107	5.0	µg/L	100		107	40-140			
Indeno(1,2,3-cd)pyrene	66.2	5.0	µg/L	100		66.2	40-140			
2-Methylnaphthalene	82.9	5.0	µg/L	100		82.9	40-140			
Naphthalene	76.0	5.0	µg/L	100		76.0	40-140			
Phenanthrene	102	5.0	µg/L	100		102	40-140			
Pyrene	102	5.0	µg/L	100		102	40-140			
Surrogate: Nitrobenzene-d5	*91.1*		µg/L	100		91.1	30-130			
Surrogate: 2-Fluorobiphenyl	*93.0*		µg/L	100		93.0	30-130			
Surrogate: Terphenyl-d14	*111*		µg/L	100		111	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037451 - SW-846 3510C										
LCS Dup (B037451-BSD1)				Prepared: 09/19/11 Analyzed: 09/20/11						
Acenaphthene	92.9	5.0	µg/L	100		92.9	40-140	2.82	20	
Acenaphthylene	83.5	5.0	µg/L	100		83.5	40-140	3.98	20	
Anthracene	102	5.0	µg/L	100		102	40-140	3.66	20	
Benzo(a)anthracene	96.0	5.0	µg/L	100		96.0	40-140	2.03	20	
Benzo(a)pyrene	100	5.0	µg/L	100		100	40-140	3.74	20	
Benzo(b)fluoranthene	96.6	5.0	µg/L	100		96.6	40-140	9.34	20	
Benzo(g,h,i)perylene	70.6	5.0	µg/L	100		70.6	40-140	8.01	20	
Benzo(k)fluoranthene	98.9	5.0	µg/L	100		98.9	40-140	0.675	20	
Chrysene	101	5.0	µg/L	100		101	40-140	3.05	20	
Dibenz(a,h)anthracene	76.2	5.0	µg/L	100		76.2	40-140	3.89	20	
Fluoranthene	108	5.0	µg/L	100		108	40-140	3.64	20	
Fluorene	104	5.0	µg/L	100		104	40-140	3.10	20	
Indeno(1,2,3-cd)pyrene	71.9	5.0	µg/L	100		71.9	40-140	8.28	50	‡
2-Methylnaphthalene	80.1	5.0	µg/L	100		80.1	40-140	3.45	20	
Naphthalene	74.6	5.0	µg/L	100		74.6	40-140	1.90	20	
Phenanthrene	99.6	5.0	µg/L	100		99.6	40-140	2.31	20	
Pyrene	98.2	5.0	µg/L	100		98.2	40-140	4.19	20	
Surrogate: Nitrobenzene-d5	*92.2*		µg/L	100		92.2	30-130			
Surrogate: 2-Fluorobiphenyl	*92.9*		µg/L	100		92.9	30-130			
Surrogate: Terphenyl-d14	*112*		µg/L	100		112	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037442 - SW-846 3510C										
Blank (B037442-BLK1)				Prepared: 09/17/11 Analyzed: 09/19/11						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.96*		µg/L	2.00		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.86*		µg/L	2.00		92.8	30-150			
Surrogate: Tetrachloro-m-xylene	*2.16*		µg/L	2.00		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.00*		µg/L	2.00		100	30-150			
LCS (B037442-BS1)				Prepared: 09/17/11 Analyzed: 09/19/11						
Aroclor-1016	0.50	0.20	µg/L	0.500		101	40-140			
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		111	40-140			
Aroclor-1260	0.59	0.20	µg/L	0.500		119	40-140			
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		111	40-140			
Surrogate: Decachlorobiphenyl	*2.24*		µg/L	2.00		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.11*		µg/L	2.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*2.47*		µg/L	2.00		124	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.25*		µg/L	2.00		112	30-150			
LCS Dup (B037442-BSD1)				Prepared: 09/17/11 Analyzed: 09/19/11						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	40-140	7.19	20	
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		110	40-140	0.830	20	
Aroclor-1260	0.59	0.20	µg/L	0.500		118	40-140	0.388	20	
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		111	40-140	0.0361	20	
Surrogate: Decachlorobiphenyl	*2.22*		µg/L	2.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.08*		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*2.42*		µg/L	2.00		121	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.20*		µg/L	2.00		110	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037735 - MA VPH										
Blank (B037735-BLK1)				Prepared & Analyzed: 09/21/11						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*37.8*		µg/L	40.0		94.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*32.4*		µg/L	40.0		81.0	70-130			
LCS (B037735-BS1)				Prepared & Analyzed: 09/21/11						
Benzene	88.1	1.0	µg/L	100		88.1	70-130			
Butylcyclohexane	93.1	1.0	µg/L	100		93.1	70-130			
Decane	109	1.0	µg/L	100		109	70-130			
Ethylbenzene	89.7	1.0	µg/L	100		89.7	70-130			
Methyl tert-Butyl Ether (MTBE)	90.3	1.0	µg/L	100		90.3	70-130			
2-Methylpentane	105	1.0	µg/L	100		105	70-130			
Naphthalene	89.0	5.0	µg/L	100		89.0	70-130			
Nonane	93.5	1.0	µg/L	100		93.5	70-130			
Pentane	108	1.0	µg/L	100		108	70-130			
Toluene	88.1	1.0	µg/L	100		88.1	70-130			
1,2,4-Trimethylbenzene	87.6	1.0	µg/L	100		87.6	70-130			
2,2,4-Trimethylpentane	97.0	1.0	µg/L	100		97.0	70-130			
m+p Xylene	182	2.0	µg/L	200		91.0	70-130			
o-Xylene	90.2	1.0	µg/L	100		90.2	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*41.5*		µg/L	40.0		104	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*33.8*		µg/L	40.0		84.6	70-130			
LCS Dup (B037735-BSD1)				Prepared & Analyzed: 09/21/11						
Benzene	85.6	1.0	µg/L	100		85.6	70-130	2.91	25	
Butylcyclohexane	89.4	1.0	µg/L	100		89.4	70-130	4.15	25	
Decane	106	1.0	µg/L	100		106	70-130	3.21	25	
Ethylbenzene	86.9	1.0	µg/L	100		86.9	70-130	3.11	25	
Methyl tert-Butyl Ether (MTBE)	89.6	1.0	µg/L	100		89.6	70-130	0.781	25	
2-Methylpentane	101	1.0	µg/L	100		101	70-130	4.67	25	
Naphthalene	89.1	5.0	µg/L	100		89.1	70-130	0.0775	25	
Nonane	88.3	1.0	µg/L	100		88.3	70-130	5.76	25	
Pentane	99.6	1.0	µg/L	100		99.6	70-130	8.54	25	
Toluene	85.7	1.0	µg/L	100		85.7	70-130	2.80	25	
1,2,4-Trimethylbenzene	85.1	1.0	µg/L	100		85.1	70-130	2.90	25	
2,2,4-Trimethylpentane	92.3	1.0	µg/L	100		92.3	70-130	4.95	25	
m+p Xylene	177	2.0	µg/L	200		88.3	70-130	2.98	25	
o-Xylene	87.9	1.0	µg/L	100		87.9	70-130	2.67	25	
Surrogate: 2,5-Dibromotoluene (FID)	*46.0*		µg/L	40.0		115	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*33.5*		µg/L	40.0		83.8	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037468 - SW-846 3005A										
Blank (B037468-BLK1)				Prepared & Analyzed: 09/19/11						
Lead	ND	0.010	mg/L							
LCS (B037468-BS1)				Prepared & Analyzed: 09/19/11						
Lead	0.491	0.010	mg/L	0.500		98.1	80-120			
LCS Dup (B037468-BSD1)				Prepared & Analyzed: 09/19/11						
Lead	0.485	0.010	mg/L	0.500		97.1	80-120	1.05	20	
Batch B037677 - SW-846 3050B										
Blank (B037677-BLK1)				Prepared: 09/21/11 Analyzed: 09/22/11						
Lead	ND	0.75	mg/Kg wet							
LCS (B037677-BS1)				Prepared: 09/21/11 Analyzed: 09/22/11						
Lead	63.9	1.5	mg/Kg wet	76.2		83.9	78.9-121.1			
LCS (B037677-BS2)				Prepared: 09/21/11 Analyzed: 09/22/11						
Lead	0.821	0.82	mg/Kg wet	0.815		101	80-120			
LCS Dup (B037677-BSD1)				Prepared: 09/21/11 Analyzed: 09/22/11						
Lead	66.2	1.6	mg/Kg wet	76.2		86.8	78.9-121.1	3.49	30	
Batch B037737 - SW-846 3005A										
Blank (B037737-BLK1)				Prepared & Analyzed: 09/22/11						
Hardness	ND	3.0	mg/L							

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037574 - SW-846 3005A Dissolved										
Blank (B037574-BLK1)				Prepared: 09/20/11	Analyzed: 09/21/11					
Lead	ND	0.010	mg/L							
LCS (B037574-BS1)				Prepared: 09/20/11	Analyzed: 09/21/11					
Lead	0.519	0.010	mg/L	0.500		104	80-120			
LCS Dup (B037574-BSD1)				Prepared: 09/20/11	Analyzed: 09/21/11					
Lead	0.511	0.010	mg/L	0.500		102	80-120	1.43	20	
Duplicate (B037574-DUP1)		**Source: 11I0524-02**		Prepared: 09/20/11	Analyzed: 09/21/11					
Lead	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B037574-MS1)		**Source: 11I0524-02**		Prepared: 09/20/11	Analyzed: 09/21/11					
Lead	0.512	0.010	mg/L	0.500	0.00673	101	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME
C5-C8 Aliphatics	CT,NC,WA,ME
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME
C9-C12 Aliphatics	CT,NC,WA,ME
C9-C10 Aromatics	CT,NC,WA,ME
Benzene	CT,NC,WA,ME
Ethylbenzene	CT,NC,WA,ME
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME
Naphthalene	CT,NC,WA,ME
Toluene	CT,NC,WA,ME
m+p Xylene	CT,NC,WA,ME
o-Xylene	CT,NC,WA,ME
SM18-20 2340B in Water	
Hardness	CT,MA,NH,NY,RI
SW-846 6010C in Soil	
Lead	CT,NH,NY,AIHA,ME,NC
SW-846 6010C in Water	
Lead	CT,NH,NY,RI,NC,ME
Lead	CT,NH,NY,RI,NC,ME
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME,RI
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME,RI

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,RI,ME,NC
Acenaphthylene	CT,NY,NH,RI,ME,NC
Anthracene	CT,NY,NH,RI,ME,NC
Benzo(a)anthracene	CT,NY,NH,RI,ME,NC
Benzo(a)pyrene	CT,NY,NH,RI,ME,NC
Benzo(b)fluoranthene	CT,NY,NH,RI,ME,NC
Benzo(g,h,i)perylene	CT,NY,NH,RI,ME,NC
Benzo(k)fluoranthene	CT,NY,NH,RI,ME,NC
Chrysene	CT,NY,NH,RI,ME,NC
Dibenz(a,h)anthracene	CT,NY,NH,RI,ME,NC
Fluoranthene	CT,NY,NH,RI,ME,NC
Fluorene	CT,NY,NH,RI,ME,NC
Indeno(1,2,3-cd)pyrene	CT,NY,NH,RI,ME,NC
2-Methylnaphthalene	CT,NY,NH,ME,NC
Naphthalene	CT,NY,NH,RI,ME,NC
Phenanthrene	CT,NY,NH,RI,ME,NC
Pyrene	CT,NY,NH,RI,ME,NC

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

11I0524 B037442 B037451

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East longmeadow, MA 01028

~~11I0525~~

Company Name: Goldman Environmental Consultants
Address: 60 Brooks Drive
Braintree, MA 02184
Attention:
Project Location: Lowell, MA
Sampled By: Matt Wilson

Telephone: 781-356-9140
Project # 911-173A
Client PO# 911-173A

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

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

								8	6	5	2	2	2	1	1	0	3	
								H	H	I	I	I	I	N	N	N	I	
								V	V	A	A	A	A	P	P	P	A	
Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs (8260B)	VPH-Carbon Chains only	Total PCBs (8082)	Dissolved PCBs (8082)	Total PAHs (8270C)	Dissolved PAHs (8270C)	Total Pb (Hardness too)	Dissolved Pb	Hardness	Metals – Pb only	
01	GEC-2	9-12/1425	9-12/1505		X	GW	U	X	X	X	X	X	X					
02	GEC-6	9-12/1539	9-12/1615		X	GW	U	X	X	X				X	X	X		
03	GEC-7	9-13/1015	9-13/1517		X	GW	U	X		X								
	~~B-6 4-05'~~	~~9-13/~~																
04	B-6A 0-2'	9-13/1355	1355		X	S	U										X	
05	B-6B 0-4'	9-13/1410	1410		X	S	U										X	
06	B-6C 0-4'	9-13/1421	1421		X	S	U										X	
07	* GEC-2 dissolved										☆		☆					
	* from sample -01 (dissolved PCB & PAH only)																	

Comments:
All dissolved analyses filtered in the field using in-line 0.45 um filter.
JG 9/21
4.0 9/15/11 [illegible]

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

Relinquished by: (signature) [signature]	Date/Time: 9-14/1000
Received by: (signature) GEC Refrigerator	Date/Time: 9/14/1000
Relinquished by: (signature) [signature]	Date/Time: 9-15 1000
Received by: (signature) [signature]	Date/Time: 9-15-11 10:25

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5-Day

RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: GW-1
Connecticut:
Other:

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

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
◉ Field Filtered
○ Lab to Filter

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

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

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

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

[signature] 9-15-11 21:50

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Sample Receipt Checklist

CLIENT NAME: Coldman RECEIVED BY: OEC DATE: 9/15/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	11	8 oz amber/clear jar	3
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	2	Plastic Bag / Ziploc	
40 mL Vial - type listed below	15	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	11I0524
Project Location:	Lowell, MA	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11I0524-01 thru 11I0524-07

Matrices: Soil Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A (X)	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 09/23/11

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

September 22, 2011

Matt Wilson
Goldman Environmental
60 Brooks Drive
Braintree, MA 02184

Project Location: Lowell, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11I0514

Enclosed are results of analyses for samples received by the laboratory on September 15, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

Goldman Environmental
60 Brooks Drive
Braintree, MA 02184
ATTN: Matt Wilson

REPORT DATE: 9/22/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11I0514

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

PROJECT LOCATION: Lowell, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-6	11I0514-01	Soil		SM 2540G	
				SW-846 6010C	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010. only Lead analysis was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Lowell, MA
Sample Description:
Work Order: 11I0514

Date Received: 9/15/2011

Field Sample #: B-6
Sampled: 9/14/2011 15:15

Sample ID: 11I0514-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	110	1.1	mg/Kg dry	1		SW-846 6010C	9/20/11	9/20/11 22:57	OP

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Project Location: Lowell, MA
Sample Description:
Work Order: 11I0514

Date Received: 9/15/2011

Field Sample #: B-6
Sampled: 9/14/2011 15:15

Sample ID: 11I0514-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.7		% Wt	1		SM 2540G	9/22/11	9/22/11 18:31	JMG

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11I0514-01 [B-6]	B037727	09/22/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11I0514-01 [B-6]	B037560	1.02	50.0	09/20/11

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037560 - SW-846 3050B										
Blank (B037560-BLK1)				Prepared & Analyzed: 09/20/11						
Lead	ND	0.75	mg/Kg wet							
LCS (B037560-BS1)				Prepared & Analyzed: 09/20/11						
Lead	71.3	1.5	mg/Kg wet	76.2		93.6	78.9-121.1			
LCS (B037560-BS2)				Prepared & Analyzed: 09/20/11						
Lead	0.718	0.73	mg/Kg wet	0.733		98.0	80-120			
LCS Dup (B037560-BSD1)				Prepared & Analyzed: 09/20/11						
Lead	71.0	1.5	mg/Kg wet	76.2		93.2	78.9-121.1	0.475	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B037727 - % Solids										
Duplicate (B037727-DUP2)		**Source: 11I0514-01**		Prepared & Analyzed: 09/22/11						
% Solids	67.8		% Wt		67.7			0.148	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Lead	CT,NH,NY,AIHA,ME,NC

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

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NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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CHAIN OF CUSTODY RECORD

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East longmeadow, MA 01028

Page 1 of 1

11I0514

Company Name: Goldman Environmental Consultants
Address: 60 Brooks Drive
Braintree, MA 02184
Attention:
Project Location: Lowell, MA
Sampled By: Matt Wilson

Telephone: 781-356-9140
Project # 911-173A
Client PO# 911-173A

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

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

																					1		# of Containers
																					I		** Preservation
																					A		***Container Code
Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs (8260B)	VPH-Carbon Chains only	Total PCBs (8082)	Dissolved PCBs (8082)	Total PAHs (8270C)	Dissolved PAHs (8270C)	Total Pb	Dissolved Pb	Hardness	Metals - Pb only						
-01	B-6	9-14/1515			X	S	U										X						

ANALYSIS REQUESTED

Dissolved Metals
◉ Field Filtered
○ Lab to Filter

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

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

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

Comments:
All dissolved analyses filtered in the field using in-line 0.45 um filter.

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

Relinquished by: (signature)	Date/Time:
Matthew Wilson	9-14/1517
Received by: (signature) GEC Refrigerator	Date/Time: 9-14/1517
Relinquished by: (signature)	Date/Time: 9-15-10
Received by: (signature)	Date/Time: 9-15-11 10:25

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5-Day

RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: GW-1
Connecticut:
Other:

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

NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

9-15-11 21:50

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F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Goldman RECEIVED BY: CEC DATE: 9/15/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.0°

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	1
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11I0514
Project Location: Lowell, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11I0514-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 09/22/11

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

September 27, 2011

Matt Wilson
Goldman Environmental
60 Brooks Drive
Braintree, MA 02184

Project Location: Lowell, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11I0599

Enclosed are results of analyses for samples received by the laboratory on September 16, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

Goldman Environmental
60 Brooks Drive
Braintree, MA 02184
ATTN: Matt Wilson

REPORT DATE: 9/27/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11I0599

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

PROJECT LOCATION: Lowell, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-1	11I0599-01	Soil Gas		EPA TO-10A	
SV-2	11I0599-02	Soil Gas		EPA TO-10A	
FB	11I0599-03	Field Blank		EPA TO-10A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method TO-10A, only the quartz filter was extracted and analyzed, per clients request.

EPA TO-10A

Qualifications:

Surrogate recovery is outside of control limits. Sample media does not allow for re-extraction.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C], Tetrachloro-m-xylene [2C]

B037528-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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ANALYTICAL RESULTS

Project Location: Lowell, MA
Date Received: 9/16/2011
Field Sample #: SV-1
Sample ID: 11I0599-01
Sample Matrix: Soil Gas
Sampled: 9/15/2011 09:25

Sample Description/Location:
Sub Description/Location:
Flow Controller ID:
Sample Type:
Air Volume L: 834.15

Work Order: 11I0599

EPA TO-10A

Analyte	Total µg Results	Total µg RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1221 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1232 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1242 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1248 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1254 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1260 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1262 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG
Aroclor-1268 [2]	ND	0.040		ND	0.048	1	9/27/11 2:13	PJG

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [2]	80.8	60-120	9/27/11 2:13
Tetrachloro-m-xylene [2]	80.2	60-120	9/27/11 2:13

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ANALYTICAL RESULTS

Project Location: Lowell, MA
Date Received: 9/16/2011
Field Sample #: SV-2
Sample ID: 11I0599-02
Sample Matrix: Soil Gas
Sampled: 9/15/2011 09:05

Sample Description/Location:
Sub Description/Location:

Flow Controller ID:
Sample Type:
Air Volume L: 816.41

Work Order: 11I0599

EPA TO-10A

Analyte	Total µg Results	Total µg RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1221 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1232 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1242 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1248 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1254 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1260 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1262 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG
Aroclor-1268 [2]	ND	0.040		ND	0.049	1	9/27/11 2:25	PJG

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [2]	71.7	60-120	9/27/11 2:25
Tetrachloro-m-xylene [2]	74.7	60-120	9/27/11 2:25

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ANALYTICAL RESULTS

Project Location: Lowell, MA
Date Received: 9/16/2011
Field Sample #: FB
Sample ID: 11I0599-03
Sample Matrix: Field Blank
Sampled: 9/15/2011 09:26

Sample Description/Location:
Sub Description/Location:
Flow Controller ID:
Sample Type:

Work Order: 11I0599

EPA TO-10A

Analyte	Total µg Results	RL	Flag	Dilution	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1221 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1232 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1242 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1248 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1254 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1260 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1262 [2]	ND	0.040		1	9/27/11 2:38	PJG
Aroclor-1268 [2]	ND	0.040		1	9/27/11 2:38	PJG

Surrogates	% Recovery	% REC Limits	
Decachlorobiphenyl [2]	90.0	60-120	9/27/11 2:38
Tetrachloro-m-xylene [2]	98.6	60-120	9/27/11 2:38

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Sample Extraction Data

Prep Method: SW-846 3540C-EPA TO-10A

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
11I0599-01 [SV-1]	B037528	1.00	2.00	09/19/11
11I0599-02 [SV-2]	B037528	1.00	2.00	09/19/11
11I0599-03 [FB]	B037528	1.00	2.00	09/19/11

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	Total µg Results	Total µg RL	ug/m3 Results	ug/m3 RL	Spike Level Total µg	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B037528 - SW-846 3540C												
Blank (B037528-BLK1)					Prepared: 09/19/11 Analyzed: 09/27/11							
Aroclor-1016 [2C]	ND	0.040										
Aroclor-1221 [2C]	ND	0.040										
Aroclor-1232 [2C]	ND	0.040										
Aroclor-1242 [2C]	ND	0.040										
Aroclor-1248 [2C]	ND	0.040										
Aroclor-1254 [2C]	ND	0.040										
Aroclor-1260 [2C]	ND	0.040										
Aroclor-1262 [2C]	ND	0.040										
Aroclor-1268 [2C]	ND	0.040										
Surrogate: Decachlorobiphenyl [2C]	*0.161*				*0.400*		**40.3**	*	*60-120*			*S-20*
Surrogate: Tetrachloro-m-xylene [2C]	*0.111*				*0.400*		**27.8**	*	*60-120*			*S-20*
LCS (B037528-BS1)					Prepared: 09/19/11 Analyzed: 09/27/11							
Aroclor-1016 [2C]	0.10	0.040			0.100		99.8		65-125			
Aroclor-1260 [2C]	0.11	0.040			0.100		112		65-125			
Surrogate: Decachlorobiphenyl [2C]	*0.335*				*0.400*		*83.8*		*60-120*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.355*				*0.400*		*88.7*		*60-120*			
LCS Dup (B037528-BSD1)					Prepared: 09/19/11 Analyzed: 09/27/11							
Aroclor-1016 [2C]	0.12	0.040			0.100		118		65-125	16.8	40	
Aroclor-1260 [2C]	0.10	0.040			0.100		102		65-125	8.84	40	
Surrogate: Decachlorobiphenyl [2C]	*0.387*				*0.400*		*96.7*		*60-120*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.402*				*0.400*		*100*		*60-120*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-20	Surrogate recovery is outside of control limits. Sample media does not allow for re-extraction.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-10A in Air	
Aroclor-1016 [2C]	AIHA,NY
Aroclor-1221 [2C]	AIHA,NY
Aroclor-1232 [2C]	AIHA,NY
Aroclor-1242 [2C]	AIHA,NY,NJ
Aroclor-1248 [2C]	AIHA,NY
Aroclor-1254 [2C]	AIHA,NY,NJ
Aroclor-1260 [2C]	AIHA,NY,NJ
Aroclor-1262 [2C]	AIHA
Aroclor-1268 [2C]	AIHA

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

Page 1 of 1

1I0599

Company Name: GEC
Address: 60 Brooks Dr. Braintree, MA 02184
Attention: Matt Wilson
Project Location: Lowell, MA
Sampled By: Matt Wilson

Telephone: (781) 356-9140
Project # 911-173A
Client PO # 911-173A

DATA DELIVERY (check one): ☐ FAX ☒ EMAIL ☒ WEBSITE CLIENT
Fax # :
Email: mwilson@goldsmithenvironmental.com
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Please fill out completely, sign, date and retain the yellow copy for your record.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	Total Minutes Sampled	Flow Rate M³/Min. or L/Min.	Volume Liters or M³	Matrix Code*	ANALYSIS REQUESTED: TO-10A				" Hg Initial pressure	" Hg Final Pressure	" Hg Lab Receipt Pressure	Summa Canister ID	Flow Controller ID
SV-1	~~Soil vapor~~ PUF # 082911-02	P	01	9-12-11 1202	9-15-11 925	4165	0.2003	834.15	SG	X				NA	NA	NA	NA	NA
SV-2	PUF #082911-03	P	02	9-12-11 1236	9-15-11 905	4110	0.1986	816.41	SG	X				"	"	"	"	"
FB	PUF #082911-01	P	03	9-12-11 1315	9-15-11 926	4093	NA	NA	BL	X				"	"	"	"	"

Laboratory Comments:

CLIENT COMMENTS: No air was passed through the FB, as it was left out next to the SV-1 sample during testing.

Relinquished by: (signature) Matthew Wilson	Date/Time: 9-16-11 1545	
Received by: (signature) [illegible]	Date/Time: 9-16-11 1545	
Relinquished by: (signature) [illegible]	Date/Time: 9-16-11 1906	
Received by: (signature) Paula Blake	Date/Time: 9/16/11 1906	

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☒ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

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

AIHA, NELAC & WBE/DBE Certified

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: GEC RECEIVED BY: PB DATE: 9/16/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.7

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	4
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

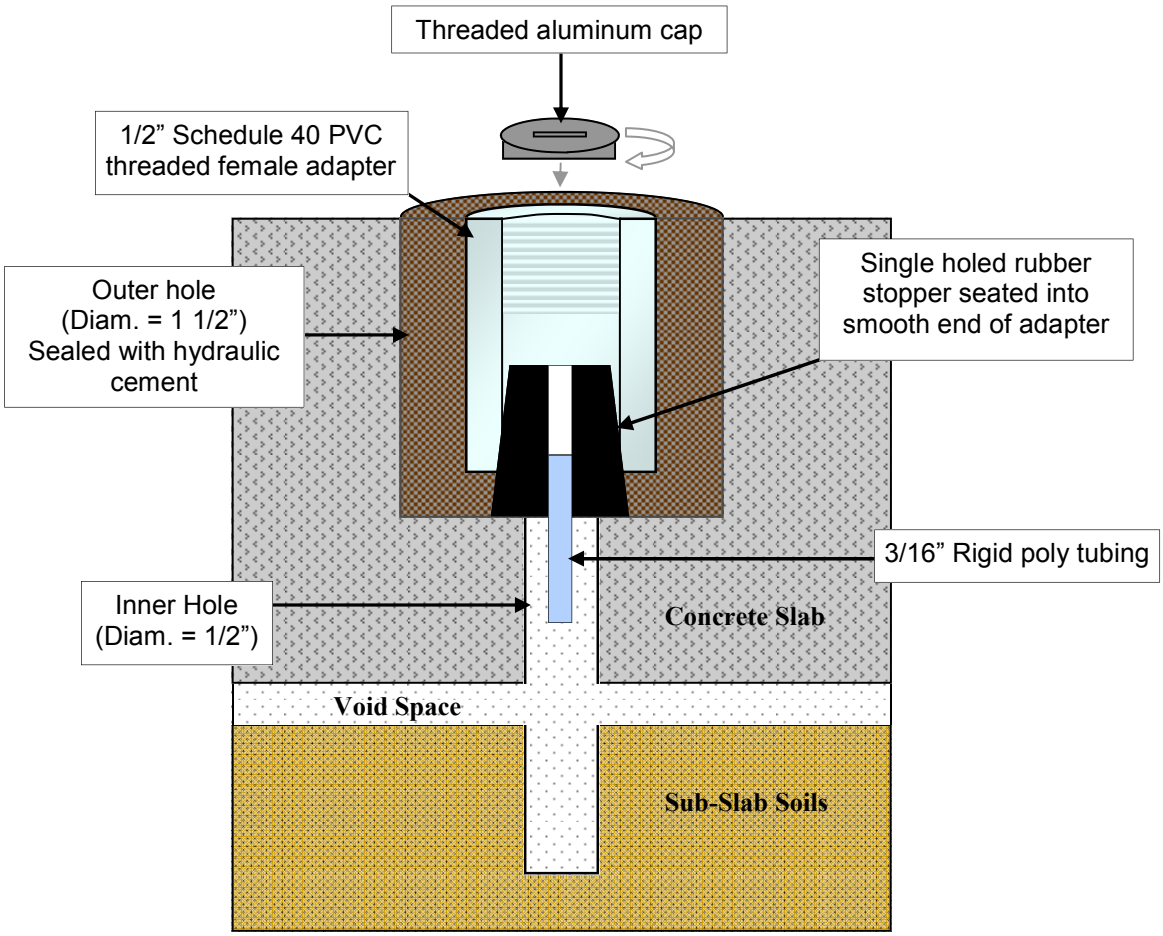
Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 M

APPENDIX F

Soil Vapor Point Profile

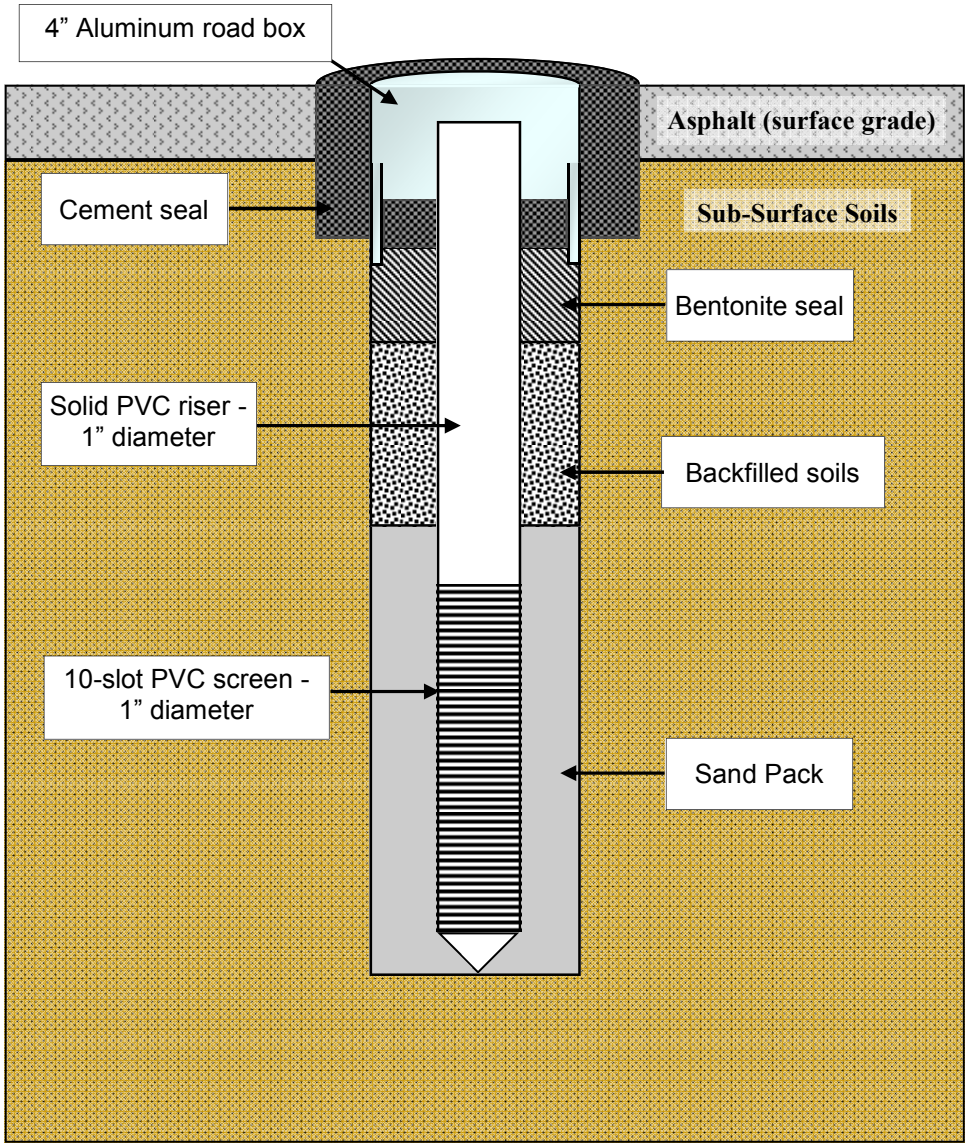


Goldman Environmental Consultants, Inc.
60 Brooks Drive
Braintree, MA 02184
(781)356-9140 Fax: (781)356-9147
www.goldmanenvironmental.com

Interior Sub-Slab Soil Vapor Point Profile

GEC SOP's

NOT TO SCALE



Goldman Environmental Consultants, Inc.
60 Brooks Drive
Braintree, MA 02184
(781)356-9140 Fax: (781)356-9147
www.goldmanenvironmental.com

Exterior Soil Vapor Point Profile

GEC SOP’s

NOT TO SCALE

APPENDIX G

SVP Field Test Data Sheet

Boott Mills - Lowell, MA
Soil Vapor Sampling Field Test Data Sheet
Adapted Compendium Method TO-10A

SV-1	PUF# - 082911-02				
Inside Mill #3 to southwest of GEC-2	Start Date:	9/12/2011		End Date:	9/15/2011
	Start Time:	12:02		End Time:	9:25
				Total Run Time:	4,165

Date	9/12/2011	9/12/2011	9/13/2011	9/14/2011	9/15/2011
Time	13:07	17:04	15:15	-	9:24
Elapsed Sample Time (min.)	65	302	1,553	-	4,164
Ambient Temp. (°C)	28.7	24.8	28.8	-	22.3
Indoor Temp. (°C)	24.5	23.4	25.1	-	24.6
Ambient Pressure (mb/hPa)	998	996	993	995	995
Indoor Pressure (mb/hPa)	998	996	993	-	995
Flow Rate (ml/min)	205	197.5	202.1	-	196.5
Adjusted Rate (ml/min)	198.6		199		

Average Flow Rate (ml/min)= 200.275
Sample Volume (L) = 834.145

SV-2	PUF# - 082911-03				
Outside to the northeast of GEC-1, adjacent the residential units.	Start Date:	9/12/2011		End Date:	9/15/2011
	Start Time:	12:36		End Time:	9:05
				Total Run Time:	4,110

Date	9/12/2011	9/12/2011	9/13/2011	9/14/2011	9/15/2011
Time	13:49	17:15	15:10	17:28	9:04
Elapsed Sample Time (min.)	72	278	1,594	3,173	4,109
Ambient Temp. (°C)	27.8	24.8	28.8	29.6	22.3
Ambient Pressure (mb/hPa)	997	996	993	995	995
Flow Rate (ml/min)	199.5	198.1	212.1	194.1	189.4
Adjusted Rate (ml/min)			197.4		

Average Flow Rate (ml/min)= 198.640
Sample Volume (L) = 816.410